

Flight Plan

STS-127/2J/A

(June 13, 2009 FRR Trajectory)

**Mission Operations Directorate
Operations Division**

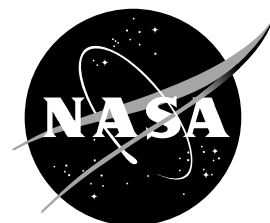
**Final
May 14, 2009**

**Launch Date: Sat. June 13, 2009 GMT
Launch Time: 164/11:14:50 GMT
June 13, 07:14:50 EDT**

For the latest working copy of the Flight Plan, visit
[http://modspops.jsc.nasa.gov/mod/DO/DO4/Joint/Web%20Pages/127_2JA.aspx?
PageView=Shared](http://modspops.jsc.nasa.gov/mod/DO/DO4/Joint/Web%20Pages/127_2JA.aspx?PageView=Shared)

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas



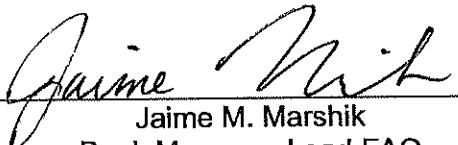
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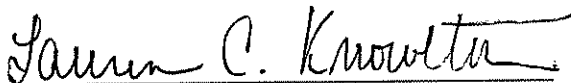
MISSION OPERATIONS DIRECTORATE


**FLIGHT PLAN
STS-127**


FINAL
May 14, 2009


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Lead Ops Planner

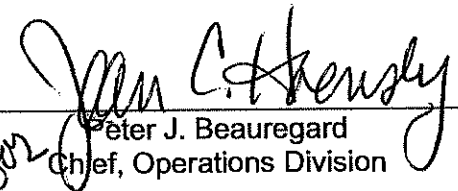

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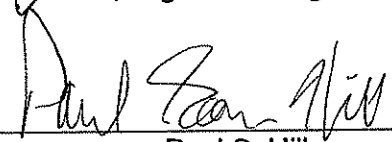

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Incorporates the following:
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Lead Ops Planner	DO4/T. Eggleston	281-244-0195
Lead RPE	DO4/ K. Wells	281-244-0288

FLIGHT PLAN
STS-127

LIST OF EFFECTIVE PAGES

FINAL 05/14/09

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vi.....	*	127/FIN	2-42	127/FIN
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DETAILED TIMELINE..... 3-1

INTRODUCTION

The STS-127 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-17462-127, STS-127 Flight Requirements Document
- NSTS-37326, Shuttle Crew Scheduling Constraints
- NSTS-21434, ISS-2J/A Mission Integration Plan

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-127 Flight Plan is based on a launch date of June 13, 2009, at 11:14:50 GMT (06:14:50 CDT). 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:

None

The Flight Plan and previously published, non-flown sections listed below are available on the following Space Shuttle Flight Planning web site:

http://modspops.isc.nasa.gov/mod/DO/DO4/Joint/Web%20Pages/127_2JA.aspx?PageView=Shared

Non-flown sections that are no longer published:

- ISS Commanding Pages
- Attitude Timeline
- Ku-Band Antenna Masking Plan
- Flight Plan Notes
- Flight Plan Walkthrough

OVERVIEW TIMELINE

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STS-127/2JA Overview Timeline (16+0+2) Launch June 13, 2009

Updated: 13 MAY 2009

MET		00/0											1											2											3											4											5											6											7											8											9											10											11											12										
FD01	STS												ASC	Post	P/TV01 /	RMS	Pre	Sleep																																																																																																																														
	ORB ATT												-ZLV -XVV																																																																																																																																			
NC1*																																																																																																																																																
FD02	STS	Sleep	Post Sleep	OBSS Unbrth/Srvy-Stbd, Nose	Meal	OBSS Survey	OBSS	RNDZ	Pre Sleep	Sleep																																																																																																																																						
	ORB ATT	-ZLV -XVV		Inspection Attitudes											-ZLV -XVV																																																																																																																																	
NC2*																	NC3*																																																																																																																															
FD03	STS	Sleep	Pst Slp	ISS RNDZ		Dock	Hatch	HELX Xfer,	EVA1	Pre Sleep/EVA PB	Sleep																																																																																																																																					
	ORB ATT	-ZLV -XVV	Dump	RNDZ											BIAS -XLV -ZVV																																																																																																																																	
Water Dump* TI* Dock 1/20:35*																																																																																																																																																
FD04	STS	Sleep	Pst Slp	EVA Prep/Cmpout	EVA 1-JEF/ICC LTAs.P3 Nad UCCAS.S3 Zen PAS	Pst EVA	Pre Sleep	Sleep																																																																																																																																								
	ORB ATT	-ZLV -XVV	Dump	SSRMS (WS6)/SRMS JEF Install											BIAS -XLV -ZVV																																																																																																																																	
SSRMS W/O Nod2, MBS PDGF Ris, Mnvv OBSS Prgrpt																																																																																																																																																
FD05	STS	Slp	Post Sleep	OBSS H/O	Focus Inspct	OBSS H/O	ICC Unbrth	EVA Prep	EVA2	Pre Sleep/EVA PB	Sleep																																																																																																																																					
	ORB ATT	-ZLV -XVV	D	EVA Prep											BIAS -XLV -ZVV																																																																																																																																	
SSRMS W/O MBS PDGF3,Nod2 Ris, MT Xlate WS6-7																																																																																																																																																
FD06	STS	Slp	Pst Slp	EVA Prep/Cmpout	EVA 2-3 ICC ORU Xfers, JEF FWD VE Instl	Pst EVA	Pre Sleep	Sleep																																																																																																																																								
	ORB ATT	-ZLV -XVV	D	SSRMS (WS7)/POA EVA Support											BIAS -XLV -ZVV																																																																																																																																	
FD07	STS	S	Post Sleep	SRMS JLE Unbrth, H/O	ICC	Meal	OFF DUTY (3:15 hr),PFCs	EVA3	Pre Sleep/EVA PB	Sleep																																																																																																																																						
	ORB ATT	-ZLV -XVV	D	SRMS, Instl											BIAS -XLV -ZVV																																																																																																																																	
MT Xlate WS7-8																																																																																																																																																
FD08	STS	S	Pst Slp	EVA Prep/Cmpout	EVA 3-JLE P/L Prep for Xfer, 4 P6 Batt R&R	Pst EVA	Pre Sleep	Sleep																																																																																																																																								
	ORB ATT	-ZLV -XVV	D	SSRMS (WS8) EVA Support											BIAS -XLV -ZVV																																																																																																																																	
FD09	STS	Post Sleep	EVA Prep, Xfer	Meal	SEDA-AP Xfer	Xfer	Pre Sleep/EVA PB	Sleep																																																																																																																																								
	ORB ATT	-ZLV -XVV	D	MAXI Xfer	ICS-EF Xfer	GLACIER Xfer, Handover	EVA4	Pre Sleep	Sleep																																																																																																																																							
FD10	STS	Pst Slp	EVA Prep/Cmpout	EVA 4-2 P6 Batt R&R,STP Relocate, JEF AFT VE Instl	Pst EVA	Pre Sleep	Sleep																																																																																																																																									
	ORB ATT	-ZLV -XVV	D	SSRMS (WS8) EVA Support											BIAS -XLV -ZVV																																																																																																																																	
FD11	STS	Pst Slp	O2 Xfer	OFF DUTY (6:30 hr)	Exer	Meal	OFF DUTY (6:30 hr),PFCs	Pre Sleep	Sleep																																																																																																																																							
	ORB ATT	-ZLV -XVV	D	Rcnfig,Inst	OFF DUTY (6:30 hr)											BIAS -XLV -ZVV																																																																																																																																
FD12	STS	Pst Slp	SSRMS JLE Uninstl,	Meal	EVA Prep, Xfer	O2 Xfr	Crew	EVA5	Pre Sleep/EVA PB	Sleep																																																																																																																																						
	ORB ATT	-ZLV -XVV	D	H/O to SRMS, Berth PLB	Handover	Term, Rcnfig	Conf	Rvw	Pre Sleep	Sleep																																																																																																																																						
MT Xlate WS8.4 SSRMS W/O Nod2 Water Dump																																																																																																																																																
FD13	STS	EVA Prep/Cmpout	EVA 5-Z1 Plch Pnl,SPDM Cvsrs.S3 Nad PAS,WETA	Pst EVA	Pre Sleep	Sleep																																																																																																																																										
	ORB ATT	MDDK Xfer, Handover											BIAS -XLV -ZVV																																																																																																																																			
FD14	STS	P	EMU Xfer/Tool Stow	RNDZ	Xfer	Meal	O2 Xfer	Hatch Close	Pre Sleep	Sleep																																																																																																																																						
	ORB ATT	-ZLV -XVV	D	Tools C/O	DCB Pack	T/D	Leak Ck	Pre Sleep	Sleep																																																																																																																																							
FD15	STS	Mnvv	Flyaround/	MEAL	Late Inspection	OBSS	Pre Sleep	Sleep																																																																																																																																								
	ORB ATT	UNDCK/FLYAROUND	Sep	Dump											BIAS -XLV -ZVV																																																																																																																																	
*Undk 13/13:13 *Water Dump																	*OBSS Berth																																																																																																																															
SEP-3*																																																																																																																																																
FD16	STS	FCS C/O,	D/O	Deploys, Cabin Stow	Meal	Cabin Stow, L-1 Comm Cks,	Pre Sleep	Sleep																																																																																																																																								
	ORB ATT	-ZLV -XVV	D	Brief	Water Dumps	Dump	BIAS -XLV -ZVV																																																																																																																																									
DRAGONSAT* ANDE-2* SEP4* *Water Dumps																																																																																																																																																
FD17	STS	I	DIO PREP	LDG																																																																																																																																												
	ORB ATT	-ZLV -XVV	D	COMM	Entry																																																																																																																																											

*KSC D/O TIG 16:33
*KSC Landing 17:23

DO4 FAO/J. Marshik x38796
DO4 TLL. Knowlton x41687

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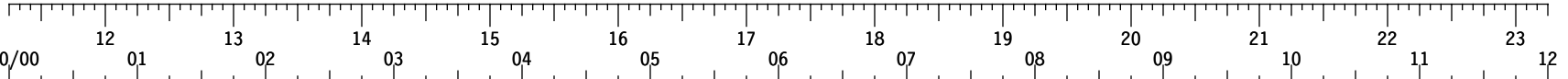
SUMMARY TIMELINE AND ISS SHORT TERM PLAN

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FD01

GMT 06/13/09 (164)

MET Day 000

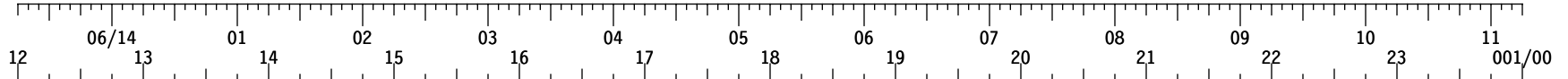


STS-127	CDR POLANSKY	ASCENT	POST INSERTION	SPTS LOAD DAPS	NC1 OMS BURN	MZLV RPRV	GRW PRDU	AFTC/O	ELVON	AMUS	PSLEE PMC A/G	PRE SLEEP	MNVR	SLEEP
	PLT HURLEY	ASCENT	POST INSERTION	SEAT# RMS*	OMS BURN	RP MWRUP	RMS C/O			PRE CURS DL	PRE SLEEP		SLEEP	
	MS1 CASSIDY	ASCENT	POST INSERTION	PGSC SETUP (PART 1)					W LEST ACT		PRE SLEEP		SLEEP	
	MS2 PAYETTE	ASCENT	POST INSERTION	PGSC SETUP (PART 1)		RP MWRUP	RMS C/O			PRE CURS DL	PRE SLEEP		SLEEP	
	MS3 MARSHBURN	ASCENT	POST INSERTION	P/TV01 VIDEO SETUP					W AM TU CS H		PRE SLEEP		SLEEP	
	MS4 WOLF	ASCENT	POST INSERTION	OS CE AT CUP	GIRA INSTALL	PRE SLEEP		S/ UX	ET PHO TO	PS LEE P	EVD TID L HE O	PRE SLEEP		SLEEP
	MS5 KOPRA	ASCENT	POST INSERTION			TE PC ON	SEE SETUP		PS LEE P	BL EED %	UM B WELL D/L	PRE SLEEP		SLEEP
DAY/NIGHT		[Timeline with day/night bars]												
ORBIT		[Timeline with orbit bars]												
TDRS		[Timeline with TDRS bars]												
ORB ATT		[Timeline with orb att bars: OMS2, -ZLV -XVV, NC1, -ZLV -XVV, INRTL, -ZLV -XVV]												
NOTES		^APCU ACT *ON-ORBIT INIT #PWR OFF *FD1 RECONFIG ^SALIVA KIT %ORIFICE												

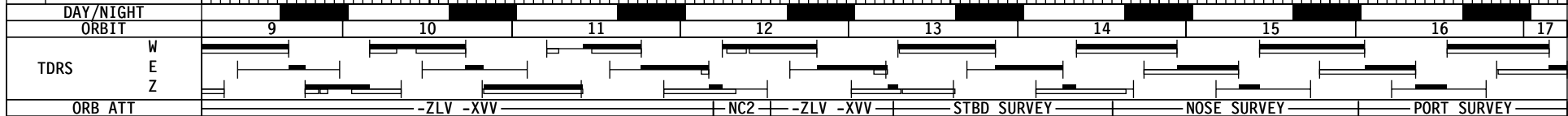
FD02

GMT 06/13/09 (164)

MET Day 000



STS-127	CDR POLANSKY	SLEEP	POST SLEEP	NC2 OMS BURN	M-NZ V-LRV	R-CI L-S*U	MVR-S	STBD WING SURVEY	MVR-N	NOSE CAP SURVEY	MEAL	MVR-P	PORT WING SURVEY
	PLT HURLEY	SLEEP	POST SLEEP	OMS BURN	OBSS UNBERTH		STBD WING SURVEY	NOSE CAP SURVEY	MEAL	PORT WING SURVEY			
	MS1 CASSIDY	SLEEP	POST SLEEP	PGSC SETUP (PART II)		EMU C/O PREP	EMU C/O	EXERCISE	CRYO 02 SCK	MEAL	FILTER CLEAN		
	MS2 PAYETTE	SLEEP	POST SLEEP	FRED SETUP	OBSS UNBERTH		STBD WING SURVEY	NOSE CAP SURVEY	MEAL	PORT WING SURVEY			
	MS3 MARSHBURN	SLEEP	POST SLEEP	ERG SETUP		P/TV01 VIDEO SETUP	EXERCISE	EVA PRP XFER TO ISS	MEAL	MIDDECK XFER PREP			
	MS4 WOLF	SLEEP	POST SLEEP	ERG SETUP		EMU C/O PREP	EMU C/O	EVA PRP XFER TO ISS	MEAL	MIDDECK XFER PREP			
	MS5 KOPRA	SLEEP	POST SLEEP			EMU C/O PREP	EMU C/O	EVA PRP XFER TO ISS	MEAL				



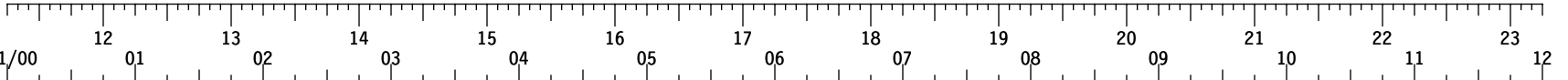
NOTES

*FILTER CK *HEATER RCNFG

FD02

GMT 06/14/09 (165)

MET Day 001

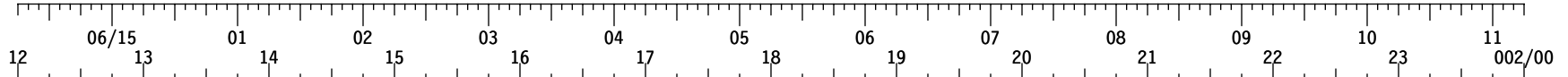


STS-127	CDR POLANSKY	M-NZ V-LV	MUS	EXERCISE	NC3 +X RCS BURN	M-NZ V-LV	PRE SLEEP	PMC A/G	PRE SLEEP	SLEEP
	PLT HURLEY	OBSS BERTH	A P C U @	MUS	PS R L E E P	+X RCS BURN	PRE SLEEP		SLEEP	
	MS1 CASSIDY	DRY S L V * FC P R G	MUS	FCMS C/O	RNDZ TOOLS C/O	O C C A *	PRE SLEEP	DRY S L V	SLEEP	
	MS2 PAYETTE	OBSS BERTH	MUS	RNDZ TOOLS C/O			PRE SLEEP		SLEEP	
	MS3 MARSHBURN			SETUP C/L CAMR	ODS RING EXT	MUS	PRE SLEEP	DRY S L V	SLEEP	
	MS4 WOLF	EXERCISE		SETUP C/L CAMR	ODS RING EXT	OMS POD SRVY	PRE SLEEP	DRY S L V	SLEEP	
	MS5 KOPRA			LDRI DOWNLINK	EXERCISE		PRE SLEEP		SLEEP	
DAY/NIGHT										
ORBIT										
TDRS										
ORB ATT		<p>-ZLV -XVV NC3 -ZLV -XVV</p>								
NOTES		<p>*MANUAL @ACT ^PREP-RNDZ C/O *RATE RCNFG</p>								

FD03

GMT 06/14/09 (165)

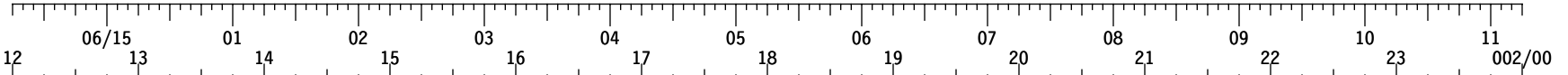
MET Day 001



STS-127	CDR POLANSKY	SLEEP	POST SLEEP	ISS RNDZ OPS	APPROACH W/RPM	HATCH OPEN	SFTY BRIEF	EFBM MON PREP	CUR MON CO	
	PLT HURLEY	SLEEP	POST SLEEP	ISS RNDZ OPS	APPROACH W/RPM	HATCH OPEN	SFTY BRIEF	OPCU %	EXER	
	MS1 CASSIDY	SLEEP	POST SLEEP	ISS RNDZ OPS	APPROACH W/RPM	HATCH OPEN	SFTY BRIEF	PSTV05P	EVA 1 TOOL CONFG	
	MS2 PAYETTE	SLEEP	POST SLEEP	ISS RNDZ OPS	APPROACH W/RPM	HATCH OPEN	SFTY BRIEF	BCDULED TEST	FNLA CT	
	MS3 MARSHBURN	SLEEP	POST SLEEP	DIDB FILL	EXERCISE	APPROACH W/RPM	SFTY BRIEF	EVA XFER TO ISS	EVA 1 TOOL CONFG	
	MS4 WOLF	SLEEP	POST SLEEP	EMU RMVL	EXERCISE	P/TV02 DOCK S/U	APPROACH W/RPM	SFTY BRIEF	EVA XFER TO ISS	REBREA C/O
	UP FE-2 EXP19 KOPRA	SLEEP	POST SLEEP	EMU RMVL	EXERCISE	APPROACH W/RPM	SFTY BRIEF	IELK RMVL & XFER	REBREA C/O	
DAY/NIGHT	[Timeline bars for day/night cycle]									
ORBIT	[Timeline bars for orbit parameters]									
TDRS WEZ	[Timeline bars for TDRS operations]									
ORB ATT	[Timeline bars for orbit attitude]									
SSRMS POS	[Timeline bars for SSRMS position]									
NOTES	@REG RCNFG %RATE DCNFG ^GALLEY MORNING *GALLEY OVERNIGHT *1/20:35 ^FILTER CK %ACT*INSTALL ^PST DOCK RCNFG #JEF PRGRPL									

FD03

GMT 06/14/09 (165)



MET Day 001

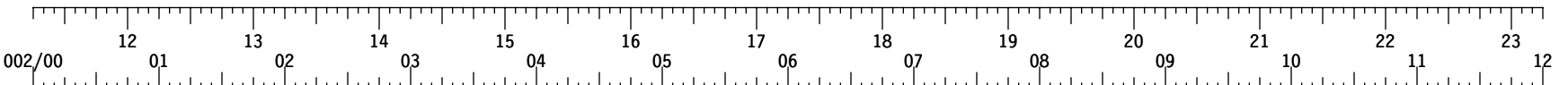
ISS	TDRS	AVAIL																								
D N	FE-2 WAKATA	SLEEP	POST SLEEP	PW	DPC	EXERCISE ARED	EXERCISE CEVIS	MIDDAY-MEAL			T M R C S U	D V I D D E O	A L P B S U	HATCH LEAK CK ISS			HATCH OPEN			H E L L O			SFTY BRIEF	EVA XFER TO ISS	R E B R E A C /O	
		ISS CDR PADALKA	SLEEP	POST SLEEP	PW	DPC	VELO	EXERCISE TVIS	P/TV RPM VRFY S/U	C O M M	MIDDAY-MEAL	P R E P	4 P H O O T M O	P R E P	P R E P	P R E P	PMA2 CFG	H O A P E N			A S K M P L	H E L L O			SFTY BRIEF	IMS
E X P 1 9	FE-1 BARRATT	SLEEP	POST SLEEP	PW	DPC	TVIS	EXERCISE ARED	P/TV RPM VRFY S/U	H D S U	MIDDAY-MEAL	P R E P	8 P H O O T M O	P R E P	P R E P	C A M D	EVA CAMERA CNFG	H A T C H O P E N			H E L L O			SFTY BRIEF			
		FE-3 ROMANENKO	SLEEP	POST SLEEP	PW	DPC	EXERCISE TVIS		MIDDAY-MEAL			D O C K I N G *						H E L L O			SFTY BRIEF	VELO				
E X P 2 0	FE-4 THIRSK	SLEEP	POST SLEEP	PW	DPC	EXERCISE CEVIS		MIDDAY-MEAL			PMA2 CFG			H A T C H L E A K C K I S S			I C O M			H E L L O			SFTY BRIEF			
		FE-5 DE WINNE	SLEEP	POST SLEEP	PW	DPC	EXERCISE CEVIS	MIDDAY-MEAL			D O C K I N G *						H E L L O			SFTY BRIEF	EXER ARED					
DAY/NIGHT																										
ORBIT			25	26	27	28	29	30	31	32	33															
SSRMS POS			NODE2 PDGF																							
NOTES																										

*INSTALL

FD03

GMT 06/15/09 (166)

MET Day 002

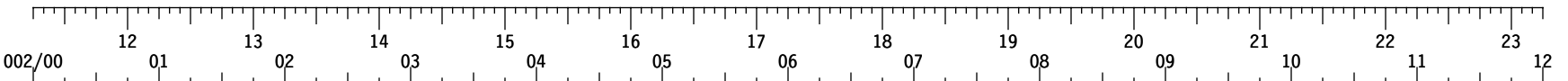


S T S - 1 2 7	CDR POLANSKY	P/B 02 S/U	SODF XFER	EVA 1 PROC RVW	MUS	PRE SLEEP	PMC A/G	PRE SLEEP	SLEEP	
	PLT HURLEY	EXER	JRMS^	JRMS* BUS	EVA 1 PROC RVW	MUS		PRE SLEEP	SLEEP	
	MS1 CASSIDY	EVA 1 TOOL CONFIG	EXERCISE		EVA 1 PROC RVW			PRE SLEEP	SLEEP	
	MS2 PAYETTE	FNL ACT	BUS	JRMS^	1553 JMPR RCN PREP	EVA 1 PROC RVW	MUS	PRE SLEEP	SLEEP	
	MS3 MARSHBURN	EVA 1 TOOL CONFIG			EVA 1 PROC RVW	MUS	XTFAEGR BRIEF	PRE SLEEP	SLEEP	
	MS4 WOLF	* EVA 1 TOOL CONFIG	E-LK PREP		EVA 1 PROC RVW		PRE SLEEP	MASK PB/TOOL CONFIG	PRE SLEEP	SLEEP
U P	FE-2 EXP19 KOPRA	* EVA 1 TOOL CONFIG	E-LK PREP	EVA 1 PROC RVW	DPC	PMC	PRE SLEEP	MASK PB/TOOL CONFIG	PRE SLEEP	SLEEP
	ISS A/L CAMPOUT @ 10.2 psi									
DAY/NIGHT										
ORBIT										
TDRS										
ORB ATT										
SSRMS POS										
NOTES		*REBA C/O *MNVR TAB RMVL ^INSTL VIEW1								

FD03

GMT 06/15/09 (166)

MET Day 002

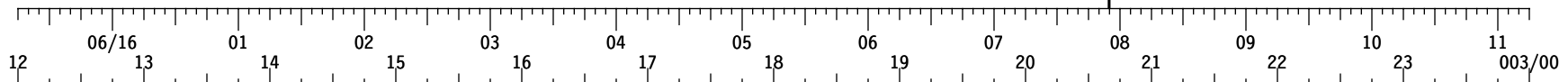


ISS	TDRS	AVAIL																																																		
D N	FE-2 WAKATA	* EVA 1 TOOL CONFIG	E-LK PREP	EVA 1 PROC RVW	X T F A E G R	IELK STOW	PRE SLEEP					SLEEP																																								
E X P 1 9	ISS CDR PADALKA	IELK INST & C/O	SOKOL LK CK	S D O R K Y O L	EVA 1 PROC RVW	DPC	PRE SLEEP			G L O V E	PRE SLEEP	S C O L S O L	SLEEP																																							
	FE-1 BARRATT	P/B 02 S/U		V I D	EVA 1 PROC RVW	DPC	PW	PRE SLEEP					SLEEP																																							
	FE-3 ROMANENKO				EVA 1 PROC RVW	DPC	PW	PRE SLEEP					SLEEP																																							
E X P 2 0	FE-4 THIRSK		EXERCISE TVIS	E X D L	EVA 1 PROC RVW	DPC	PW	PRE SLEEP					SLEEP																																							
	FE-5 DE WINNE	EXER ARED	PCS XFER& SETUP	PW	EVA 1 PROC RVW	DPC	PW	PRE SLEEP					SLEEP																																							
	DAY/NIGHT ORBIT												33				34				35				36				37				38				39				40				41							
SSRMS POS												*REBA C/O												NODE2 PDGF																												
NOTES																																																				

FD04

GMT 06/15/09 (166)

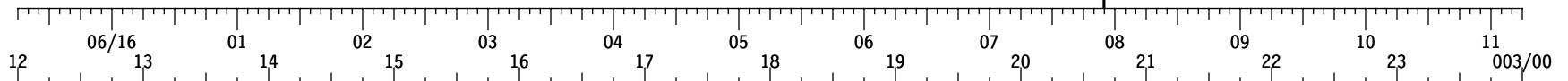
MET Day 002



STS-127	CDR POLANSKY	SLEEP	POST SLEEP	PMC A/G	POST SLEEP	CWCF	XFN	UNP	INH	CTW	TEI	EXERCISE	XFER OPS	N2 XFER INIT	CWC-I XFER	PRLA	MEAL	RMS	RMS JEF MNVR H/O	PWR FILL #1	PX WFER	JEF
	PLT HURLEY	SLEEP	POST SLEEP			MCIU*	XFER OPS	JEF GRPL	EXERCISE	XFER OPS	MEAL	JEF UNBRTH H/O	JEF RLS	SSRMS PDGF3 GRPL		NR OLS E 2	SSRMS MNVR JEF	JEF RPL				
	MS1 CASSIDY	SLEEP	POST SLEEP	LOG	HYG BRK/HATCH CLS	CAMPOUT EVA PREP	EMURGE	EMU PREBREATHE	CLK DPRS	P		IVA SUPPORT EVA 1										
	MS2 PAYETTE	SLEEP	POST SLEEP				EXERCISE	PTV 06	P/TV 07 S/U	CTW	P/TV 07 EVA SUPT	BUS	CL DPLY	JRMS*	BUS	RMS	RMS JEF MNVR H/O	MEAL	JEF			
	MS3 MARSHBURN	SLEEP	POST SLEEP	LOG	HYG BRK/HATCH CLS	CAMPOUT EVA PREP	EMURGE	EMU PREBREATHE	CLK DPRS	P	EXERCISE	P/TV 07 EVA SUPT		MEAL	P/TV 07 EVA SUPT							
	MS4 WOLF	SLEEP	POST SLEEP		HYG BRK/PREBREATHE	CAMPOUT EVA PREP	EMURGE	EMU PREBREATHE	CLK DPRS	P	SETUP	JPM BM PREP	CETA CART MODS	P3 NADIR UCCAS		P3 ZENITH OUTBD PAS						
DAY/NIGHT ORBIT		41	42	43	44	45	46	47	48													
TDRS	WEZ	[Timeline bars for TDRS, WEZ, ORB ATT, SSRMS POS]																				
ORB ATT	BIAS -XLV -ZVV																					
SSRMS POS	NODE2 PDGF *FILTER CK ^RLS @JEF GRPL W/O MBS PDGF3 @ WS6 ~UNGRPL																					
NOTES	*INSTL VIEW2																					

FD04

GMT 06/15/09 (166)



MET Day 002

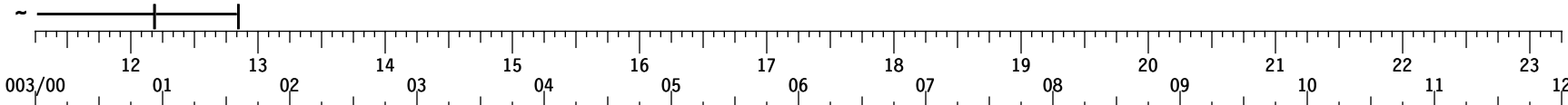
ISS	TDRS	AVAIL																																
D N	FE-2 WAKATA	SLEEP	POST SLEEP	PW	DPC	EXERCISE CEVIS	JEF GRPL	EXERCISE TVIS	N2 XFER INIT	MIDDAY MEAL	JEF UNBRTH H/O	JEF RLS	SSRMS PDGF3 GRPL	N R O L D S E 2	SSRMS MNV JEF	J R E G F P L																		
		ISS CDR PADALKA	SLEEP	POST SLEEP	PW	DPC	RS-MNT	VELO		EXERCISE TVIS	MIDDAY-MEAL	IMS	RS-MNT	COX MNT																				
E X P 1 9	FE-1 BARRATT	SLEEP	POST SLEEP	HYG BRK/ SHATCH CLS	CAMPOUT EVA PREP		E P U R G E	EMU PREBREATHE	C L K D P R S	P E G R S	EXERCISE ARE		MIDDAY-MEAL	CSA-CP ACO																				
		FE-2 EXP19 KOPRA	SLEEP	POST SLEEP	HYG BRK/ PREBREATHE	CAMPOUT EVA PREP		E P U R G E	EMU PREBREATHE	C L K D P R S	P E G R S	SETUP	PLB PREP	Z1 TL BOX/ CBCS FLAP	P3 NADIR UCCAS		GET AHEADS																	
E X P 2 0	FE-3 ROMANENKO	SLEEP	POST SLEEP	PW	DPC	EXERCISE TVIS	VELO						MIDDAY-MEAL																					
		FE-4 THIRSK	SLEEP	POST SLEEP	PW	DPC	EXERCISE ARE	3 S D E T U P	3 R D T S - E X E P C	3 S D T O W	EXERCISE CEVIS		MIDDAY-MEAL																					
		FE-5 DE WINNE	SLEEP	POST SLEEP	PW	DPC	V O C A	DOSIS XFER	DOSIS MAIN SETUP	D O S I S S U	EXERCISE ARE		V O C A	3 S D E T U P	3 F D D S - E X E P C	3 S D T O W	MIDDAY-MEAL																	
DAY/NIGHT																																		
ORBIT		41	42	43	44	45	46	47	48																									
SSRMS POS		NODE2 PDGF															W/O MBS PDGF3 @ WS6																	
NOTES																																		

NO UNISOLATED
 NO EXERCISE EXERCISE
 [JEF INSTALL] [EFBM OPS]

FD04

GMT 06/16/09 (167)

MET Day 003



STS-127	CDR POLANSKY	JEF G1 S/U CURR*	EFBM CUR MON	MUS PRE SLEEP	RMS PRE SLEEP	PTL PRE SLEEP	BRIEF PRE SLEEP	PMC A/G	PRE SLEEP	SLEEP							
	PLT HURLEY	JEF INSTL	SAFING	MUS JEF RLS & MNVR XLATE	RMS PRE SLEEP				PRE SLEEP	SLEEP							
	MS1 CASSIDY	IVA SUPPORT EVA 1	PRRS	POST EVA W/H2O, METOX	B S A - I				PRE SLEEP	SLEEP ISS EXTERNAL SURVEY							
	MS2 PAYETTE	JEF EFBM#		EFBM OPS	JMPR RCNCT & CLSOUT	MUS			PRE SLEEP	SLEEP							
	MS3 MARSHBURN	P/TV 07 EVA SUPT	PRRS	POST EVA W/H2O, METOX	MUS				PRE SLEEP	SLEEP							
	MS4 WOLF	*CLNUP & INGRS	PRRS	POST EVA W/H2O, METOX					PRE SLEEP	SLEEP							
DAY/NIGHT ORBIT		49		50		51		52		53		54		55		56	
TDRS	W E Z	[TDRS activity bars]															
ORB ATT	BIAS -XLV -ZVV																
SSRMS POS	MBS PDGF3 @ WS6																
NOTES	*P3 ZENITH OUTBD PAS ^UNGRPL *MON ZEROING #ACT				^PRECRADLE &DEACT *ON				W/O				NODE2 PDGF				

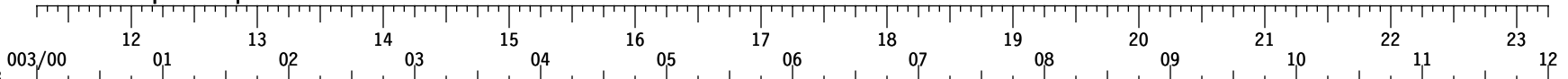
NO UNISOLATED
 NO EXERCISE EXERCISE
 [JEF INSTALL] [EFBM OPS]

FD04

GMT 06/16/09 (167)

MET Day 003

003/00



ISS	TDRS	AVAIL																															
D N	FE-2 WAKATA	JEF INSTL	SAFING		JEF RLS &MNV XLATE	I M A G E	PRE SLEEP						SLEEP																				
	ISS CDR PADALKA			PW	E X D L	D P C	PW	PRE SLEEP						SLEEP																			
	FE-1 BARRATT	PRE SLEEP	GP L R P S	POST EVA W/H2O, METOX	B S A - I	EXERCISE CEVIS	PRE SLEEP	ISS EXTERNAL SURVEY					SLEEP																				
U P	FE-2 EXP19 KOPRA	* CLNUP & INGRS	P R P S	POST EVA W/H2O, METOX	PMC		PRE SLEEP						SLEEP																				
E X P 2 0	FE-3 ROMANENKO			PW	D P C	PW	PRE SLEEP						SLEEP																				
	FE-4 THIRSK			PW	D P C	PW	PRE SLEEP						SLEEP																				
	FE-5 DE WINNE	PW	EXERCISE CEVIS		D P C	PW	PRE SLEEP						SLEEP																				
DAY/NIGHT		[Timeline bar]																															
ORBIT		[Timeline bar]																															
SSRMS POS		49				50				51				52				53				54				55				56			
						MBS PDGF3 @ WS6								W/O								NODE2 PDGF											
NOTES		*GET AHEADS																															

FD05

GMT 06/16/09 (167)

MET Day 003

		NO EXERCISE [DUAL ARM OPS]				NO EXERCISE [LCS FI]				NO EXERCISE [DUAL ARM OPS]										
		12	13	14	15	16	17	18	19	20	21	22	23	11						
		004/00																		
STS-127	CDR POLANSKY	SLEEP	POST SLEEP	POST SLEEP	POST SLEEP	FI DOUG REVIEW	RMS GRPL OBSS	FOCUSSED INSPECTION				OBSSK	OBSSK	MEAL	MRL@	RMS ICC GRPL	RMS ICC UNBRTH	RMS MVR ICC H/O		
	PLT HURLEY	SLEEP	POST SLEEP	POST SLEEP	POST SLEEP	FI DOUG REVIEW	RMS GRPL OBSS	FOCUSSED INSPECTION				OBSSK	OBSSK	MEAL	MRL@	RMS ICC GRPL	RMS ICC UNBRTH	RMS MVR ICC H/O	EXER	
	MS1 CASSIDY	SLEEP	POST SLEEP	POST SLEEP	POST SLEEP	ILU M*	FLTR INSP	EVA 2 TOOL CONFG	B S A - T	B S A - I	M T X - T	GRS GUN CLN	EXERCISE	PWR FILL #2	P X W F R E R	MEAL	C W C - I 3	C T I W E N C R I - M T I / 4	C W C - I *	
	MS2 PAYETTE	SLEEP	POST SLEEP	POST SLEEP	POST SLEEP	SSRMS OBSS UNBRTH	SSRMS OBSS MNVR H/O	ORL S S	S M N R V M R S ^	FOCUSSED INSPECTION				SSRMS OBSS PRGRPL	OBSSK	SSRMS OBSS BERTH	ORL S S	P P D R G G F P L 3	MEAL	EXERCISE
	MS3 MARSHBURN	SLEEP	POST SLEEP	POST SLEEP	POST SLEEP	X U P R D A T	EVA 2 TOOL CONFG	XFER OPS	EMU RCNFG EVA 2	B M A T T T X /	B M A T T T X /	R E / B O A	E-LK PREP	MEAL	EXERCISE	XFER OPS				
	MS4 WOLF	SLEEP	POST SLEEP	POST SLEEP	POST SLEEP	EVA 2 TOOL CONFG	XFER OPS	EMU RCNFG EVA 2	B M A T T T X /	B M A T T T X /	R E / B O A	E-LK PREP	MEAL	XFER OPS	EXERCISE	XFER OPS				
DAY/NIGHT		56	57	58	59	60	61	62	63	64										
ORBIT																				
TDRS W E Z																				
ORB ATT																				
SSRMS POS																				
NOTES		*FILTER CK %RLS				*OFF ^FI VIEW				BIAS -XLV -ZVV				NODE2 PDGF						
										^MNVR H/O				@LATCH						
														*TERM						

FD05

GMT 06/16/09 (167)

MET Day 003

ISS TDRS AVAIL

		NO EXERCISE [DUAL ARM OPS]		NO EXERCISE [LCS FI]		NO EXERCISE [DUAL ARM OPS]												
		12	13	14	15	16	17	18	19	20	21	22	23	004/00				
D N	FE-2 WAKATA	SLEEP	POST SLEEP	PW DPC	EXERCISE CEVIS	EVA 2 TOOL CONFG			MIDDAY-MEAL	R C E/ B O A	E-LK PREP	EXERCISE TVIS	B U S	JRMS MNVR CAL				
	ISS CDR PADALKA	SLEEP	POST SLEEP	PW DPC	EXERCISE TVIS	RS-MNT			MIDDAY-MEAL	RS-MNT		COX MNT	RS-MNT	IMS	VELO			
E X P 1 9	FE-1 BARRATT	SLEEP	POST SLEEP	PW DPC	EXERCISE ARE	D 2 X S	B S A - T	B S A - I	M T X - T	MIDDAY-MEAL	D 2 X S	CEVIS		D2XS CAMR				
	FE-2 EXP19 KOPRA	SLEEP	POST SLEEP	PW DPC	O G B R S L	SSRMS OBSS UNBRTH	SSRMS OBSS MNVR H/O	O R L S S	S M N V R M S ^	PMC	ADAPT	MIDDAY-MEAL	SSRMS OBSS PRGRPL	O G B R S L	SSRMS OBSS BERTH	O R L S S	P P D R G F P L 3	ADAPT
E X P 2 0	FE-3 ROMANENKO	SLEEP	POST SLEEP	PW DPC PW	VELO				MIDDAY-MEAL						EXER TVIS			
	FE-4 THIRSK	SLEEP	POST SLEEP	PW DPC PW				MIDDAY-MEAL			EXERCISE ARE		EXERCISE CEVIS					
	FE-5 DE WINNE	SLEEP	POST SLEEP	PW DPC PW				MIDDAY-MEAL			EXERCISE CEVIS		EXER ARE					
DAY/NIGHT		[Visual representation of day/night cycle]																
ORBIT		56 57 58 59 60 61 62 63 64																
SSRMS POS		[Visual representation of SSRMS positions]																
NOTES		^FI VIEW																

FD05

GMT 06/17/09 (168)

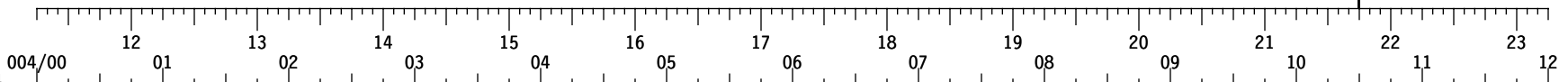
MET Day 004

		004/00		12	13	14	15	16	17	18	19	20	21	22	23	12
STS - 127	CDR POLANSKY			PEAVENT	EVA 2 PROC RVW	IMMUS	PRE SLEEP	PMC OCA	PRE SLEEP							
	PLT HURLEY	EXER		PEAVENT	EVA 2 PROC RVW	MUS	PRE SLEEP									
	MS1 CASSIDY	CWC-I XFER		PEAVENT	EVA 2 PROC RVW	ILLUMUS	PRE SLEEP									
	MS2 PAYETTE			PEAVENT	EVA 2 PROC RVW	MUS	PRE SLEEP									
	MS3 MARSHBURN	XFAEGR	BRIEF	PEAVENT	EVA 2 PROC RVW		PRE SLEEP	MASK PB/TOOL CONFIG	PRE SLEEP							
	MS4 WOLF	XFAEGR		PEAVENT	EVA 2 PROC RVW		PRE SLEEP	MASK PB/TOOL CONFIG	PRE SLEEP							
DAY/NIGHT ORBIT																
TDRS WEZ																
ORB ATT																
SSRMS POS																
NOTES																

FD05

GMT 06/17/09 (168)

MET Day 004



ISS	TDRS	AVAIL												
D N	FE-2 WAKATA	JRMS CAL		MJ NL VE R	BUS MON STOP	D P R P	DPC	PRE SLEEP					SLEEP	
		E X P 1 9	ISS CDR PADALKA	VE LO	EX DL	PREP	PA VE NT	EVA 2 PROC RVW	PW	DPC	PRE SLEEP			
	FE-1 BARRATT		PL CSU	HD	PREP	PA VE NT	EVA 2 PROC RVW	PW	DPC	PRE SLEEP	ISS EXTERNAL SURVEY			
U P	FE-2 EXP19 KOPRA	JRMS CAL		MJ NL VE R	EVA 2 PROC RVW	PW	DPC	PRE SLEEP					SLEEP	
E X P 2 0	FE-3 ROMANENKO	EXER TVIS	EVA 2 PROC RVW		PW	DPC	PRE SLEEP					SLEEP		
	FE-4 THIRSK	EVA 2 PROC RVW		PW	DPC	PRE SLEEP					SLEEP			
	FE-5 DE WINNE	EXER ARED	EVA 2 PROC RVW		PW	DPC	PRE SLEEP					SLEEP		
DAY/NIGHT		[Bar chart showing day/night cycle]												
ORBIT		64	65	66	67	68	69	70	71	72				
SSRMS POS		NODE2 PDGF				W/O			MBS PDGF3 @ WS6			MT XLATE		
NOTES		*JRMS MNVR CAL												

NO UNISOLATED EXERCISE

[MT XLATE]

NO EXERCISE

[DUAL ARM OPS]

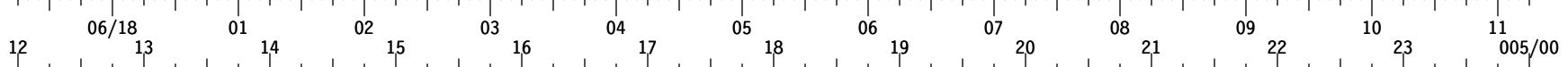
NO UNISOLATED EXERCISE

[ORU & VE INSTALL]

FD06

GMT 06/17/09 (168)

MET Day 004



S T S - 1 2 7	CDR POLANSKY	SLEEP	PS OL SE TE P	PMC A/G	POST SLEEP	IP LN AHD MI B	P/TV 07 S/U	U GR PL	R M S #	CWC-I XFER	P/TV 07 EVA SUPT	MEAL	P/TV 07 EVA SUPT								
	PLT HURLEY	SLEEP	POST SLEEP	MC C I T U S	PS OL SE TE P	CT W E N G R I P L	U G R P L	CT W E R - M I	R M S #		SSRMS EVA 2 SUPT		LE IX O C H G								
	MS1 CASSIDY	SLEEP	POST SLEEP	LOG	HYG BRK/ HATCH CLS	CAMP POUT EVA PREP	EP MU UR GE	EMU PRE BREATHE	C L K D P R S	P D P S		IVA SUPPORT EVA 2									
	MS2 PAYETTE	SLEEP	POST SLEEP				SSRMS ICC GRPL	SSRMS ICC INSTL POA	ICC RLS			SSRMS EVA 2 SUPT		E X E R							
	MS3 MARSHBURN	SLEEP	POST SLEEP		HYG BRK/ PRE BREATHE	CAMP POUT EVA PREP	EP MU UR GE	EMU PRE BREATHE	C L K D P R S	P D P S	SET UP	ICC ORU XFERS EVA 2 - 6:30	JEF FWD VE INSTALL	C I L N G U R P S &							
	MS4 WOLF	SLEEP	POST SLEEP	14.7 RPRS	HYG BRK/ PRE BREATHE	CAMP POUT EVA PREP	EP MU UR GE	EMU PRE BREATHE	C L K D P R S	P D P S	SET UP	ICC ORU XFERS	JEF FWD VE INSTALL	C I L N G U R P S &							
DAY/NIGHT		ORBIT		72		73		74		75		76		77		78		79		80	
TDRS		W E Z																			
ORB ATT																					
SSRMS POS																					
NOTES																					

BIAS -XLV -ZVV
MBS PDGF3 @ WS7
#MNVR EVA2 VIEW

^OFF
*FILTER CK

NO UNISOLATED EXERCISE
[MT XLATE]

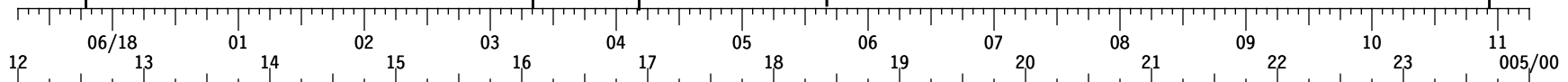
NO EXERCISE
[DUAL ARM OPS]

NO UNISOLATED EXERCISE
[ORU & VE INSTALL]

FD06

GMT 06/17/09 (168)

MET Day 004



ISS	TDRS	AVAIL																																	
DN	FE-2 WAKATA	SLEEP	POST SLEEP	PW	DPC	HANDOVER			3 S D E S T U P	3 K D W S - E X E P C	3 S D T S O W	EVA2 CAM OPS	MIDDAY-MEAL	EVA2 CAM OPS	EXERCISE CEVIS	B S A - T	T V I S																		
EXP 19	ISS CDR PADALKA	SLEEP	POST SLEEP	PW	DPC	VELO		RS-MNT	RS-MNT			MIDDAY-MEAL	RS-MNT	COX MNT	EXERCISE TVIS																				
	FE-1 BARRATT	SLEEP	POST SLEEP		HYG BRK/ HATCH CLS	CAMPOUT EVA PREP			E P M U R G E	EMU PREBREATHE		C L K D P R S	P D P S	EXERCISE TVIS	MIDDAY-MEAL	EXERCISE ARED			G L O V E																
UP	FE-2 EXP19 KOPRA	SLEEP	POST SLEEP	PW	DPC	HANDOVER	SSRMS ICC GRPL	SSRMS ICC INSTL POA	ICC RLS	ADAPT	MIDDAY-MEAL	ADAPT	EX OV	C S E W V A I P I S	A O R / E V D	C O V / V I S	R S P C / O	*																	
EXP 20	FE-3 ROMANENKO	SLEEP	POST SLEEP	PW	DPC	EXERCISE TVIS		VELO			MIDDAY-MEAL																								
	FE-4 THIRSK	SLEEP	POST SLEEP	PW	DPC	PW		EXERCISE CEVIS			B R I H O Y T H M	EXERCISE ARED			MIDDAY-MEAL	R S P C / O																			
	FE-5 DE WINNE	SLEEP	POST SLEEP	PW	DPC	PW		EXERCISE ARED			EXERCISE CEVIS			MIDDAY-MEAL																					
DAY/NIGHT																																			
ORBIT		72	73	74	75	76	77	78	79	80																									
SSRMS POS																																			
NOTES																																			

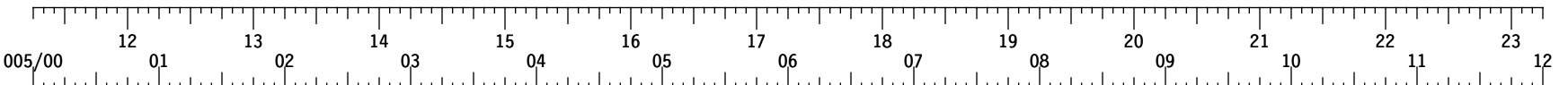
MBS PDGF3 @ WS7

*TVIS 0/V

FD06

GMT 06/18/09 (169)

MET Day 005

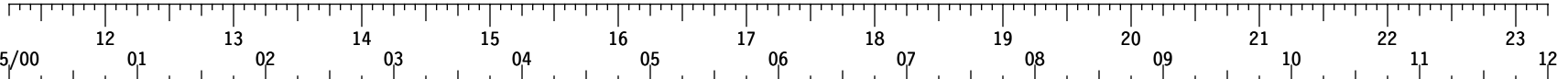


STS-127	CDR POLANSKY	P/TV 07 EVA SUPT	I M U S	EXERCISE	PRE SLEEP	PMC A/G	PRE SLEEP	SLEEP	
	PLT HURLEY	LEX OCH G		EXERCISE		I L M U U S *	PRE SLEEP	SLEEP	
	MS1 CASSIDY	I S E V U V A P 2 O R T	R P R S	POST EVA W/H2O, METOX		B S A - I	PRE SLEEP	SLEEP ISS EXTERNAL SURVEY	
	MS2 PAYETTE	EXER		P T V O S 6			PRE SLEEP	SLEEP	
	MS3 MARSHBURN	C I L N G U R P S &	R P R S	POST EVA W/H2O, METOX		M U S	PRE SLEEP	SLEEP	
	MS4 WOLF	C I L N G U R P S &	R P R S	POST EVA W/H2O, METOX			PRE SLEEP	SLEEP	
DAY/NIGHT ORBIT		80 81 82 83 84 85 86 87 88							
TDRS W E Z	[Timeline of TDRS events]								
ORB ATT	BIAS -XLV -ZVV								
SSRMS POS	MBS PDGF3 @ WS7								
NOTES	*ON								

FD06

GMT 06/18/09 (169)

MET Day 005



ISS	TDRS	AVAIL	Timeline (12-12)																		
D N	FE-2 WAKATA	TVIS	EX DL	PW	DPC	I M A G E	PW	PRE SLEEP	SLEEP												
E X P 1 9	ISS CDR PADALKA			IMS	PW	DPC	PW	PRE SLEEP	SLEEP												
	FE-1 BARRATT			P R P R S	POST EVA W/H2O, METOX			B S A - I	PRE SLEEP	ISS EXTERNAL SURVEY											
U P	FE-2 EXP19 KOPRA				PW	DPC	PW	PMC	PRE SLEEP	SLEEP											
E X P 2 0	FE-3 ROMANENKO				PW	DPC	PW		PRE SLEEP	SLEEP											
	FE-4 THIRSK				PW	DPC	PW		PRE SLEEP	SLEEP											
	FE-5 DE WINNE				PW	DPC	PW		PRE SLEEP	SLEEP											
DAY/NIGHT			Timeline (12-12)																		
ORBIT			Timeline (12-12)																		
SSRMS POS			Timeline (12-12)																		
NOTES			*TVIS O/V																		

MBS PDGF3 @ WS7

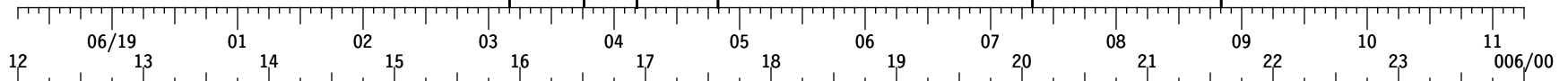
NO UNISOLATED EXERCISE
[DUAL ARM OPS] [JLE INSTALL]

NO UNISOLATED EXERCISE
[MT XLATE]

FD07

GMT 06/18/09 (169)

MET Day 005



STS-127	CDR POLANSKY	SLEEP	POST SLEEP	RMS JLE GRPL	RMS JLE UNBRTH	RMS JLE H/O	RUNSGP JLE	CWC-I	CTWEN CRT-MT I/8	COND 2 CWC/C/O	CTWEN CRT-M I	CWC-I XFER	EXERCISE	MEAL	PEAVOENT	OFF DUTY	PFC OCA	OFF DUTY		
	PLT HURLEY	SLEEP	POST SLEEP	ILLUM	EXERCISE	JLRPL	SSRMS JLE INSTL				JLR	SSRMS ICC RMVL POA	RMS &	MEAL	PEAVOENT	PFC OCA	OFF DUTY			
	MS1 CASSIDY	SLEEP	POST SLEEP		EVA 3 TOOL CFG		EMU SWAP EVA3	LINOSHTL	REBBA	RC/BO	E-LK PREP	EXERCISE	MEAL			OFF DUTY	PFC OCA	OFF DUTY		
	MS2 PAYETTE	SLEEP	POST SLEEP	MCIU	RMS JLE GRPL	RMS JLE UNBRTH	RMS JLE H/O	RUNSGP JLE	EFF	EOPUS 10		SSRMS ICC RMVL POA	PTM 6	MEAL	PEAVOENT	OFF DUTY	PFC OCA	OFF DUTY		
	MS3 MARSHBURN	SLEEP	POST SLEEP	SLOP AGRN	XUPR DATT	B S A - I	M T X - T	EVA 3 TOOL CFG	EMU SWAP EVA3	LINOSHTL	REBBA	RC/BO	EXERCISE	XFER OPS	BRIEF	MEAL		OFF DUTY	PFC OCA	OFF DUTY
	MS4 WOLF	SLEEP	POST SLEEP	ASPR		EVA 3 TOOL CFG		EXERCISE	E-LK PREP	XFER OPS	MEAL	PEAVOENT		OFF DUTY			PFC OCA	OFF DUTY		
DAY/NIGHT ORBIT		88		89		90		91		92		93		94		95		96		
TDRS WEZ																				
ORB ATT										BIAS -XLV -ZVV										
SSRMS POS						MBS PDGF3 @ WS7						MT XLATE				MBS PDGF3 @ WS8				
NOTES				^OFF *FILTER CK		^STATUS		*RPRS INIT ^INSTALL		*RPRS TERM		&MNVR-BATT R&R VIEW ^DEACT								

NO UNISOLATED
 NO EXERCISE EXERCISE
 [DUAL ARM OPS] [JLE INSTALL]

NO UNISOLATED EXERCISE
 [MT XLATE]

FD07

GMT 06/18/09 (169)

MET Day 005

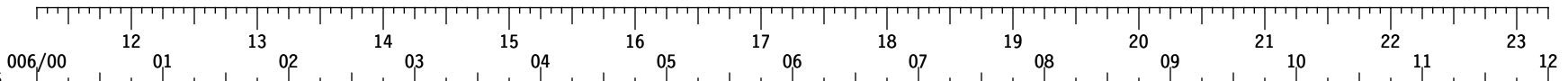
ISS		TDRS		AVAIL		06/19 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 006/00																			
D N	FE-2 WAKATA	SLEEP	POST SLEEP	PWDPC	PW	EXERCISE TVIS	TVIS	JLR EPL	SSRMS JLE INSTL	FFQ	JLE RLS	DP RP	HANDOVER	MIDDAY-MEAL	HANDOVER		PMC	EXERCISE TVIS							
		SLEEP	POST SLEEP	PWDPC	PW	RS-MNT	EXERCISE TVIS							MIDDAY-MEAL	PMC	PFC	COX MNT	VELO							
E X P 1 9	FE-1 BARRATT	SLEEP	POST SLEEP	PWDPC	PW	EXERCISE CEVIS	D S A - T	B S A - I	M T X - T	RAM INSTL	HD FFQ SU	MIDDAY-MEAL	D S X S	PMC	PFC	EXERCISE ARED	*								
		SLEEP	POST SLEEP	PWDPC	PW	F A C I N T A L	3 S D E T U P	3 T D K S - E X E P C	3 S D T S O W	ADAPT	FFQ	HANDOVER	MIDDAY-MEAL				PFC	PMC							
E X P 2 0	FE-3 ROMANENKO	SLEEP	POST SLEEP	PWDPC	PW			CMRS C/O	EXERCISE CEVIS	EXERCISE TVIS	MIDDAY-MEAL						PW								
		SLEEP	POST SLEEP	PWDPC		EXERCISE ARED		FFQ		R A I L	A E R V E A D C	B I O R H Y T H M D A T A D /L 1	MIDDAY-MEAL		EXERCISE CEVIS										
		SLEEP	POST SLEEP	PWDPC	PW		TVIS	CMRS C/O	FFQ	EXERCISE ARED	EXERCISE CEVIS	MIDDAY-MEAL			PW										
DAY/NIGHT		ORBIT		SSRMS POS		88 89 90 91 92 93 94 95 96																			
NOTES		MBS PDGF3 @ WS7 MT XLATE MBS PDGF3 @ WS8																							

*D2XS CAMR

FD07

GMT 06/19/09 (170)

MET Day 006

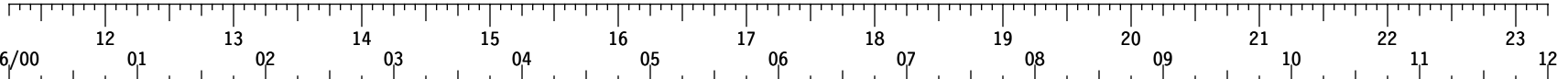


S T S - 1 2 7	CDR POLANSKY	OFF DUTY	EVA 3 PROC RVW	DM AU PS *S	PRE SLEEP	PMC A/G	PRE SLEEP	SLEEP	
	PLT HURLEY	OFF DUTY	EVA 3 PROC RVW	M U S	PRE SLEEP		PRE SLEEP	SLEEP	
	MS1 CASSIDY	OFF DUTY	EVA 3 PROC RVW		PRE SLEEP	MASK PB/TOOL CONFIG	PRE SLEEP	SLEEP	
	MS2 PAYETTE	OFF DUTY	EVA 3 PROC RVW	M U S	PRE SLEEP		ISS A/L CAMPOUT @ 10.2 psi	SLEEP	
	MS3 MARSHBURN	OFF DUTY	EVA 3 PROC RVW	M U S	PRE SLEEP			SLEEP	
	MS4 WOLF	OFF DTY	EVA 3 PROC RVW		PRE SLEEP	MASK PB/TOOL CONFIG	PRE SLEEP	SLEEP	
DAY/NIGHT									
ORBIT									
TDRS	W E Z								
ORB ATT		-BIAS -XLV -ZVV-							
SSRMS POS		-MBS PDGF3 @ WS8							
NOTES		%PROC REVIEW *UPDATE							

FD07

GMT 06/19/09 (170)

MET Day 006



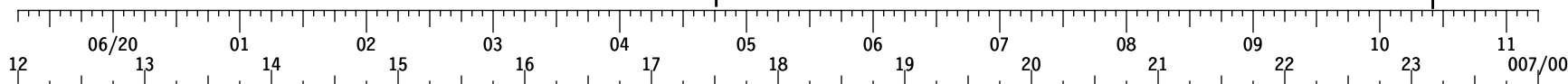
ISS	TDRS	AVAIL	Timeline (Hours 12-12)														
D N	FE-2 WAKATA	*PFC	EVA 3 PROC RVW	DPC	PW	PRE SLEEP						SLEEP					
			ISS CDR PADALKA	IMS	EVA 3 PROC RVW	DPC	PW	PRE SLEEP						SLEEP			
E X P 1 9	FE-1 BARRATT	D2XS CAMR	EVA 3 PROC RVW	DPC	PW	PRE SLEEP						SLEEP					
			FE-2 EXP19 KOPRA	S / U *	EVA 3 PROC RVW	DPC	PW	PRE SLEEP						SLEEP			
E X P 2 0	FE-3 ROMANENKO	PW	EVA 3 PROC RVW	DPC	PW	PRE SLEEP						SLEEP					
	FE-4 THIRSK	PW	EVA 3 PROC RVW	DPC	PW	PRE SLEEP						SLEEP					
	FE-5 DE WINNE	PW	EVA 3 PROC RVW	DPC	PW	PRE SLEEP						SLEEP					
DAY/NIGHT			Timeline (Hours 12-12)														
ORBIT			96	97	98	99	100	101	102	103							
SSRMS POS			MBS PDGF3 @ WS8														
NOTES			*EXERCISE TVIS *SALIVA														

NO UNISOLATED EXERCISE
[SSRMS AT EVA WS, PL PREP & P6 BATT]

FD08

GMT 06/19/09 (170)

MET Day 006



STS-127	CDR POLANSKY	SLEEP	POST SLEEP	PMC A/G	POST SLEEP	INHIB	EXERCISE	IMU	P/TV 07 S/U	P/TV 07 EVA SUPT	MEAL	P/TV 07 EVA SUPT	N 2 XFR ^		
	PLT HURLEY	SLEEP	POST SLEEP			EXERCISE		SSRMS ICC MVR EVA WS		SSRMS EVA 3 SUPT			SSRMS MNVR SARJ CLR	FINTRP	
	MS1 CASSIDY	SLEEP	POST SLEEP	HYG BRK/PREBREATHE	CAMPOUT EVA PREP	EMURGE	EMU PREBREATHE	C_LK DPRS	EGRS	SETUP	JEF MLI RMVL	P6 BATTERY R&R (4) EVA 3 - 6:30		CLNUP & INGRS	PRPSS
	MS2 PAYETTE	SLEEP	POST SLEEP			CWCI 19	CTWCRCR-I	CXWFCR-I	SSRMS ICC MVR EVA WS		SSRMS EVA 3 SUPT			SSRMS MNVR SARJ CLR	
	MS3 MARSHBURN	SLEEP	POST SLEEP	HYG BRK/HATCH CLS	CAMPOUT EVA PREP	EMURGE	EMU PREBREATHE	C_LK DPRS	EGRS	IVA SUPPORT EVA 3			PRPSS		
	MS4 WOLF	SLEEP	POST SLEEP	HYG BRK/PREBREATHE	CAMPOUT EVA PREP	EMURGE	EMU PREBREATHE	C_LK DPRS	EGRS	SETUP	JLE PL PREP	P6 BATTERY R&R (4)		CLNUP & INGRS	PRPSS
DAY/NIGHT ORBIT															
TDRS WEZ															
ORB ATT	BIAS -XLV -ZVV														
SSRMS POS	MBS PDGF3 @ WS8														
NOTES															

^TERM

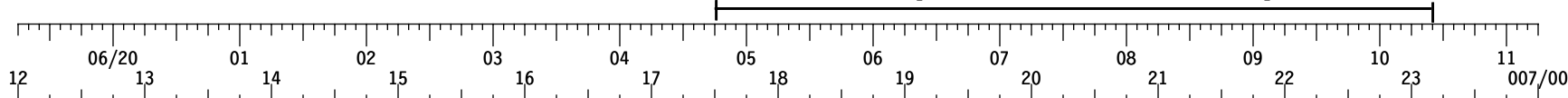
NO UNISOLATED EXERCISE
[SSRMS AT EVA WS, PL PREP & P6 BATT]

FD08

GMT 06/19/09 (170)

MET Day 006

ISS TDRS AVAIL

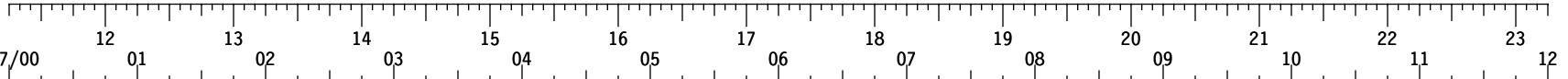


D N	FE-2 WAKATA	SLEEP	PILL	POST SLEEP	PW	DPC	BISP#	EXERCISE CEVIS	EXERCISE TVIS		HANDOVER	MIDDAY-MEAL	HANDOVER	B S A - T	N 2 X F R ^		
	ISS CDR PADALKA	SLEEP		POST SLEEP	PW	DPC		EXERCISE TVIS		IMS	RS-MNT	PPC	MIDDAY-MEAL	COX MNT	EXERCISE CEVIS		
	FE-1 BARRATT	SLEEP	SALIV	POST SLEEP	PW	TEST			EXERCISE TVIS		EXERCISE AREC	MIDDAY-MEAL		G L O V E			
E X P 1 9	FE-2 EXP19 KOPRA	SLEEP	SALIV	POST SLEEP	HYG BRK/ HATCH CLS		CAMPOUT EVA PREP	EMURGE	EMU PREBREATHE	C_LK DPRS	P D P S	EXERCISE CEVIS	HANDOVER	MIDDAY-MEAL	HANDOVER	ADAPT	P R P S
	FE-3 ROMANENKO	SLEEP		POST SLEEP	PW	DPC	VELO				PPC	EXERCISE TVIS	MIDDAY-MEAL				
	FE-4 THIRSK	SLEEP	SALIV	POST SLEEP	PW	DPC					EXERCISE AREC	EXERCISE CEVIS	MIDDAY-MEAL				
E X P 2 0	FE-5 DE WINNE	SLEEP	SALIV	POST SLEEP	PW	DPC		EXERCISE CEVIS				MIDDAY-MEAL		EXERCISE TVIS			
	DAY/NIGHT																
	ORBIT	104		105		106		107		108		109		110		111	
SSRMS POS	#PHOTO																
NOTES	MBS PDGF3 @ WS8																
	^TERM																

FD08

GMT 06/20/09 (171)

MET Day 007

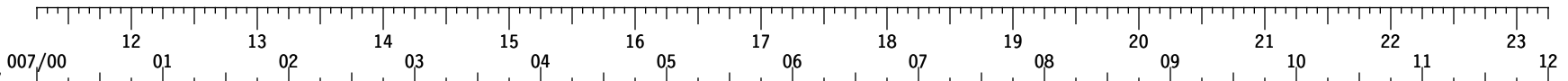


S T S - 1 2 7	CDR POLANSKY	N2 XFR^	C W C - I I O	PRE SLEEP	C T W C - M I	C X F M C E U R S	PRE SLEEP	PMC A/G	PRE SLEEP	SLEEP
	PLT HURLEY	FLTR INSP			M U S		PRE SLEEP		SLEEP	
	MS1 CASSIDY		R P R S	POST EVA W/H2O,METOX			PRE SLEEP		SLEEP	
	MS2 PAYETTE			EXERCISE		M U S	PRE SLEEP		SLEEP	
	MS3 MARSHBURN		R P R S	POST EVA W/H2O,METOX		M U S	PRE SLEEP		SLEEP	
	MS4 WOLF		R P R S	POST EVA W/H2O,METOX			PRE SLEEP		SLEEP	
DAY/NIGHT		[Shaded bars indicating day/night cycle]								
ORBIT		112 113 114 115 116 117 118 119								
TDRS	W E Z	[Timeline with horizontal bars representing TDRS events]								
ORB ATT		-BIAS -XLV -ZVV-								
SSRMS POS		-MBS PDGF3 @ WS8								
NOTES		^TERM								

FD08

GMT 06/20/09 (171)

MET Day 007



ISS	TDRS	AVAIL	Timeline (Hours 12-23)																															
D N	FE-2 WAKATA	N2 XFR^	EX DL	PW	DPC	PW	PRE SLEEP						SLEEP																					
E X P 1 9	ISS CDR PADALKA			PW	DPC	PW	PRE SLEEP						SLEEP																					
	FE-1 BARRATT			PW	DPC	I M A G E	PW	B S A - I	PRE SLEEP						SLEEP																			
U P	FE-2 EXP19 KOPRA	R P S		POST EVA W/H2O,METOX			B S A - I	PRE SLEEP						SLEEP																				
E X P 2 0	FE-3 ROMANENKO			PW	DPC	PW	PRE SLEEP						SLEEP																					
	FE-4 THIRSK			PW	DPC	PW	PRE SLEEP						SLEEP																					
	FE-5 DE WINNE	*		PW	DPC	PW	PPC	PRE SLEEP						SLEEP																				
DAY/NIGHT			Timeline (Hours 12-23)																															
ORBIT			112				113				114				115				116				117				118				119			
SSRMS POS			MBS PDGF3 @ WS8																															
NOTES			*EXERCISE TVIS ^TERM																															

NO UNISOLATED EXERCISE [PL UNBRTH] [PL BERTH] NO UNISOLATED EXERCISE [PL UNBRTH][PL BERTH] NO UNISOLATED EXERCISE [PL UNBRTH] [PL BERTH]

FD09

GMT 06/20/09 (171)

MET Day 007



STS-127	CDR POLANSKY	POST SLEEP	MARXIL	PAM3 SLM OPEN	MAXI%	JRMS MNVR TO EFU1	MB AE X R I T H	MU AN X G I P L		PWR FILL #3	PX W F R E R	MEAL	SEDA AP GRPL	PAM2 SLM OPEN	SEDA *	JRMS MNVR TO EFU9	SEDA AP BRTH	SU EN D G P L A P	ST N V O W	BUS MON STOP	EXERCISE	PE A V O E N T	EVA 4 PROC RW
	PLT HURLEY	POST SLEEP	EXERCISE	PS O L S E T P	C W C N - 2 I 1		CT W E N C R I - M T I / 2	XFER OPS	CT W E R - M I	CWC-I XFER	N 2 *	MEAL	SEDA AP GRPL	PAM2 SLM OPEN	SEDA *	JRMS MNVR TO EFU9	SEDA AP BRTH	SU EN D G P L A P	D P R P	XFER OPS	PE A V O E N T	EVA 4 PROC RW	
	MS1 CASSIDY	POST SLEEP	EVA 4 TOOL CFG					EXERCISE			B M I A E N T T S T X T L	E-LK PREP		MEAL							PE A V O E N T	EVA 4 PROC RW	
	MS2 PAYETTE	POST SLEEP	XFER OPS	P G T V A V I C I R I	P H T V W	XFER OPS	ICS GRPL	PAM1 SLM OPEN	ICS %	JRMS MNVR TO EFU7	I B C S R T H	I U C N G P L		MEAL		EXERCISE					PE A V O E N T	EVA 4 PROC RW	
	MS3 MARSHBURN	POST SLEEP	XU F P R D A T	EVA 4 TOOL CFG			B S A - T	B S A - I	M T X - T	EMU RCNFG/SWAP EVA 4	B M I A E N T T S T X T L	E-LK PREP		MEAL	EXERCISE	XFER OPS		X T F A E G R	B R I E F		PE A V O E N T	EVA 4 PROC RW	
	MS4 WOLF	POST SLEEP	GLACIER XFER STS	C N F G \$	EVA 4 TOOL CFG		M D D K #		EMU RCNFG/SWAP EVA 4	XFER OPS		EXERCISE	MEAL		XFER OPS		X T F A E G R				PE A V O E N T	EVA 4 PROC RW	



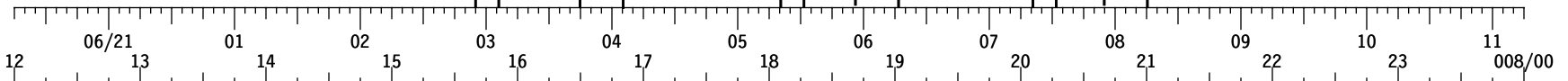
ORB ATT -BIAS -XLV -ZVV
 SSRMS POS -MBS PDGF3 @ WS8

NOTES %UNBRTH \$GLACIER *RPRS INIT #STATUS CHECK *UNBRTH *RPRS TERM *UNBRTH

NO UNISOLATED EXERCISE [PL UNBRTH] [PL BERTH] NO UNISOLATED EXERCISE [PL UNBRTH][PL BERTH] NO UNISOLATED EXERCISE [PL UNBRTH] [PL BERTH]

FD09

GMT 06/20/09 (171)



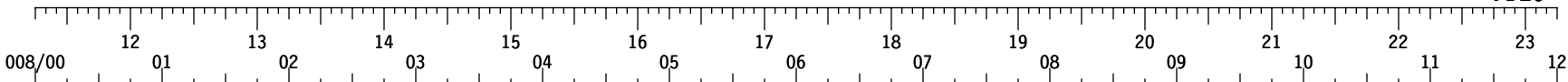
MET Day 007

ISS	TDRS	AVAIL																									
D N	FE-2 WAKATA	POST SLEEP	PW	DPC	F N L A C T	B U S	M A R P L	P A M 3 S L M O P E N	M A X I %	J R M S M N V R T O E F U 1	M B A E R I T H	M U A N X I P L	MIDDAY-MEAL					HANDOVER			EXERCISE TVIS		EXERCISE CEVIS		EVA 4 PROC RVW		
	ISS CDR PADALKA	POST SLEEP	PW	DPC	EXERCISE TVIS				RS-MNT			COX MNT		MIDDAY-MEAL					IMS			EXERCISE ARED		EVA 4 PROC RVW			
E X P 1 9	FE-1 BARRATT	POST SLEEP	PW	DPC	D 2 X S	C M O B T					H D S U	EXERCISE TVIS		MIDDAY-MEAL					D 2 X S	EXERCISE ARED			D 2 X S C A M R	EVA 4 PROC RVW			
	FE-2 EXP19 KOPRA	POST SLEEP	PW	DPC	EXERCISE CEVIS			GLACIER XFER ISS			CMRS C/O		ICS GRPL	PAM1 SLM OPEN	ICS %	J R M S M N V R T O E F U 7	I B C E R T H	I U C N S G P L	MIDDAY-MEAL			HANDOVER			W T I E N S T C A T	O H A T E S T	I M A K U N P A C K
E X P 2 0	FE-3 ROMANENKO	POST SLEEP	PW	DPC	R S P C /O	EXERCISE TVIS				MIDDAY-MEAL					HANDOVER			VELO			EVA 4 PROC RVW						
	FE-4 THIRSK	POST SLEEP	PW	DPC	EXERCISE ARED				CMRS C/O		MIDDAY-MEAL					HANDOVER			EXERCISE CEVIS		EVA 4 PROC RVW						
	FE-5 DE WINNE	POST SLEEP	PW	DPC	R S P C /O	EXERCISE CEVIS				EXERCISE TVIS		MIDDAY-MEAL			HANDOVER			VELO			EVA 4 PROC RVW						
DAY/NIGHT			[Timeline bar with day/night indicators]																								
ORBIT			119	120	121	122	123	124	125	126	127																
SSRMS POS			MBS PDGF3 @ WS8																								
NOTES			%UNBRTH																								

FD09

GMT 06/21/09 (172)

MET Day 008



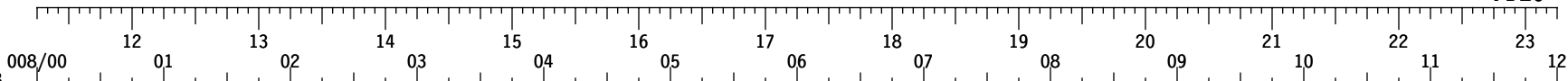
STS-127	CDR POLANSKY	EVA 4 PROC RVW	IM MU US	PRE SLEEP	PMC A/G	PRE SLEEP	SLEEP	POST SLEEP	
	PLT HURLEY	EVA 4 PROC RVW	M US	PRE SLEEP			SLEEP	POST SLEEP	
	MS1 CASSIDY	EVA 4 PROC RVW		PRE SLEEP	MASK PB/TOOL CONFIG	PRE SLEEP	SLEEP	PST SLP	
	MS2 PAYETTE	EVA 4 PROC RVW	PRE SLEEP	C E S V A E N T A O	PRE SLEEP		SLEEP	POST SLEEP	
	MS3 MARSHBURN	EVA 4 PROC RVW		PRE SLEEP	MASK PB/TOOL CONFIG	PRE SLEEP	SLEEP	PST SLP	
	MS4 WOLF	EVA 4 PROC RVW	M D D K #	PRE SLEEP			SLEEP	POST SLEEP	
DAY/NIGHT ORBIT									
TDRS	W E Z								
ORB ATT		BIAS -XLV -ZVV							
SSRMS POS		MBS PDGF3 @ WS8							
NOTES		#STATUS CHECK							

FD09

FD10

GMT 06/21/09 (172)

MET Day 008



ISS	TDRS	AVAIL	Timeline (12:00 to 23:00)																
D N	FE-2 WAKATA	EVA 4 PROC RVW	DPC	PW	PRE SLEEP						SLEEP						POST SLEEP		
E X P 1 9	ISS CDR PADALKA	EVA 4 PROC RVW	DPC	PW	PRE SLEEP						SLEEP						POST SLEEP		
	FE-1 BARRATT	EVA 4 PROC RVW	DPC	PW	EX DL	PRE SLEEP						SLEEP						POST SLEEP	
U P	FE-2 EXP19 KOPRA	EVA 4 PROC RVW	DPC	PW	PRE SLEEP						SLEEP						POST SLEEP		
E X P 2 0	FE-3 ROMANENKO	EVA 4 PROC RVW	DPC	PW	PRE SLEEP						SLEEP						POST SLEEP		
	FE-4 THIRSK	EVA 4 PROC RVW	DPC	PW	PS RL E P A O	CE SV E N T	PRE SLEEP						SLEEP						POST SLEEP
	FE-5 DE WINNE	EVA 4 PROC RVW	DPC	PW	PRE SLEEP						SLEEP						POST SLEEP		
DAY/NIGHT			Timeline (12:00 to 23:00)																
ORBIT			127	128	129	130	131	132	133	134	135								
SSRMS POS			MBS PDGF3 @ WS8																
NOTES																			

NO UNISOLATED EXERCISE
[SSRMS AT EVA WS, P6 BATT & VE INSTALL]

NO EXERCISE
[DUAL ARM OPS]

FD10

GMT 06/21/09 (172)

MET Day 008

		06/22												01												02												03												04												05												06												07												08												09												10												11												009/00											
		12												13												14												15												16												17												18												19												20												21												22												23																							
STS-127	CDR POLANSKY	POST SLEEP												EXERCISE												P/TV 07 S/U												P/TV 07 EVA SUPT												PWR FILL #4												MEAL												ICC GRPL												RMS ICC BERTH												DAP*																																																											
	PLT HURLEY	POST SLEEP												EXERCISE												SSRMS ICC MVR EVA WS												SSRMS EVA 4 SUPT												MCIU*												ICC GRPL												RMS ICC BERTH												MUS																																																																							
	MS1 CASSIDY	HYG BRK/PREBREATHE												CAMPOUT EVA PREP												EMU PREBREATHE												C LK DPRS												P6 BATT R&R(2) & C/U												EVA 4 - 6:30												THR RACK RLCT												JEF AFT VE INSTALL												CLNUP & INGRS												PST EVA																																															
	MS2 PAYETTE	POST SLEEP												SSRMS ICC MVR EVA WS												SSRMS EVA 4 SUPT												ICC MVR H/O												SSRMS ICC RLS												EXER																																																																																															
	MS3 MARSHBURN	HYG BRK/PREBREATHE												CAMPOUT EVA PREP												EMU PREBREATHE												C LK DPRS												P6 BATT R&R(2) & C/U												THR RACK RLCT												JEF AFT VE INSTALL												CLNUP & INGRS												PST EVA																																																											
	MS4 WOLF	POST SLEEP												HYG BRK/HATCH CLS												CAMPOUT EVA PREP												EMU PREBREATHE												C LK DPRS												P/TV 07 EVA SUPT												MEAL												P/TV 07 EVA SUPT												PST EVA																																																											
DAY/NIGHT ORBIT		135												136												137												138												139												140												141												142												143																																																											
TDRS WEZ		[TDRS WEZ]												[TDRS WEZ]												[TDRS WEZ]												[TDRS WEZ]												[TDRS WEZ]												[TDRS WEZ]												[TDRS WEZ]												[TDRS WEZ]												[TDRS WEZ]																																																											
ORB ATT		[ORB ATT]												[ORB ATT]												[ORB ATT]												[ORB ATT]												[ORB ATT]												[ORB ATT]												[ORB ATT]												[ORB ATT]												[ORB ATT]												[ORB ATT]																																															
SSRMS POS		[SSRMS POS]												[SSRMS POS]												[SSRMS POS]												[SSRMS POS]												[SSRMS POS]												[SSRMS POS]												[SSRMS POS]												[SSRMS POS]												[SSRMS POS]												[SSRMS POS]																																															
NOTES														*COMPACT												#STATUS CHECK																																				*FILTER CK												*UPDATE																																																																																			

NO UNISOLATED EXERCISE
[SSRMS AT EVA WS, P6 BATT & VE INSTALL]

NO EXERCISE
[DUAL ARM OPS]

FD10

GMT 06/21/09 (172)

MET Day 008

ISS		TDRS	AVAIL	06/22 01 02 03 04 05 06 07 08 09 10 11 009/00																						
D N	FE-2 WAKATA	POST SLEEP	PW	DPC	EXERCISE CEVIS	EXERCISE TVIS												MIDDAY-MEAL	ICC MVR H/O		SSRMS ICC RLS		PW			
	ISS CDR PADALKA	POST SLEEP	PW	DPC			EXERCISE TVIS		RS-MNT		MIDDAY-MEAL									COX MNT	IMS		VELO	PW		
E X P 1 9	FE-1 BARRATT	POST SLEEP	PW	DPC	EXERCISE ARED				EXERCISE TVIS		MIDDAY-MEAL										B S A - T	G L O V E		I M A G E	E X D L	PW
	FE-2 EXP19 KOPRA	POST SLEEP	HYG BRK/ HATCH CLS		CAMPOUT EVA PREP	E P M U R G E	EMU PREBREATHE	C LK DPRS																		P R P R S
E X P 2 0	FE-3 ROMANENKO	POST SLEEP	PW	DPC	EXERCISE TVIS						MIDDAY-MEAL													EXERCISE CEVIS	PW	
	FE-4 THIRSK	POST SLEEP	PW	DPC		BRD IY/ OTL H2 MA	EXERCISE CEVIS	EXERCISE ARED				MIDDAY-MEAL									T R E E P L C O C				PW	
	FE-5 DE WINNE	POST SLEEP	PW	DPC		BRD IY/ OTL H2 MB	EXERCISE CEVIS	EXERCISE ARED			MIDDAY-MEAL														PW	
DAY/NIGHT		06/22 01 02 03 04 05 06 07 08 09 10 11 009/00																								
ORBIT		135	136	137	138	139	140	141	142	143																
SSRMS POS		MBS PDGF3 @ WS8																								
NOTES																										

FD10

GMT 06/22/09 (173)

FD11

MET Day 009

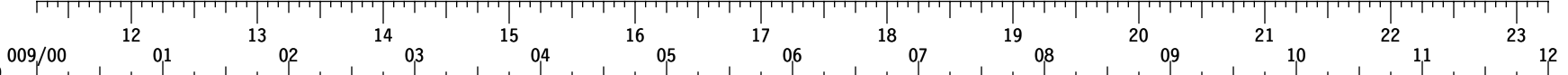
		009/00 12 01 13 02 14 03 15 04 16 05 17 06 18 07 19 08 20 09 21 10 22 11 23 12																								
STS-127	CDR POLANSKY	M UPMC SA/G	PRE SLEEP												SLEEP						POST SLEEP					
	PLT HURLEY		PRE SLEEP												SLEEP						POST SLEEP					
	MS1 CASSIDY	PST EVA	PRE SLEEP												SLEEP						S A L P O V R G A N POST SLEEP					
	MS2 PAYETTE	E X E R M S	PRE SLEEP												SLEEP						POST SLEEP					
	MS3 MARSHBURN	PST EVA	PRE SLEEP												SLEEP						S A L P O V R G A N POST SLEEP					
	MS4 WOLF	PST EVA #KDDM	PRE SLEEP												SLEEP						S L V A POST SLEEP					
DAY/NIGHT		[Bar chart showing day/night cycle]																								
ORBIT		143 144 145 146 147 148 149 150 151																								
TDRS		[Bar chart showing TDRS activity]																								
ORB ATT		-BIAS -XLV -ZVV-																								
SSRMS POS		-MBS PDGF3 @ WS8																								
NOTES		#STATUS CHECK																								

FD10

FD11

GMT 06/22/09 (173)

MET Day 009

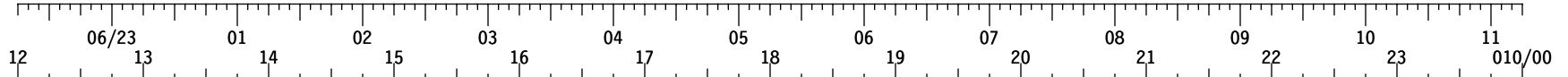


ISS	TDRS	AVAIL																				
D N	FE-2 WAKATA	PWDP	PC	PW	PRE SLEEP	SLEEP												POST SLEEP				
E X P 1 9	ISS CDR PADALKA	PWDP	PC	PW	PRE SLEEP	SLEEP												POST SLEEP				
	FE-1 BARRATT					PWDP	PC	PW	PRE SLEEP	SLEEP												POST SLEEP
U P	FE-2 EXP19 KOPRA	PST EVA	B S A - I	PW	PRE SLEEP					SLEEP												POST SLEEP
E X P 2 0	FE-3 ROMANENKO	PWDP	PC	PW	PRE SLEEP	SLEEP												POST SLEEP				
	FE-4 THIRSK					PWDP	PC	PW	PRE SLEEP	SLEEP												POST SLEEP
	FE-5 DE WINNE									PWDP	PC	PW	PRE SLEEP	SLEEP								
DAY/NIGHT																						
ORBIT		143	144	145	146	147	148	149	150	151												
SSRMS POS		MBS PDGF3 @ WS8																				
NOTES																						

FD11

GMT 06/22/09 (173)

MET Day 009



STS-127	CDR POLANSKY	POST SLEEP	02 XFER RECONFIG	PEVENT	EXERCISE	OFF DUTY	PFC OCA	OFF DUTY	OFF DUTY	MEAL	OFF DUTY	PRE SLEEP	
	PLT HURLEY	POST SLEEP	COND CWC/O	PEVENT	OFF DUTY	EXERCISE	MEAL	OFF DUTY	PFC OCA	OFF DUTY	PRE SLEEP		
	MS1 CASSIDY	POST SLEEP	LIQH EXCHG	PEVENT	OFF DUTY	EXERCISE	OFF DUTY	MEAL	OFF DUTY	PFC OCA	OFF DUTY	PRE SLEEP	
	MS2 PAYETTE	POST SLEEP		PEVENT	OFF DUTY	EXERCISE	OFF DUTY	MEAL	OFF DUTY	PFC OCA	OFF DUTY	PRE SLEEP	
	MS3 MARSHBURN	POST SLEEP	MDK#	BSA-T	PEVENT	OFF DUTY	EXERCISE	OFF DUTY	MEAL	OFF DUTY	PFC OCA	OFF DUTY	PRE SLEEP
	MS4 WOLF	POST SLEEP	MTX-I	PEVENT	OFF DUTY	EXERCISE	OFF DUTY	MEAL	OFF DUTY	PFC OCA	OFF DUTY	PRE SLEEP	

DAY/NIGHT	151	152	153	154	155	156	157	158
ORBIT	[Shaded bars indicating orbit status]							

TDRS	W	E	Z	[Timeline bars for TDRS W, E, Z]				
------	---	---	---	----------------------------------	--	--	--	--

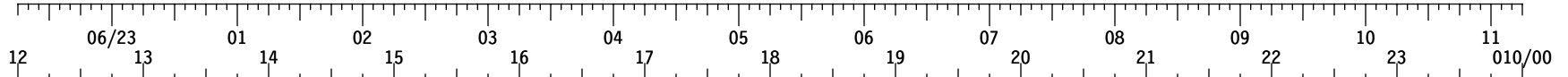
ORB ATT -BIAS -XLV -ZVV
 SSRMS POS -MBS PDGF3 @ WS8

NOTES	*FILTER CK #STATUS CHECK	#STATUS CHECK
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FD11

GMT 06/22/09 (173)

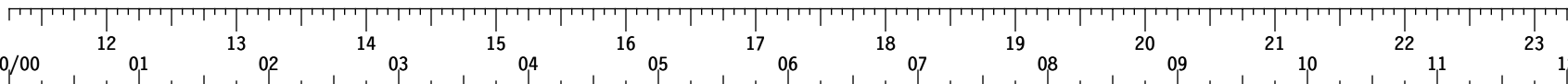
MET Day 009



ISS	TDRS	AVAIL																
D N	FE-2 WAKATA	POST SLEEP	OFF DUTY	02 XFER RECONFIG	02-I	EXERCISE TVIS	OFF DUTY	MIDDAY-MEAL	HANDOVER	OFF DUTY			EXERCISE CEVIS	PW	DPC	PW		
		E X P 1 9	ISS CDR PADALKA	POST SLEEP	OFF DUTY	VELO	OFF DUTY		MIDDAY-MEAL	OFF DUTY	COX MNT	OFF DUTY	EXERCISE TVIS	OFF DUTY	IMS	PW	DPC	PW
			FE-1 BARRATT	POST SLEEP	OFF DUTY	HD SU	OFF DUTY		EXERCISE CEVIS	MIDDAY-MEAL	OFF DUTY			EXERCISE ARED	EXD	PW	DPC	PW
U P	FE-2 EXP19 KOPRA	POST SLEEP	OFF DUTY	02 XFER RECONFIG	02-I	OFF DUTY		MIDDAY-MEAL	HANDOVER	OFF DUTY	EXERCISE ARED	OFF DUTY			PW	DPC	PW	
E X P 2 0	FE-3 ROMANENKO	POST SLEEP	OFF DUTY			EXERCISE TVIS	MIDDAY-MEAL	OFF DUTY				VELO	PW	DPC	PW			
	FE-4 THIRSK	POST SLEEP	OFF DUTY	ASR/EUD	OFF DUTY	EXERCISE CEVIS	EXERCISE ARED	MIDDAY-MEAL	BIO RHYTHM REC 2A	OFF DUTY			ASR/EOD	PW	DPC	PW		
	FE-5 DE WINNE	POST SLEEP	OFF DUTY	TOCA	EXERCISE CEVIS	EXERCISE ARED	TOCA	OFF DUTY	MIDDAY-MEAL	BIO REC 2B	OFF DUTY			PW	DPC	PW		
DAY/NIGHT		[Timeline bars]																
ORBIT		151	152	153	154	155	156	157	158									
SSRMS POS		MBS PDGF3 @ WS8																
NOTES																		

FD11

GMT 06/23/09 (174)



MET

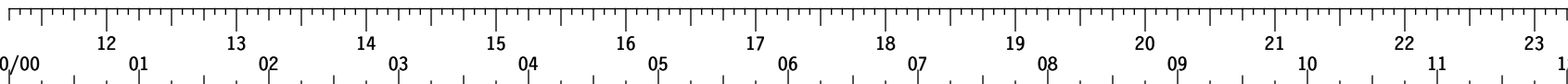
Day 010

S T S - 1 2 7	CDR POLANSKY	PRE SLEEP	PMC A/G	PRE SLEEP	SLEEP				POST SLEEP
	PLT HURLEY	PRE SLEEP		SLEEP				POST SLEEP	
	MS1 CASSIDY	PRE SLEEP		SLEEP				LOG POST SLEEP	
	MS2 PAYETTE	PRE SLEEP		SLEEP				POST SLEEP	
	MS3 MARSHBURN	PRE SLEEP		SLEEP				LOG POST SLEEP	
	MS4 WOLF	PRE SLEEP		SLEEP				POST SLEEP	
DAY/NIGHT		[Bar chart showing day/night cycle]							
ORBIT		159	160	161	162	163	164	165	166
TDRS	W E Z	[Timeline of TDRS events]							
ORB ATT		-BIAS -XLV -ZVV-							
SSRMS POS		-MBS PDGF3 @ WS8							
NOTES									

FD11

GMT 06/23/09 (174)

MET Day 010



ISS	TDRS	AVAIL							
D N	FE-2 WAKATA	PRE SLEEP	SLEEP		POST SLEEP				
E X P 1 9	ISS CDR PADALKA	PRE SLEEP	SLEEP		POST SLEEP				
	FE-1 BARRATT	PRE SLEEP	SLEEP		POST SLEEP				
	FE-2 EXP19 KOPRA	PRE SLEEP	SLEEP		POST SLEEP				
E X P 2 0	FE-3 ROMANENKO	PRE SLEEP	SLEEP		POST SLEEP				
	FE-4 THIRSK	PRE SLEEP	SLEEP		POST SLEEP				
	FE-5 DE WINNE	PRE SLEEP	SLEEP		POST SLEEP				
DAY/NIGHT									
ORBIT		159	160	161	162	163	164	165	166
SSRMS POS		MBS PDGF3 @ WS8							
NOTES									

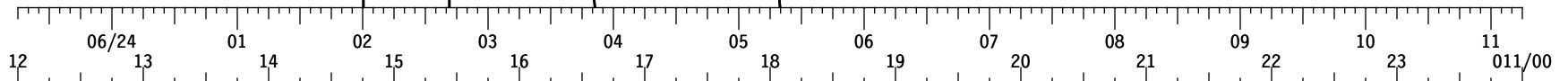
**NO UNISOLATED
EXERCISE**
[MT XLATE]

NO EXERCISE
[DUAL ARM OPS]

FD12

GMT 06/23/09 (174)

MET Day 010



STS-127	CDR POLANSKY	POST SLEEP	EXERCISE	P TV 06 RMS JLE GRPL	RMS JLE BERTH	02 P/B CONFIG	PEAVENT	MEAL	CREW CONF	CPH EOWT O	EVA 5 PROC RVW	EVA 5 PROC RVW	PRE SLEEP
	PLT HURLEY	POST SLEEP	JLE UINSTL	JLE RLS	EXERCISE	PWR FILL #5	DUMP EQUIP GTHR	MEAL	CREW CONF	CPH EOWT O	EVA 5 PROC RVW		PRE SLEEP
	MS1 CASSIDY	POST SLEEP	EVA 5 TOOL CONFG		EMU SWAP EVA5	E-LK PREP		MEAL	EXERCISE	CREW CONF	CPH EOWT O	EVA 5 PROC RVW	PRE SLEEP
	MS2 PAYETTE	POST SLEEP	RMS JLE GRPL	RMS JLE BERTH	PCRL LOASE	XFER OPS		MEAL	EXERCISE	CREW CONF	CPH EOWT O	EVA 5 PROC RVW	PRE SLEEP
	MS3 MARSHBURN	POST SLEEP	EVA 5 TOOL CONFG		EMU SWAP EVA5	E-LK PREP		MEAL	EXERCISE	XFER OPS	CPH EOWT O	EVA 5 PROC RVW	PRE SLEEP
	MS4 WOLF	POST SLEEP	EXERCISE	POST SLEEP	EVA 5 TOOL CONFG	H2O CWC S/U	XFER OPS	MEAL	XFER OPS	CREW CONF	CPH EOWT O	EVA 5 PROC RVW	PRE SLEEP

DAY/NIGHT	ORBIT	167	168	169	170	171	172	173	174	
TDRS	W E Z	[Timeline bars for TDRS]								
ORB ATT		BIAS -XLV -ZVV			DUMP			BIAS -XLV -ZVV		
SSRMS POS		MBS PDGF3 @ WS8			MT XLATE			MBS PDGF3 @ WS4		
NOTES		*RPRS INIT ^FILTER CHECK #STATUS CHECK			*RPRS TERM &DEACT #PARK			^DUMP ^TEA #STATUS CHECK		

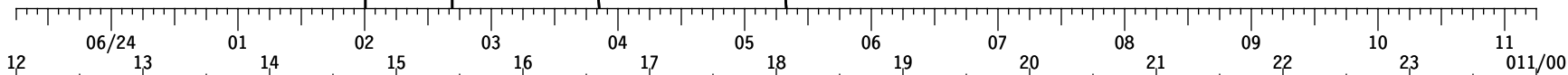
**NO UNISOLATED
EXERCISE**
[MT XLATE]

NO EXERCISE
[DUAL ARM OPS]

FD12

GMT 06/23/09 (174)

MET Day 010



ISS	TDRS	AVAIL																																																																
D N	FE-2 WAKATA	PW	DPC	EXERCISE CEVIS												D P R P	MIDDAY-MEAL			H D S U	P R E P	P E A V E N T	EXERCISE TVIS			HAND OVER			P R E P	CREW CONF		C P R H E O W T O	EVA 5 PROC RVW		D P C	P W	P R E S L E E P																													
E X P 1 9	ISS CDR PADALKA	PW	DPC	EXERCISE TVIS												D P R P	MIDDAY-MEAL			H D S U	P R E P	P E A V E N T	IMS		COX MNT		VELO			P R E P	CREW CONF		C P R H E O W T O	EVA 5 PROC RVW		D P C	P W	P R E S L E E P																												
U P	FE-1 BARRATT	PW	DPC	D T O C A	EXERCISE AREC												D 2 X S	MIDDAY-MEAL			H D S U	P R E P	P E A V E N T	CSA CP Z CAL		D2XS CAMR		EXERCISE CEVIS			P R E P	CREW CONF		C P R H E O W T O	EVA 5 PROC RVW		D P C	P W	P R E S L E E P																											
E X P 2 0	FE-2 KOPRA	PW	DPC	F O S P D	J G L R E P L	JLE UINSTL		JLE RLS		EXERCISE TVIS			M O N I T #	02 P/B CONFIG			MIDDAY-MEAL			HAND OVER			P R E P	CREW CONF		C P R H E O W T O	EVA 5 PROC RVW		D P C	P W	P R E S L E E P																																			
E X P 2 0	FE-3 ROMANENKO	PW	DPC	VELO												D P R P	MIDDAY-MEAL			EXERCISE TVIS			P R E P	CREW CONF		C P R H E O W T O	EVA 5 PROC RVW		D P C	P W	P R E S L E E P																																			
E X P 2 0	FE-4 THIRSK	PW	DPC	EXERCISE CEVIS						EXERCISE AREC						MIDDAY-MEAL			P R E P	CREW CONF		C P R H E O W T O	EVA 5 PROC RVW		D P C	P W	P R E S L E E P																																							
E X P 2 0	FE-5 DE WINNE	PW	DPC	EXERCISE CEVIS												D P R P	MIDDAY-MEAL			EXERCISE AREC			P R E P	CREW CONF		C P R H E O W T O	EVA 5 PROC RVW		D P C	P W	P R E S L E E P																																			
DAY/NIGHT																																																																		
ORBIT			167								168								169								170								171								172								173								174							
SSRMS POS			MBS PDGF3 @ WS8 #PARK MT XLATE MBS PDGF3 @ WS4																																																															
NOTES																																																																		

FD12

GMT 06/24/09 (175)

MET Day 011 011/00 12 01 13 02 14 03 15 04 16 05 17 06 18 07 19 08 20 09 21 10 22 11 23 12

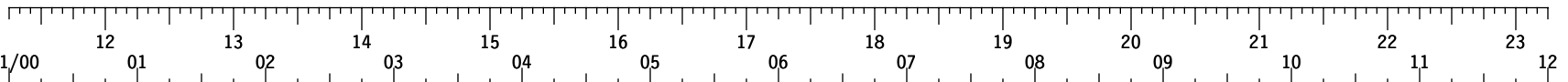
STS-127	CDR POLANSKY	PS RL EE EP	PMC A/G	PRE SLEEP	SLEEP	PS OL SE TE P	PMC A/G	POST SLEEP	
	PLT HURLEY			PRE SLEEP	SLEEP			POST SLEEP	
	MS1 CASSIDY	PRE SLEEP	MASK PB/TOOL CONFIG	PRE SLEEP	ISS A/L CAMPOUT @ 10.2 psi	POST SLEEP		HYG BRK/ PBRTH * 14.7 RPRS 10.2 DPRS	
	MS2 PAYETTE			PRE SLEEP	SLEEP			POST SLEEP	
	MS3 MARSHBURN	PRE SLEEP	MASK PB/TOOL CONFIG	PRE SLEEP	SLEEP	POST SLEEP		HYG BRK/ PBRTH @	
	MS4 WOLF			PRE SLEEP	SLEEP		S L V A	POST SLEEP M D D K # HYG BRK/ HATCH CLS *	
DAY/NIGHT ORBIT		174 175 176 177 178 179 180 181 182							
TDRS	W E Z	[Timeline of TDRS events]							
ORB ATT		BIAS -XLV -ZVV							
SSRMS POS		MBS PDGF3 @ WS4							
NOTES									

*CAMPOUT E
@CAMPOUT E
♦CAMPOUT E
#STATUS CHECK

FD12

GMT 06/24/09 (175)

MET Day 011



ISS	TDRS	AVAIL														
D N	FE-2 WAKATA	PRE SLEEP	SLEEP												POST SLEEP	PW
E X P 1 9	ISS CDR PADALKA	PRE SLEEP	SLEEP												POST SLEEP	PW
	FE-1 BARRATT	PRE SLEEP	SLEEP												DRY POST SLEEP	PW
U P	FE-2 EXP19 KOPRA	PRE SLEEP	SLEEP												DRY POST SLEEP	HYG BRK/ HATCH CLS *
E X P 2 0	FE-3 ROMANENKO	PRE SLEEP	SLEEP												POST SLEEP	PW
	FE-4 THIRSK	PRE SLEEP	SLEEP												DRY POST SLEEP	PW
	FE-5 DE WINNE	PRE SLEEP	SLEEP												DRY POST SLEEP	PW
DAY/NIGHT			[Bar chart showing day/night cycle]													
ORBIT			174	175	176	177	178	179	180	181	182					
SSRMS POS			MBS PDGF3 @ WS4													
NOTES																

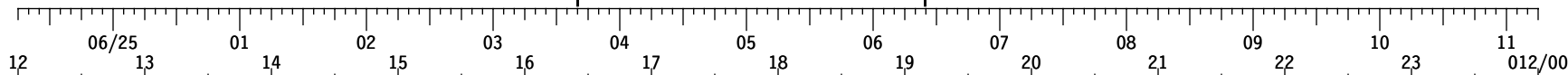
*CAMPOUT E

**NO EXERCISE
[PAS DEPLOY]**

FD13

GMT 06/24/09 (175)

MET Day 011

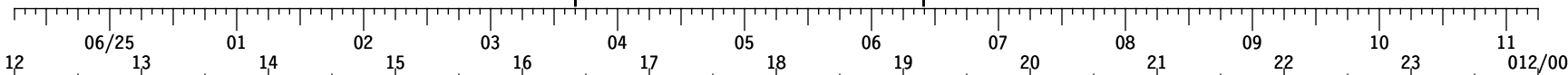


STS-127	CDR POLANSKY	POST SLEEP	IPNAI HDM IB	XU FMR D A T	EXERCISE	P/TV 07 S/U	P/TV 07 EVA SUPT				MEAL	P/TV 07 EVA SUPT				XT FAG ER	B R I E F	M U S	PRE SLEEP	PMC A/G L P		
	PLT HURLEY	POST SLEEP			XFER OPS		EXERCISE		XFER OPS		MEAL		XFER OPS		XT FAG ER	M U S		PRE SLEEP				
	MS1 CASSIDY	CAMPOUT EVA PREP		E P M U R G E	EMU PREBREATHE	C_LK DPRS	P E R S	S E T U P	Z1 PATCH PANEL	S3 NADIR OUTBD PAS EVA 5 - 6:30	S3 NADIR INBD PAS	CP1 WETA INSTL	GET AHEADS	CLNUP & INGRS	P R P R S	POST EVA W/H2O,METOX			PRE SLEEP			
	MS2 PAYETTE	POST SLEEP		FLTR INSP	C I W N C I # 2	EXERCISE	C T W E R M	C X W F C E R	XFER OPS			MEAL	XFER OPS			PTV08 SETUP	PTV08 EXTRNL SRVY	M U S	PRE SLEEP			
	MS3 MARSHBURN	CAMPOUT EVA PREP		E P M U R G E	EMU PREBREATHE	C_LK DPRS	P E R S	S E T U P	SPDM COVERS	S3 NADIR OUTBD PAS	S3 NADIR INBD PAS	CP1 WETA INSTL	GET AHEADS	CLNUP & INGRS	P R P R S	POST EVA W/H2O,METOX			PRE SLEEP			
	MS4 WOLF	CAMPOUT EVA PREP		E P M U R G E	EMU PREBREATHE	C_LK DPRS	P E R S	IVA SUPPORT EVA 5										P R P R S	POST EVA W/H2O,METOX			PRE SLEEP
DAY/NIGHT		ORBIT		182	183	184	185	186	187	188	189	190										
TDRS	W	[Timeline bars for TDRS]																				
ORB ATT	E	[Timeline bars for ORB ATT]																				
SSRMS POS	Z	[Timeline bars for SSRMS POS]																				
		BIAS -XLV -ZVV																				
		MBS PDGF3 @ WS4																				
		W/O																				
NOTES		#STATUS CHECK																				

**NO EXERCISE
[PAS DEPLOY]**

FD13

GMT 06/24/09 (175)



MET Day 011

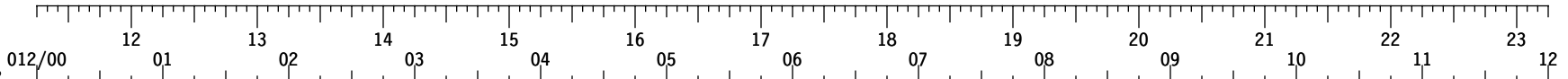


D N	FE-2 WAKATA	DPC	EXERCISE CEVIS					HANDOVER	MIDDAY-MEAL	HANDOVER				EXERCISE TVIS	EX DL	PW	DPC	PW	PRE SLEEP
	ISS CDR PADALKA	DPC	PHS W/O BLD SUBJ					EXERCISE TVIS	MIDDAY-MEAL	COX MNT	VELO			IMS	PW	DPC	PW	PRE SLEEP	
E X P 1 9	FE-1 BARRATT	DPC	PHS W/O BLD CMO	PHS W/O BLD SUBJ	EXERCISE TVIS	EXERCISE ARED	PHS STOW	A E D	MIDDAY-MEAL	G L O V E			EVA CAM RCNFG	DPC	PW	PRE SLEEP			
	FE-2 EXP19 KOPRA	CAMPOUT EVA PREP		E P M U R G E	EMU PREBREATHE	C LK DPRS	P D P S	EXERCISE CEVIS	HANDOVER	MIDDAY-MEAL	HANDOVER			P L T R S D P R S	POST EVA W/H2O,METOX		PRE SLEEP		
E X P 2 0	FE-3 ROMANENKO	DPC	EXERCISE TVIS	VELO						MIDDAY-MEAL					PW	DPC	PW	PRE SLEEP	
	FE-4 THIRSK	DPC	PHS W/O BLD CMO		EXERCISE CEVIS					MIDDAY-MEAL	EXERCISE ARED			PW	DPC	PW	PRE SLEEP		
	FE-5 DE WINNE	DPC	PCDF PU DEINST		PCDF XFER	E D C R N F L G R					MIDDAY-MEAL	EXERCISE ARED		EXERCISE CEVIS	PW	DPC	PW	PRE SLEEP	
DAY/NIGHT		[Bar chart showing day/night cycle]																	
ORBIT		182	183	184	185	186	187	188	189	190									
SSRMS POS		MBS PDGF3 @ WS4																	
NOTES																			

FD13

FD14

GMT 06/25/09 (176)



MET Day 012

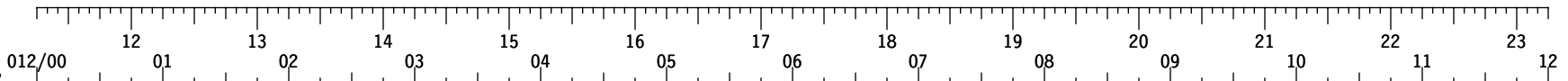
S T S - 1 2 7	CDR POLANSKY	PRE SLP	SLEEP	POST SLEEP
	PLT HURLEY	PRE SLEEP	SLEEP	POST SLEEP
	MS1 CASSIDY	PRE SLEEP	SLEEP	POST SLEEP
	MS2 PAYETTE	PRE SLEEP	SLEEP	POST SLEEP
	MS3 MARSHBURN	PRE SLEEP	SLEEP	POST SLEEP
	MS4 WOLF	PRE SLEEP	SLEEP	POST SLEEP
DAY/NIGHT		[Bar chart showing day/night cycle]		
ORBIT		[Bar chart showing orbit parameters 190-198]		
TDRS	W E Z	[Bar chart showing TDRS activity]		
ORB ATT		BIAS -XLV -ZVV		
SSRMS POS		-W/O- NODE2 PDGF @ WS4		
NOTES				

FD14

FD13

GMT 06/25/09 (176)

MET Day 012



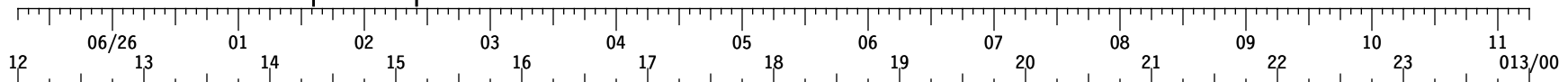
ISS	TDRS	AVAIL																		
D N	FE-2 WAKATA	PRE SLEEP	SLEEP												POST SLEEP	PW	DPC	PW	H/O	
		ISS CDR PADALKA	PRE SLEEP	SLEEP												POST SLEEP	PW	DPC	PW	T V I S
E X P 1 9	FE-1 BARRATT	PRE SLEEP	SLEEP												POST SLEEP	PW	DPC	PW	C E V I S	
		FE-2 EXP19 KOPRA	PRE SLEEP	SLEEP												POST SLEEP	PW	DPC	PW	H/O
E X P 2 0	FE-3 ROMANENKO	PRE SLEEP	SLEEP												POST SLEEP	PW	DPC	PW	V E L O	
		FE-4 THIRSK	PRE SLEEP	SLEEP												POST SLEEP	PW	DPC	ARE	D
		FE-5 DE WINNE	PRE SLEEP	SLEEP												POST SLEEP	PW	DPC	PW	P C S
DAY/NIGHT			[Bar chart showing day/night cycles]																	
ORBIT			190	191	192	193	194	195	196	197	198									
SSRMS POS			W/O			NODE2 PDGF @ WS4														
NOTES																				

NO EXERCISE
[DUAL ARM OPS]

FD14

GMT 06/25/09 (176)

MET Day 012



STS-127	CDR POLANSKY	POST SLEEP	M P N R V G R P L	M R L @	EXERCISE	R G M R S P L	RNDZ TOOLS C/O	XFER OPS		N I 2 M * U	MEAL	PEAVO ENT	N 2 * TEARDOWN	F W A E R L E L	H / O	ODS LEAK CHECK	M U S	PRE SLEEP	P M C A / G	P R E S L P			
	PLT HURLEY	POST SLEEP	M M C N R V G R P L	M R L @		R G M R S P L	RNDZ TOOLS C/O	XFER OPS	EXERCISE		MEAL	PEAVO ENT		F W A E R L E L	HATCH CLOSE	ODS LEAK CHECK	M U S	PRE SLEEP					
	MS1 CASSIDY	P S O L S E T E P	EXERCISE		W C I L W N E C I T # 3	XFER OPS	C T W E R C M	C I W N C I T # 4		C T W E R C M	C W C X F E R (2)	MEAL	PEAVO ENT	X T F A E G R	P G S C X F E R		F W A E R L E L	HATCH CLOSE		PRE SLEEP			
	MS2 PAYETTE	POST SLEEP	SSRMS OBSS GRPL	SSRMS OBSS UNBRTH	SSRMS OBSS MNVR H/O	SSRMS OBSS RLS	M U N N V D R K		EXERCISE	H 2 O &	P D T E V A O C 5 T	MEAL	PEAVO ENT	P W R F I L L # 6	P X W F E R	P S T E V T O U 4 P	F W A E R L E L	HATCH CLOSE		M U S *	PRE SLEEP		
	MS3 MARSHBURN	POST SLEEP	M X U D F R D A T #	EXERCISE		XFER OPS		EVA PRP XFR TO STS		EVA XFER TO STS	M T X - T	MEAL	PEAVO ENT	X T F A E G R	B R I E F		F W A E R L E L	HATCH CLOSE	P / T V 0 3 U N D O C K #	M D D K #	C / L C A M I N S T L	M U S	PRE SLEEP
	MS4 WOLF	POST SLEEP	XFER OPS				EVA PRP XFR TO STS		EVA XFER TO STS			MEAL	PEAVO ENT		EXERCISE		F W A E R L E L	HATCH CLOSE		C / L C A M I N S T L		PRE SLEEP	

DAY/NIGHT		198	199	200	201	202	203	204	205	206
ORBIT		█	█	█	█	█	█	█	█	█



ORB ATT BIAS -XLV -ZVV

SSRMS POS -NODE2 PDGF @ WS4

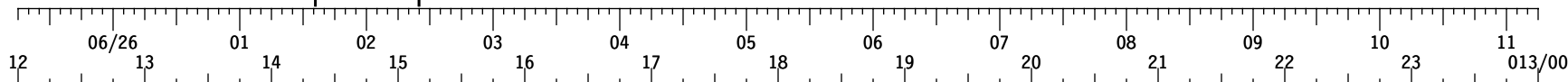
NOTES	*FILTER CK @RLS #STATUS CHECK	^PREP-RNDZ C/O	&NOM CONFIG	*RPRS INIT	*RPRS TERM	*RCNFG #STATUS CHECK
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NO EXERCISE
[DUAL ARM OPS]

FD14

GMT 06/25/09 (176)

MET Day 012



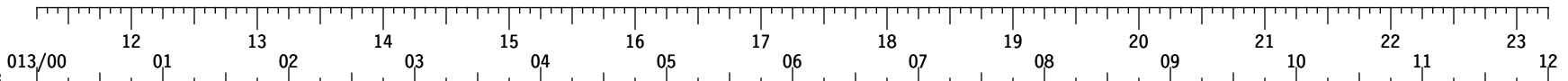
ISS	TDRS	AVAIL																									
DN	FE-2 WAKATA	H/O	FFQ	EXERCISE TVIS	TVIS		EXERCISE CEVIS		PREP HDSU	MIDDAY-MEAL	PEAVO ENT		02 TEARDOWN	FWA REL	HATCH CLOSE		PRE SLEEP										
EXP 19	ISS CDR PADALKA	TVIS								PREP	MIDDAY-MEAL	PEAVO ENT		COX MNT	IMS	FWA REL	HATCH CLOSE	VELO	PW	DPC	PRE SLEEP						
UP	FE-1 BARRATT	CEVIS	SSRMS GRPL	EXERCISE ARED	DCB RVW	BLO OD	BLD OPR	FFQ	DCB XFR	MIDDAY-MEAL	PEAVO ENT		CBL	FWA REL	HATCH CLOSE	PW	EX DPC	PRE SLEEP									
EXP 20	FE-2 EXP19 KOPRA	H/O	SSRMS GRPL	SSRMS UNBRTH	SSRMS OBSS MNVH/O	DCB RVW	SSRMS OBSS RLS	MUN NDRK	BLO OD	DCB PACK	PREP	MIDDAY-MEAL	PEAVO ENT	FFQ	02 TEARDOWN	FWA REL	HATCH CLOSE	EXERCISE CEVIS	PW	DPC	PRE SLEEP						
EXP 20	FE-3 ROMANENKO	VELO							PREP	MIDDAY-MEAL	PEAVO ENT		FWA REL	HATCH CLOSE	PW	DPC	PRE SLEEP										
EXP 20	FE-4 THIRSK	ARED	STOW ^	S/ U*	BLD OPR	BLD OPR	BLO OD	BLD OPR	STOW @	EXERCISE CEVIS	PREP	MIDDAY-MEAL	PEAVO ENT	FFQ	FWA REL	HATCH CLOSE	A RV E A D C	PW	DPC	PRE SLEEP							
EXP 20	FE-5 DE WINNE	PCS	TVIS	BLO OD	CSA O2 CAL	EXERCISE ARED	FFQ	PREP	MIDDAY-MEAL	PEAVO ENT		EXERCISE CEVIS	FWA REL	HATCH CLOSE	PW	DPC	PRE SLEEP										
DAY/NIGHT																											
ORBIT		198	199	200	201	202	203	204	205	206																	
SSRMS POS																											
NOTES		^SALIVA *BLOOD @BLOOD ^DISCNT																									

FD14

GMT 06/26/09 (177)

FD15

MET Day 013

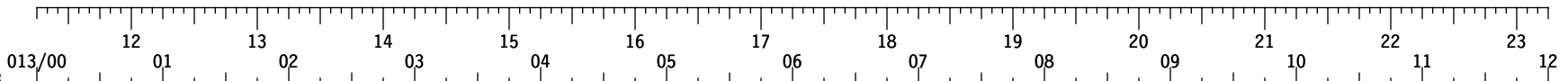


S T S - 1 2 7	CDR POLANSKY	PRE SLP	SLEEP	POST SLEEP	O G P H P R W C P R U B P O U *
	PLT HURLEY	PRE SLEEP	SLEEP	POST SLEEP	
	MS1 CASSIDY	PRE SLEEP	SLEEP	PST SLP	
	MS2 PAYETTE	PRE SLEEP	SLEEP	POST SLEEP	
	MS3 MARSHBURN	PRE SLEEP	SLEEP	PST SLP	
	MS4 WOLF	PRE SLEEP	SLEEP	POST SLEEP	
	MS5 WAKATA	PRE SLEEP	SLEEP	POST SLEEP	
DAY/NIGHT					
ORBIT					
TDRS W E Z					
ORB ATT					
NOTES		<p style="text-align: center;">BIAS -XLV -ZVV</p> <p style="text-align: right;">*OFF</p>			

FD14

GMT 06/26/09 (177)

MET Day 013

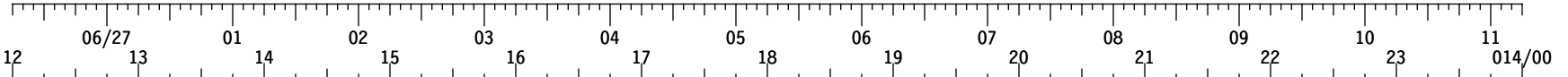


ISS	TDRS	AVAIL														
EXP 19	ISS CDR PADALKA	PRE SLEEP	SLEEP									POST SLEEP	PW	DPC	VELO	
	FE-1 BARRATT	PRE SLEEP	SLEEP									POST SLEEP	PW	DPC	B S P T S O M W U	DUCT RMV
UP	FE-2 EXP19 KOPRA	PRE SLEEP	SLEEP									POST SLEEP	PW	DPC		
EXP 20	FE-3 ROMANENKO	PRE SLEEP	SLEEP									POST SLEEP	PW	DPC	EXERCISE TVIS	
	FE-4 THIRSK	PRE SLEEP	SLEEP									POST SLEEP	PW	DPC	CEVIS	
	FE-5 DE WINNE	PRE SLEEP	SLEEP									POST SLEEP	PW	DPC	W D P C O A	EXERCISE ARED
DAY/NIGHT																
ORBIT			206	207	208	209	210	211	212	213	214					
SSRMS POS																
NOTES																

FD15

GMT 06/26/09 (177)

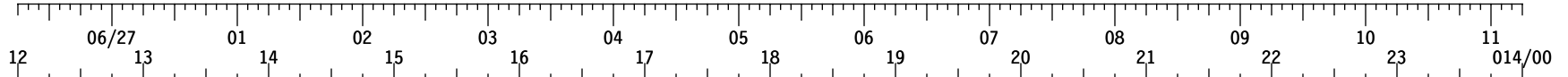
MET Day 013



STS-127	CDR POLANSKY	MNVR UNDOCK	UNDOCK	OPS	FLYAROUND	SEP	SEP1	SEP2	GPWRBN	MNZLV	COMMI	MEAL	MVRS	STBD WING SURVEY	MVRN	NOSE CAP SURVEY	IMUP	PORT WING SURVEY	MNZLV	MUS	PRE SLEEP
	PLT HURLEY	UNDOCK	OPS	FLYAROUND	SEP	GPWRBN	OHITUR#B	SIMO INIT	MEAL	SIMOTERM	RMS MNVR FLAT FIELD	STBD WING SURVEY	NOSE CAP SURVEY	PORT WING SURVEY	OBSS BERTH	MUS	PRE SLEEP				
	MS1 CASSIDY	UNDOCK	OPS	FLYAROUND	SEP	POST UNDK PGSC CNFG	WFLS	MEAL	EXERCISE	PRE SLEEP	OCAS*	PRE SLEEP									
	MS2 PAYETTE	UNDOCK	OPS	FLYAROUND	SEP	SSSEMO	SDSEACT	CABT	COND	MCIU*	MEAL	RMS MNVR FLAT FIELD	STBD WING SURVEY	NOSE CAP SURVEY	PORT WING SURVEY	OBSS BERTH	MUS	PRE SLEEP			
	MS3 MARSHBURN	UNDOCK	OPS	FLYAROUND	SEP	P/TV03 UNDOCK*	PDTEVAOC3T	POLYSBK	MEAL	EMU INSTL	EVA UNPACK & STOW	PST ISS EVA ENT PREP	EXERCISE	MDMKS#	PRE SLEEP	LDRI DOWNLINK	PRE SLEEP				
	MS4 WOLF	UNDOCK	OPS	FLYAROUND	SEP	MEAL	EMU INSTL	EVA UNPACK & STOW	PST ISS EVA ENT PREP	FILTER CLEAN	EXERCISE	PRE SLEEP									
	MS5 WAKATA	UNDOCK	OPS	FLYAROUND	SEP	MEAL	EXERCISE	PRE SLEEP													
DAY/NIGHT	[Timeline bar showing day/night cycles]																				
ORBIT	[Timeline bar with numbers 214-221]																				
TDRS	[Timeline bar with W, E, Z markers]																				
ORB ATT	[Timeline bar with activity labels: UNDOCK/FLYAROUND/SEP, DUMP, STBD SURVEY, NOSE, PORT SURVEY, -ZLV -XVV]																				
NOTES	#STATUS CHECK *13/13:13 #DEACT *FILTER CK ^PST UNDK RCNFG #STATUS CHECK *RATE RCNFG																				

FD15

GMT 06/26/09 (177)



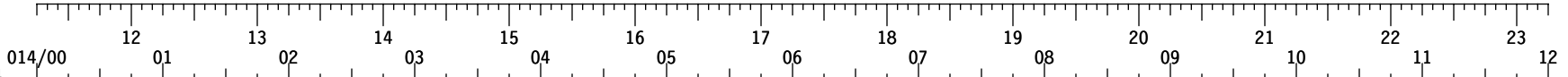
MET Day 013

ISS	TDRS	AVAIL																										
EXP 19	ISS CDR PADALKA	VELO	PMA2 DPRT CNFG													MIDDAY-MEAL	PMC				COX MNT	IMS	EXERCISE TVIS	PRE SLEEP				
	FE-1 BARRATT	*	UNDK NDEO													MIDDAY-MEAL	DEACT	PMC				PPC	EXERCISE TVIS	EXERCISE ARED	EXDIL	PRE SLEEP		
UP	FE-2 EXP19 KOPRA		PMA2 DPRT CNFG	DOCK	PMA2 DEPRESS						PMA2 LK CK INIT	TERM			MIDDAY-MEAL				PMC				PPC	EXERCISE CEVIS	PRE SLEEP			
EXP 20	FE-3 ROMANENKO	EXERCISE TVIS													PMC				MIDDAY-MEAL							VELO	PRE SLEEP	
	FE-4 THIRSK	CEVIS																MIDDAY-MEAL							EXERCISE ARED	PPC	PMC	PRE SLEEP
	FE-5 DE WINNE	EXERCISE ARED																MIDDAY-MEAL							EXERCISE CEVIS	PMC	PRE SLEEP	
DAY/NIGHT ORBIT																												
SSRMS POS			*DUCT RMV																									
NOTES			*13/13:13																									

FD15

GMT 06/27/09 (178)

MET Day 014



STS-127	CDR POLANSKY	PMC A/G	PRE SLEEP	SLEEP	POST SLEEP	SEP3^	OMS BURN	ZLV	
	PLT HURLEY		PRE SLEEP	SLEEP	POST SLEEP	W/B*	OMS BURN	POST SLEEP	
	MS1 CASSIDY		PRE SLEEP	SLEEP	POST SLEEP	OC A%	POST SLEEP	DRY SLEEP LOST SLEEP	
	MS2 PAYETTE		PRE SLEEP	SLEEP	POST SLEEP				
	MS3 MARSHBURN		PRE SLEEP	SLEEP	POST SLEEP			DRY SLEEP LOST SLEEP	
	MS4 WOLF		PRE SLEEP	SLEEP	POST SLEEP			DRY SLEEP LOST SLEEP	
	MS5 WAKATA		PRE SLEEP	SLEEP	POST SLEEP			EXER	
DAY/NIGHT		[Day/Night indicator bars]							
ORBIT		[Orbit indicator bars]							
TDRS		[TDRS indicator bars]							
ORB ATT		-ZLV -XVV							
NOTES		*HEATER ACT %RATE DCNFG							

FD16

GMT 06/27/09 (178)

NO EXERCISE [DRAGONSAT Deploy] NO EXERCISE [ANDE-2 Deploy]

MET Day 014

12 13 14 15 16 17 18 19 20 21 22 23 10 11 015/00

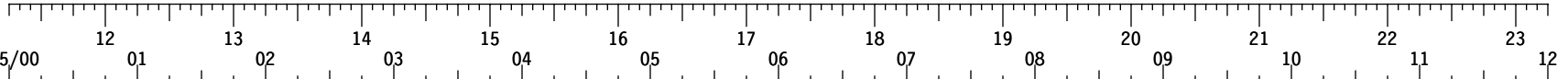
STS - 127	CDR POLANSKY	-ZLV	POST SLEEP	FCS C/O	RFICRE HOT	PEAVOENT	MNPLVRY	COMM	DRAGON D/O BRIEF	ANDE-2 CABIN STOW	ZLV	MEAL	L-1 COMM CHK	OMS BURN	SEP4	MDU MVRP	PILOT OPS	EXERCISE	L-1 COMM CHK	CNDT/I	PSLEEPE	CNDT/I	MZLV	PRE SLEEP	PMC A/G	PSLEEPE		
	PLT HURLEY	PST SLP	WCS%	FCS C/O	RFICRE HOT	PEAVOENT	CABIN STOW	DUMP EQUIP GTHR	D/O BRIEF	CABIN STOW	PLMNB%	MEAL	RPMSRDN	OMS BURN			PILOT OPS	EXERCISE						PRE SLEEP				
	MS1 CASSIDY	POST SLEEP		CABIN STOW	RFICRE HOT	PEAVOENT	CABIN STOW	DRAGON DPLY	D/O BRIEF	ANDE2 DPLY		MEAL	CABIN STOW	DRY SLOW	DRY SLOW	BD SLOW	EXERCISE	ENTRY%	WLEACT	PGSC STOW PART I	PRE SLEEP	ERG STOW		PRE SLEEP				
	MS2 PAYETTE	MCIU*		FCS C/O	RFICRE HOT	PEAVOENT	CABIN STOW	P/TV10	D/O BRIEF	CABIN STOW	P/TV10	MEAL	RPMSRDN	FRED STOW		CND-I		EXERCISE	SSEVACT	CABIN STOW	MUS	KUSTOW		PRE SLEEP				
	MS3 MARSHBURN	PSOLEP	NOI	EXERCISE	PSAOTUP	PEAVOENT	CABIN STOW	DRY SLOW	DRAGON DPLY	D/O BRIEF	ANDE2 DPLY	MEAL	CABIN STOW	DRY SLOW	DRY SLOW	BD SLOW	BD SLOW	CABIN STOW	EVNIEDT	SMEDT	PSRL	KUSTOW	ERG STOW		PRE SLEEP			
	MS4 WOLF	CABIN STOW	FCS C/O P/TV	EXERCISE	PEAVOENT	PTV10 DEPLOY S/U	DRY SLOW	P/TV10	D/O BRIEF	PR/CN VFG10	CABIN STOW	P/TV10	MEAL	CABIN STOW	BSRLEOT	DRY SLOW	DRY SLOW	DRY SLOW	DRY SLOW	DRY SLOW	DRY SLOW	DRY SLOW	DRY SLOW	DRY SLOW	DRY SLOW	DRY SLOW	DRY SLOW	DRY SLOW
	MS5 WAKATA	EXER		CABIN STOW	PEAVOENT	CABIN STOW	D/O BRIEF	CABIN STOW	MEAL	EXERCISE	PSAOTUP	JEAAXOEN	LAUNCH ENTRY SUIT CK	RCMBNT SEAT S/U											PRE SLEEP			

DAY/NIGHT	230		231		232		233		234		235		236		237	
ORBIT	W		E		Z											
TDRS	-		-		-		-		-		-		-		-	
GND					-MLA		-MLA		-WSS -DFR		-WSS -DFR		-WSS -DFR			
ORB ATT	-ZLV -XVV		DEPLOY ATTITUDE		-ZLV -XVV		SEP4		DUMP		-ZLV -XVV					
NOTES	%COMPACT *FILTER CK #STATUS CHECK		2-57		%OFF		FLT PLN/127/FIN		%COOLING CNFG		#STATUS CHECK					

FD16

GMT 06/28/09 (179)

MET Day 015

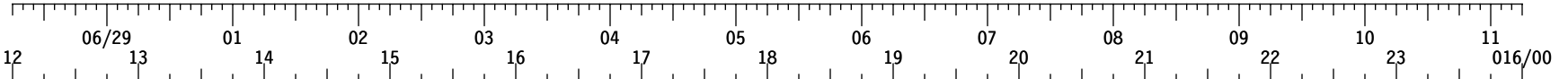


STS-127	CDR POLANSKY	PRE SLEEP	SLEEP	POST SLEEP	PMC A/G	POST SLEEP	GP RW PR UP	IAV M U I R G I N F &	
	PLT HURLEY	PRE SLEEP	SLEEP	POST SLEEP			GP RW PR UP	PST SLP	
	MS1 CASSIDY	PRE SLEEP	SLEEP	POST SLEEP				W A I T C H	
	MS2 PAYETTE	PRE SLEEP	SLEEP	POST SLEEP					
	MS3 MARSHBURN	PRE SLEEP	SLEEP	POST SLEEP				M D D K #	
	MS4 WOLF	PRE SLEEP	SLEEP	POST SLEEP					
	MS5 WAKATA	PRE SLEEP	SLEEP	POST SLEEP					
DAY/NIGHT		[Bar chart showing day/night cycle]							
ORBIT		[Bar chart showing orbit parameters]							
TDRS W E Z		[Bar chart showing TDRS contact]							
ORB ATT		-ZLV -XVV							
NOTES		*SALIVA KIT							
		^SAMPLE #STATUS CHECK							

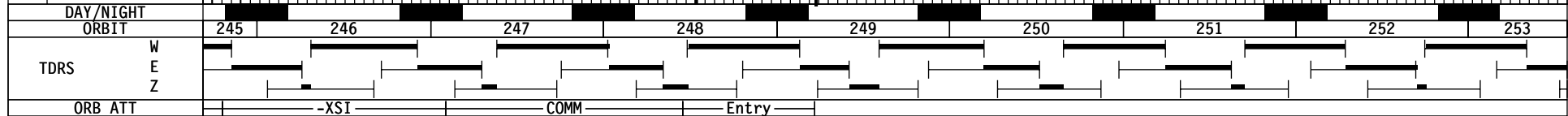
FD17

GMT 06/28/09 (179)

MET Day 015



STS - 1227	CDR POLANSKY	T-RX KSI	DEORBIT PREP	D E O R B I T #	L A N D I N G *
	PLT HURLEY	SEI PSTA SLP#	DEORBIT PREP		
	MS1 CASSIDY	PGSC STOW PART II	DEORBIT PREP		
	MS2 PAYETTE	GDI RACT	DEORBIT PREP		
	MS3 MARSHBURN	WACTA O S C W	DEORBIT PREP		
	MS4 WOLF	MT P AEW D P R S C D N	DEORBIT PREP		
	MS5 WAKATA	WACTA C H	DEORBIT PREP		



ORB ATT -XSI COMM Entry

NOTES *IMU ALIGN & VERIF #PWR ON *ENABLE **#15/16:33 *15/17:23**

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DETAILED TIMELINE

DETAILED
TIMELINE

STS-127 FD (01)

GMT	TDRSEZ	MET	STS ATT	CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
Date 06/13 (164)	W E Z	Day 000	ASCENT				
	DORB		OMS2				
12:00							
13:00				POST INSERTION	POST INSERTION	POST INSERTION	
14:00				A15 APCU 1 OUTPUT - ON APCU 1,2 CONV(two) - ON STS-127 DAP CONFIG (ORB OPS, DAP TABLES)	SEATS CDR,PLT SEAT PWR BUS SEL - OFF(ctr) ON-ORBIT INITIALIZATION (PDRS, ON-ORBIT INIT)	PGSC ACT OCA SETUP PGSC HARD DISK LATE UPDATE PGSC NETWORK SETUP COLOR PRNTR UNSTOW & ASSMBLE COLOR PRINTER WARMUP & SELF-TEST (ORB OPS, PGSC)	
15:00				ON-ORBIT OMS BURN (ORB OPS, OMS)	ON-ORBIT OMS BURN (ORB OPS, OMS)		
				< NC1 TIG (03:35) MNVR (TRK) -ZLV -XVV TG=2 BV=3 OM=0 A1/AUTO/VERN Init TRK	RMS PWRUP (PDRS, RMS PWRUP)	RMS PWRUP (PDRS, RMS PWRUP)	
04:00				PRIORITY PWRDN GRP B (ORB PKT, PRIOR PWRDN) Omit Steps 3&7 (Single G2) In Step 12, IMU3 - STBY	RMS CHECKOUT (PDRS, RMS CHECKOUT)-	RMS CHECKOUT (PDRS, RMS CHECKOUT)-	

FD01 EZ ACTIVITIES:
PCS 1(2) CONFIG (ORB OPS, ECLS)
 Config to PCS 1 with 14.7 CAB REG INLET SYS 1,2 vlv - CL
LAMP TEST (ORB OPS, EPS)
SMOKE DETN CKT TEST (ORB OPS, ECLS)
CSA-CP BATTERY CANGEOUT (ORB OPS, CSA-CP)
CSA-CP CHECKOUT AND ZERO CALIBRATION OPS (ORB OPS, CSA-CP)
DATE/TIME SET (P/TV, D2Xs)
VTR CLOCK SET (P/TV, DIV) if not performed for PLBD rec

UPLINK
β21 + Mask

STS-127 FD (01)

GMT	TDRSEZ	MET	S T S	MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	MS5 KOPRA	NOTES
Date 06/13 (164)	W E Z	Day 000	A T T					
	D O R B	00:00	A S C E N T					
			O M S 2					
12:00								
				POST INSERTION	POST INSERTION	POST INSERTION	POST INSERTION	
13:00			Z L V					
			X V V					
14:00				<u>PGSC ACT</u> <u>OCA SETUP</u> <u>PGSC HARD DISK LATE UPDATE</u> <u>PGSC NETWORK SETUP</u> <u>COLOR PRNTR UNSTOW & ASSMBLE</u> <u>COLOR PRINTER WARMUP & SELF-TEST</u> (ORB OPS, PGSC)	<u>P/TV01 VIDEO SETUP</u> (PHOTO/TV, SCENES) SETUP	<u>QCAC SETUP</u> (ORB OPS, CREW SYS)		
						<u>GIRA INSTALLATION</u> (ORB OPS, ECLS)		
15:00			N C 1					
						<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>DON ACTIWATCH (ORB OPS, SDBI)</u> <u>TISSUE EQUIVALENT PROPORTIONAL COUNTER (TEPC)</u> (ORB OPS, CREW SYSTEMS) Power ON	
04:00							<u>SHUTTLE EMERGENCY EYEWASH (SEE)</u> Unstow, attach on or near galley Fill one drink container and label it "FOR EYE RINSE ONLY"	

STS-127 FD (01)

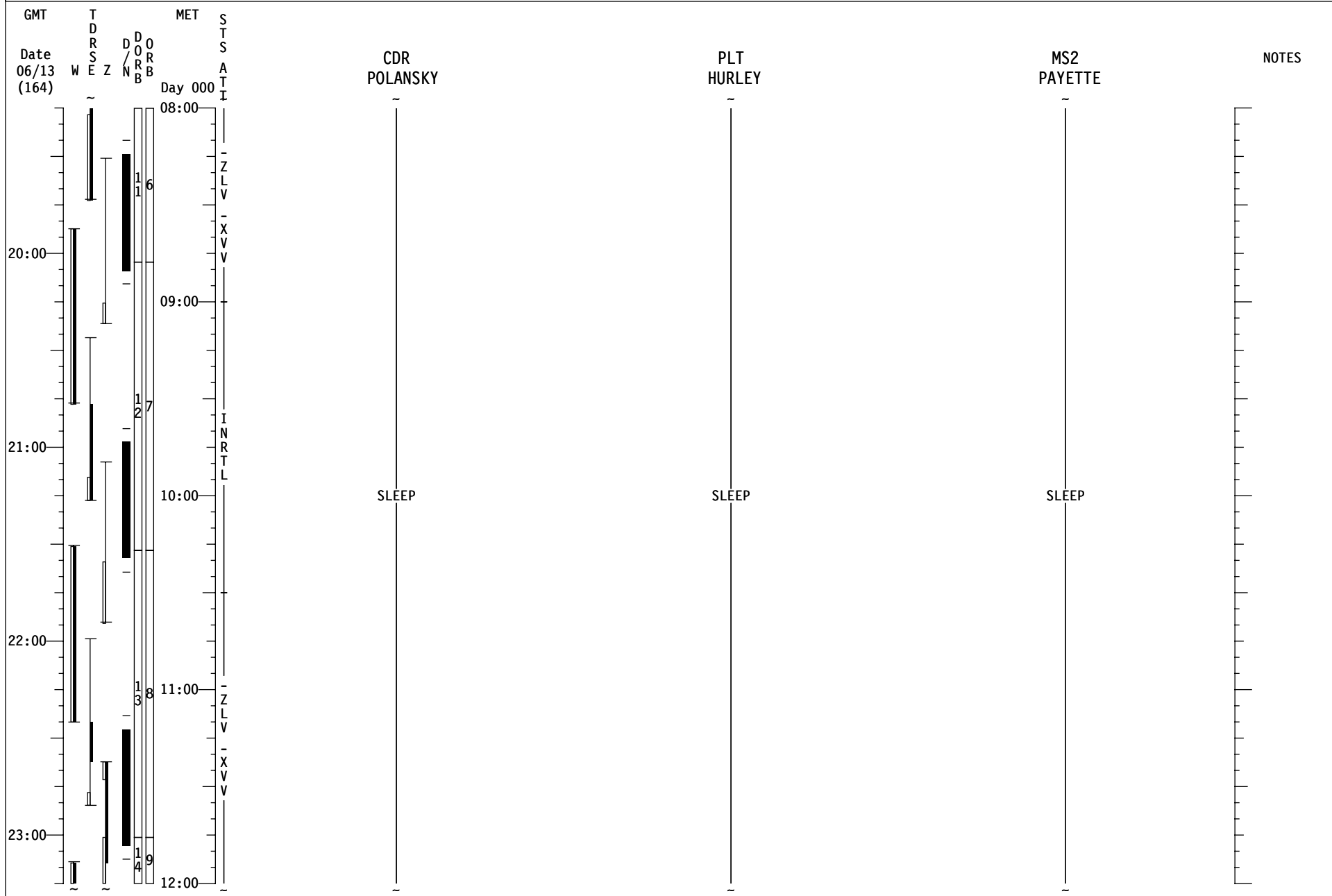
GMT	T D R S E Z	D O R B	MET	S T S	CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
Date 06/13 (164)	W	N	Day 000	A T I				
04:00		83			PRIORITY PWRDN GRP B (ORB PKT, PRIOR PWRDN) Omit Steps 3&7 (Single G2) In Step 12, IMU3 - STBY IMU STAR OF OPPTY ALIGN (ORB OPS, GNC) AFT CONTROLLER C/O (ORB OPS, GNC) ELEVON PARK, GNC 201 (ORB OPS, GNC) APU FDI RECONFIG A LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS) PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	RMS CHECKOUT (PDRS, RMS CHECKOUT)	RMS CHECKOUT (PDRS, RMS CHECKOUT)	
16:00		94			PRIVATE MEDICAL CONFERENCE Perform via A/G 2 PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	RMS PWRDN (PDRS, RMS PWRDN) Step 1 LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS) PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	RMS PWRDN (PDRS, RMS PWRDN) Step 1 LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS) PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
17:00		105			PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
18:00		116						
19:00								
08:00					SLEEP	SLEEP	SLEEP	

A R2 BLR PWR(three) - OFF
 A12 APU HTR GG/FU PMP(three) - A AUTO

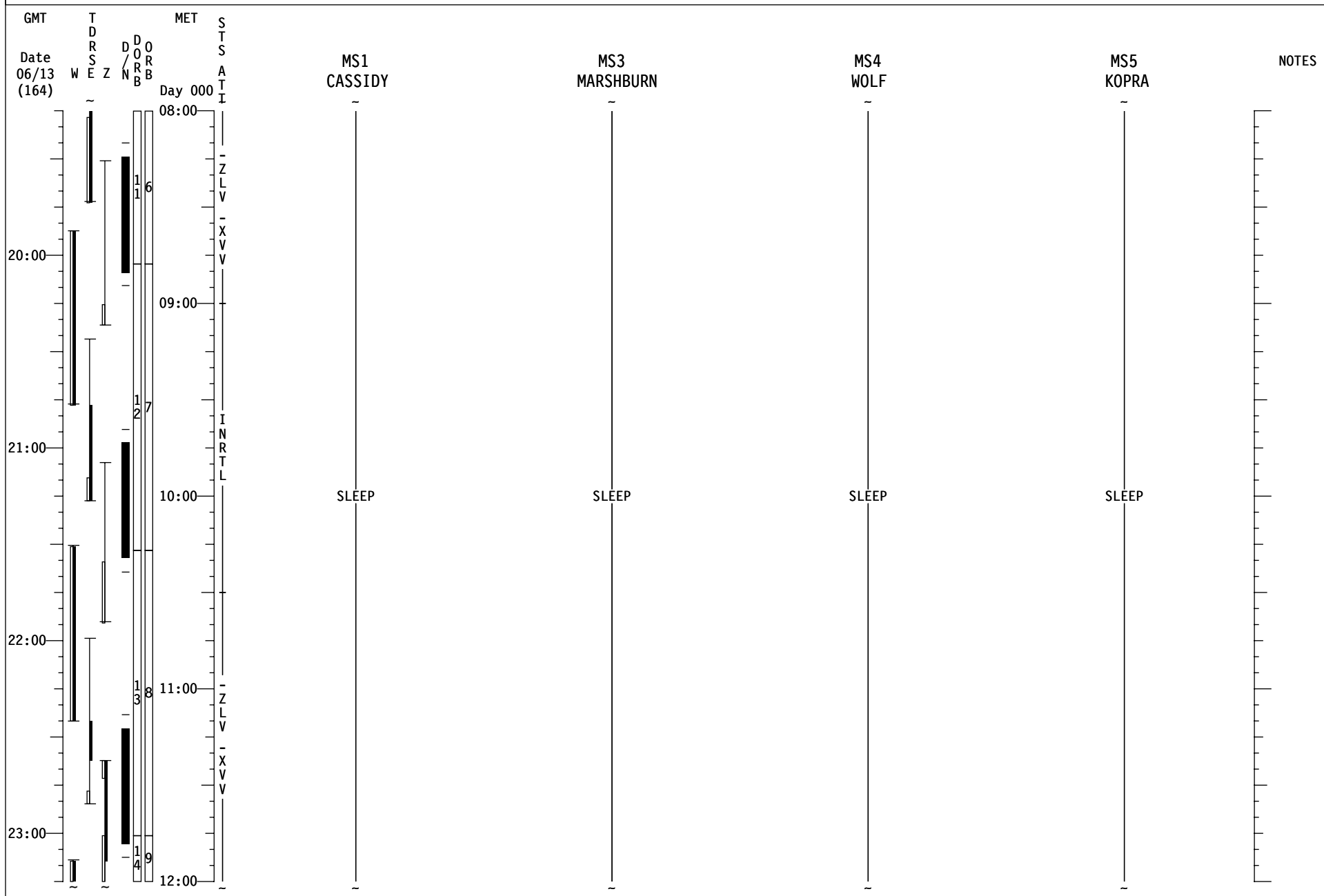
STS-127 FD (01)

GMT	T D R S W E Z	D O R B N O R B	MET Day 000	S T S A T I	MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	MS5 KOPRA	NOTES
04:00		8 3			<u>PGSC ACT</u> <u>OCA SETUP</u> <u>PGSC HARD DISK LATE UPDATE</u> <u>PGSC NETWORK SETUP</u> <u>COLOR PRNTR UNSTOW & ASSMBLE</u> <u>COLOR PRINTER WARMUP & SELF-TEST</u> (ORB OPS, PGSC) <u>WLES ACTIVATION & CHECKOUT</u> (ORB OPS, WLE SENSORS)	<u>P/TV01 VIDEO SETUP</u> (PHOTO/TV, SCENES) SETUP	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>SHUTTLE EMERGENCY EYEWASH (SEE)</u> Unstow, attach on or near galley Fill one drink container and label it "FOR EYE RINSE ONLY" <u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	
16:00		9 4			<u>DON ACTIWATCH (ORB OPS, SDBI)</u> <u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>DON ACTIWATCH (ORB OPS, SDBI)</u> <u>LOW BACK PAIN QUEST (ASSY OPS, P/L)</u> <u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>SETUP FOR SLVA SMPL CLCT</u> (ORB OPS, SDBI) <u>IMAGE FILE XFER (PHOTO/TV, D2Xs)</u> ET HANDHELD PHOTO <u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>INSTALL BLEED ORIFICE [B]</u> <u>UMBILICAL WELL TPS CAMERA</u> <u>IMAGERY DOWNLOADING</u> (ORB OPS, PGSC)	
17:00							<u>PLAYBACK (DIGITAL)</u> (PHOTO/TV, CUE CARD) ET HANDHELD VIDEO DOWNLINK KU TDRE: 04:57-05:23 <u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	
							[B] M069M Insert Bleed Orifice Assembly into LEH 02 8 QD LEH 02 8 v1v - OP		
06:00									
18:00		10 5			SLEEP	SLEEP	SLEEP	SLEEP	
19:00		11 6							
08:00									

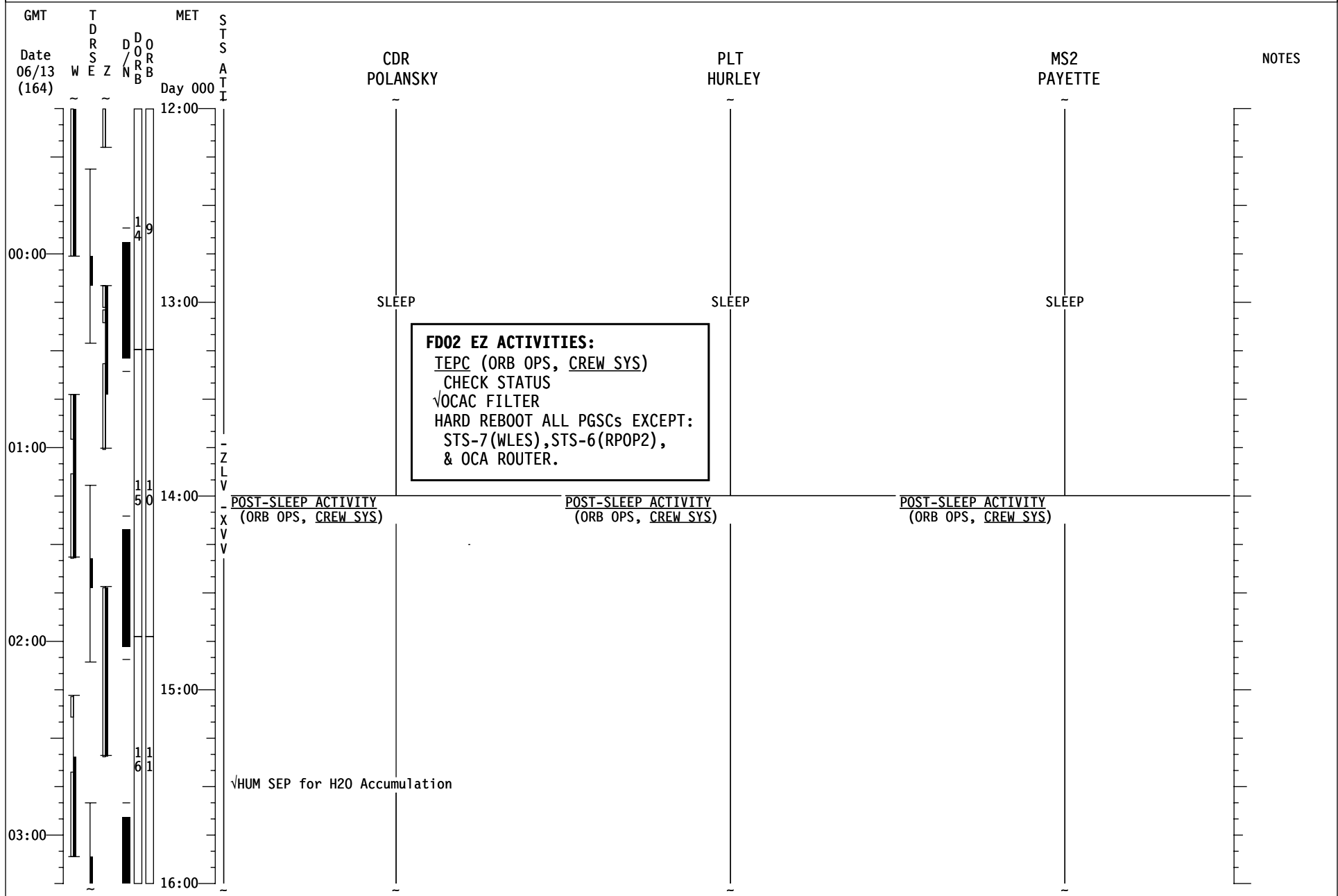
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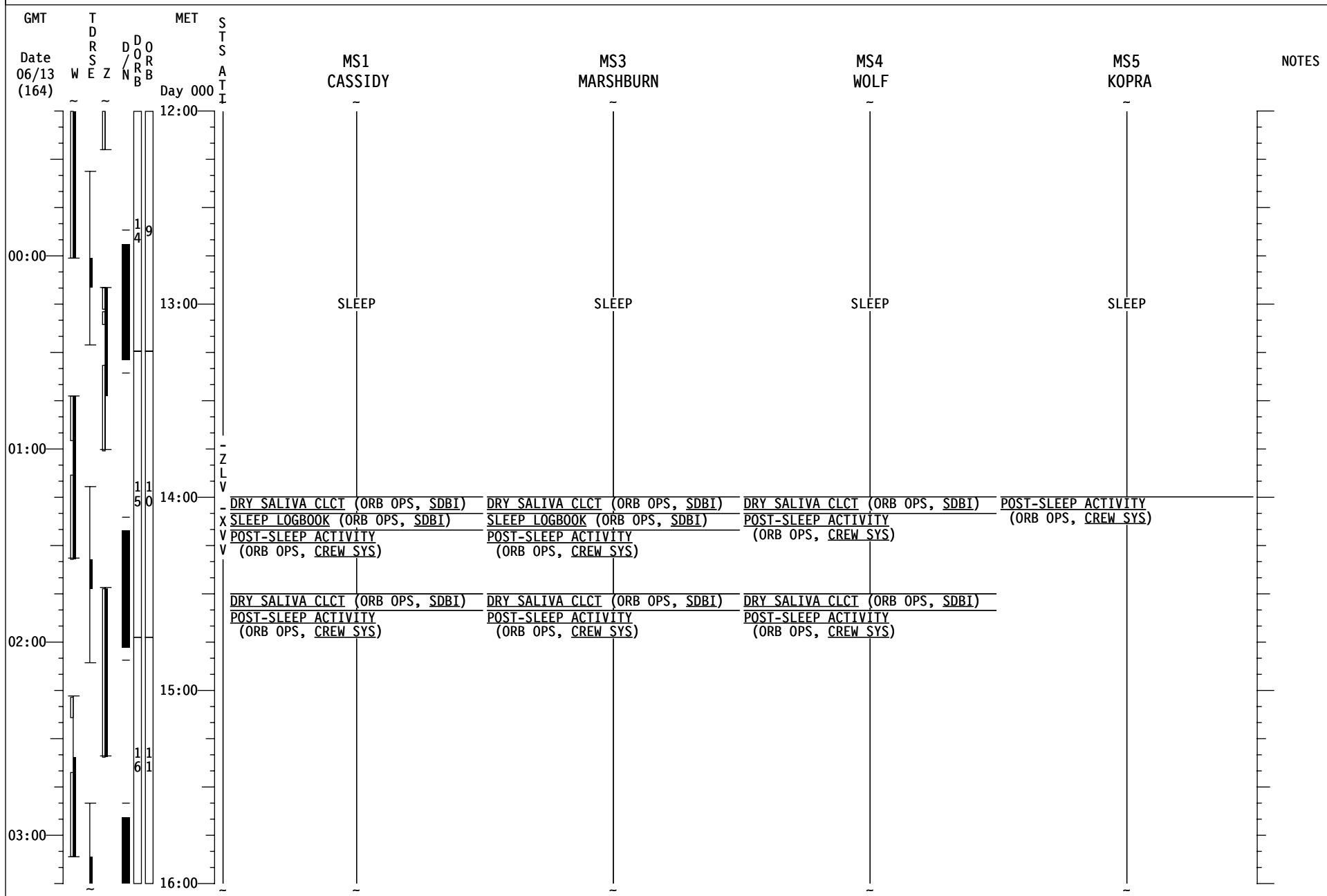
STS-127 FD (01)



STS-127 FD (02)



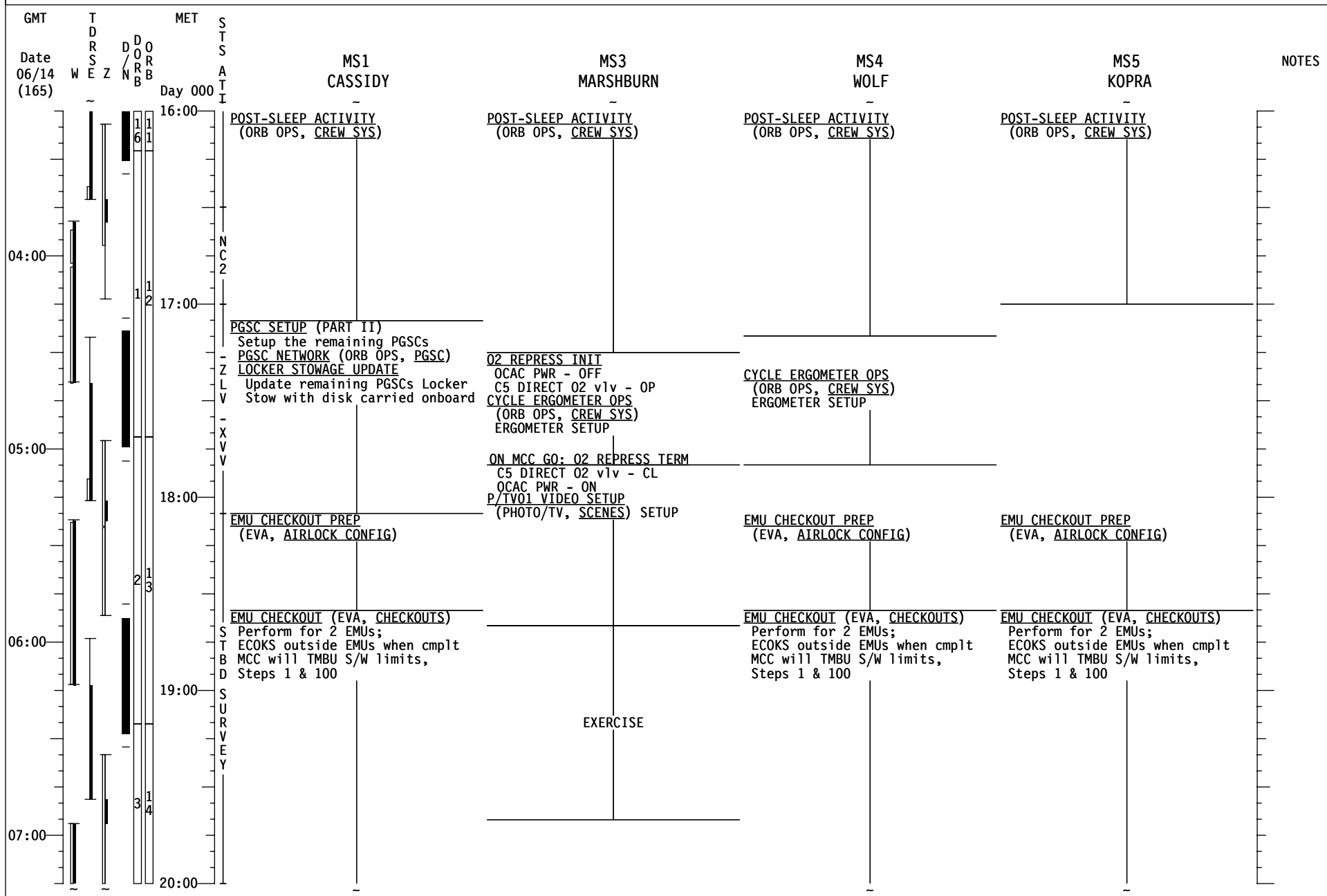
STS-127 FD (02)



STS-127 FD (02)

GMT	T D R S E Z	MET	S T S	CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
Date 06/14 (165)	W E Z	Day 000	1 6 1				
			1 1				
			1 2				
			1 3				
			1 4				
16:00				POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
					L17 Check MCIU filter screen		
				ON-ORBIT OMS BURN (ORB OPS, OMS)	ON-ORBIT OMS BURN (ORB OPS, OMS)	FRED SETUP (ORB OPS, FRED)	
04:00				<NC2 TIG (16:56)			
				MNVR (TRK) -ZLV -XVV TG=2 BV=3 OM=0 A1/AUTO/VERN Init TRK	OBSS UNBERTH [A] (PDRS, OBSS OPERATIONS)	OBSS UNBERTH [A] (PDRS, OBSS OPERATIONS)	
				RCS/OMS HEATER RECONFIG [B] IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)	[A] APCU POWER DISABLE Prior to Step 3: A15 APCU 1,2 CONV(two) - OFF		
				[B] A14 RCS/OMS HTR L POD A - OFF B - AUTO R POD A - OFF B - AUTO			
05:00							
				MNVR (TRK) BIAS +YSI (Stbd Survey) TG=4 BV=5 P=0 Y=40 OM=160 A14/AUTO/VERN, OBSS UNBERTH cpl't, Init TRK	OBSS LDRI/IDC RCC SURVEY - STBD (PDRS, OBSS OPERATIONS)	OBSS LDRI/IDC RCC SURVEY - STBD (PDRS, OBSS OPERATIONS)	
				OBSS LDRI/IDC RCC SURVEY - STBD (PDRS, OBSS OPERATIONS)			
06:00							
07:00							
20:00							

STS-127 FD (02)



STS-127 FD (02)

GMT	TDRSEZ	MET	STS ATT	CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
Date 06/14 (165)	W E Z	Day 000					
20:00			NOSE SURVEY	MNVR (TRK) BIAS +XSI (Nose Cap) TG=4 BV=5 P=330 Y=0 OM=260 A14/AUTO/VERN, RCC SURVEY-STBD cplmt, Init TRK OBSS LDRI/IDC RCC SURVEY - NOSE CAP (PDRS, OBSS OPERATIONS)	OBSS LDRI/IDC RCC SURVEY - NOSE CAP (PDRS, OBSS OPERATIONS)	OBSS LDRI/IDC RCC SURVEY - NOSE CAP (PDRS, OBSS OPERATIONS)	
08:00							
09:00				MEAL	MEAL	MEAL	
22:00			PORT SURVEY	MNVR TRK BIAS -YSI (Port Survey) TG=4 BV=5 P=0 Y=323 OM=270 A14/AUTO/VERN, RCC SURVEY-PORT Step 3 cplmt, Init TRK OBSS LDRI/IDC RCC SURVEY - PORT (PDRS, OBSS OPERATIONS)	OBSS LDRI/IDC RCC SURVEY - PORT (PDRS, OBSS OPERATIONS)	OBSS LDRI/IDC RCC SURVEY - PORT (PDRS, OBSS OPERATIONS)	
10:00							
11:00							
00:00							

STS-127 FD (02)

GMT Date 06/14 (165)	T D R S E Z W E Z	D O R B D O R B	MET Day 000	S T S A T T	MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	MS5 KOPRA	NOTES
			20:00		<u>EMU CHECKOUT (EVA, CHECKOUTS)</u> Perform for 2 EMUs; ECOKS outside EMUs when cmplt MCC will TMBU S/W limits, Steps 1 & 100		<u>EMU CHECKOUT (EVA, CHECKOUTS)</u> Perform for 2 EMUs; ECOKS outside EMUs when cmplt MCC will TMBU S/W limits, Steps 1 & 100	<u>EMU CHECKOUT (EVA, CHECKOUTS)</u> Perform for 2 EMUs; ECOKS outside EMUs when cmplt MCC will TMBU S/W limits, Steps 1 & 100	
					<u>DRY SALIVA CLCT (ORB OPS, SDBI)</u>	<u>DRY SALIVA CLCT (ORB OPS, SDBI)</u>	<u>DRY SALIVA CLCT (ORB OPS, SDBI)</u>	<u>DRY SALIVA CLCT (ORB OPS, SDBI)</u>	
						<u>EVA PREP FOR TRANSFER TO ISS (EVA, AIRLOCK CONFIG)</u>	<u>EVA PREP FOR TRANSFER TO ISS (EVA, AIRLOCK CONFIG)</u>	<u>EVA PREP FOR TRANSFER TO ISS (EVA, AIRLOCK CONFIG)</u>	
08:00				N O S E S U R V E Y	EXERCISE				
			21:00		<u>CRYO O2 TK HTR SNSR CK (ORB OPS, EPS)</u>				
09:00					<u>R2 BLR CNTLR/HTR (three) - B</u>				
			22:00		MEAL	MEAL	MEAL	MEAL	
10:00				P O R T S U R V E Y	<u>FILTER CLEANING (IFM, SCHEDULED MAINTENANCE)</u>	<u>MIDDECK XFER PREP Ref. MSG XXX</u>	<u>MIDDECK XFER PREP Ref. MSG XXX</u>		
			23:00						
11:00									
			00:00			<u>DRY SALIVA CLCT (ORB OPS, SDBI)</u>	<u>DRY SALIVA CLCT (ORB OPS, SDBI)</u>		

STS-127 FD (02)

GMT	T D R S E Z W E Z	D O R B D O R B N B	MET Day 001	S T S A T T	CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
06/14 (165)			00:00		<u>MNVR (TRK) -ZLV -XVV</u> TG=2 BV=3 OM=0 A14/AUTO/VERN, RCC SURVEY-PORT Step 10 cmlt, Init TRK	<u>OBSS BERTH</u> (PDRS, <u>OBSS OPERATIONS</u>) Record Camera D	<u>OBSS BERTH</u> (PDRS, <u>OBSS OPERATIONS</u>) Record Camera D	
12:00			01:00	-ZLV	<u>LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)</u>	A15 APCU 1,2 CONV(two) - ON		
13:00			02:00	-XVV	EXERCISE	<u>LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)</u> <u>PRE-SLEEP ACTIVITY</u> (ORB OPS, <u>CREW SYS</u>)	<u>LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)</u> <u>RNDZ TOOLS CHECKOUT</u> (RNDZ, <u>RNDZ TOOLS</u>)	TFL 192
14:00			03:00	NC3	<u>ON-ORBIT +X RCS BURN</u> (ORB OPS, RCS)	<u>ON-ORBIT +X RCS BURN</u> (ORB OPS, RCS)	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, <u>CREW SYS</u>)	
15:00			04:00	ZLV	< NC3 TIG (02:35) <u>MNVR (TRK) -ZLV -XVV</u> TG=2 BV=3 OM=0 A1/AUTO/VERN Init TRK <u>FUTURE LOADED MNVR (TRK) -ZLV +YVV (SIMO DUMP)</u> TG=2 BV=3 OM=270 A1/AUTO/VERN (13:35) Init TRK <u>PRE-SLEEP ACTIVITY</u> (ORB OPS, <u>CREW SYS</u>)	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, <u>CREW SYS</u>)		TFL 188

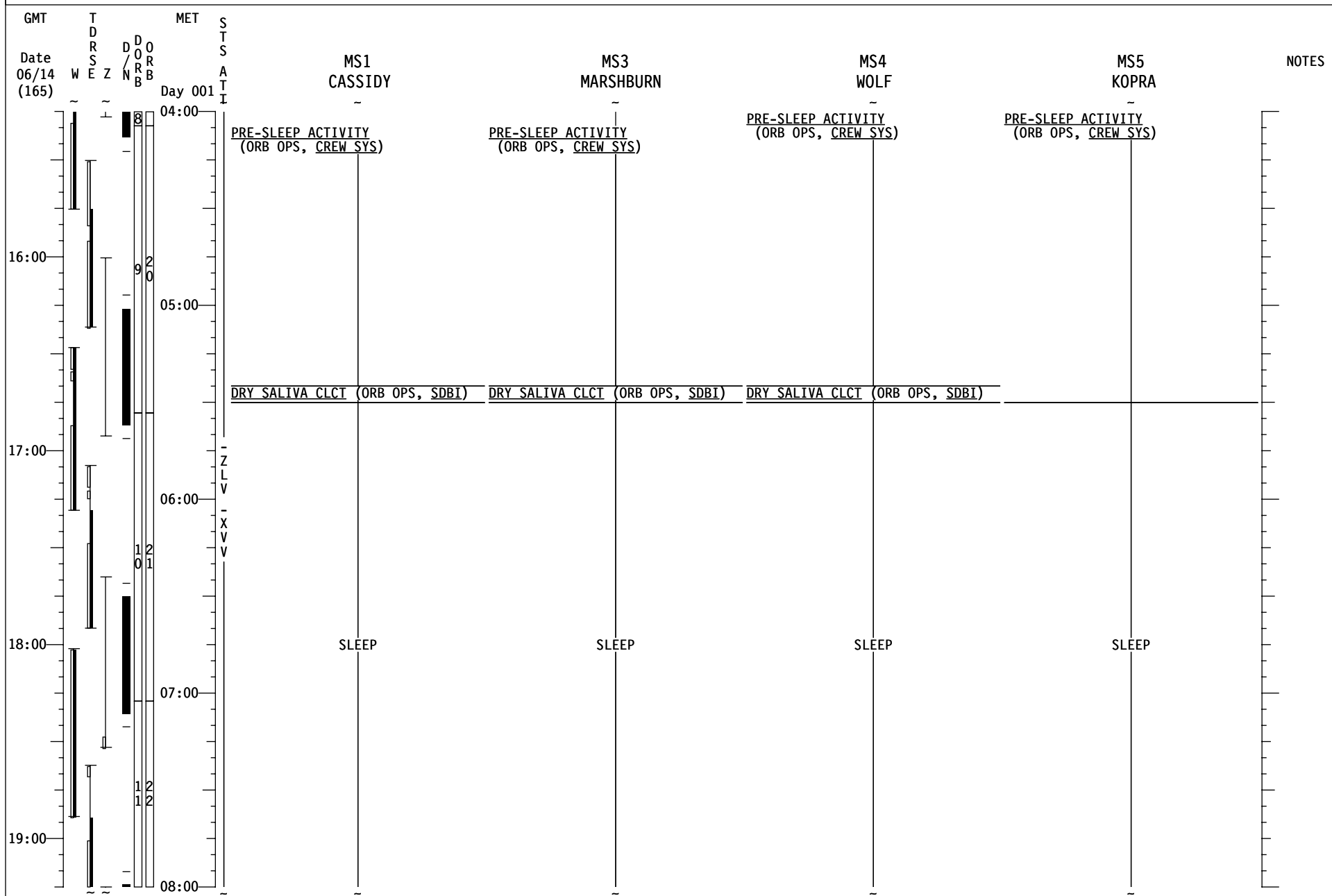
STS-127 FD (02)

GMT	T D R S E Z	D O R B	MET	S T S	MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	MS5 KOPRA	NOTES
Date 06/14 (165)	W	E	Day 001	A					
			00:00	T	<u>DRY SALIVA CLCT (ORB OPS, SDBI)</u> <u>FUEL CELL PURGE - MANUAL (ORB OPS, EPS)</u>				
							EXERCISE		
12:00			01:00	L	<u>WLES RNDZ TOOLS C/O PREP (ORB OPS, WLES)</u> <u>FCMS OPS (ORB OPS, EPS)</u>	<u>C/L CAMR INSTALL (PHOTO/TV, C/L CAMR)</u>	<u>C/L CAMR INSTALL (PHOTO/TV, C/L CAMR)</u>	<u>PLAYBACK (DIGITAL) (PHOTO/TV, CUE CARD)</u> <u>LDRI SURVEYS</u> <u>KU TDRE (01:00-01:54)</u>	
				X					
13:00			02:00	V	<u>RNDZ TOOLS CHECKOUT (RNDZ, RNDZ TOOLS)</u>	<u>DOCKING MECH INITIALIZATION</u> <u>DOCKING MECH POWERUP</u> <u>DOCKING RING EXTENSION</u> <u>DOCKING MECH POWERDOWN (RNDZ, APDS)</u>	<u>DOCKING MECH INITIALIZATION</u> <u>DOCKING MECH POWERUP</u> <u>DOCKING RING EXTENSION</u> <u>DOCKING MECH POWERDOWN (RNDZ, APDS)</u>		
							<u>P/TV08 EXTERNAL SURVEY (S/U) (P/TV, SCENES) Step 1</u> <u>P/TV08 EXTERNAL SURVEY (OPS) (P/TV, SCENES) Item 1</u>	EXERCISE	
14:00			03:00	N	<u>RECONFIG OCA DWNLK RATE (ORB OPS, PGSC) Part C, Omit step 4</u> <u>PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)</u>	<u>LOW BACK PAIN QUEST (ASSY OPS, P/L) PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)</u>	<u>PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)</u>		
				C					
15:00			04:00	3				<u>PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)</u>	

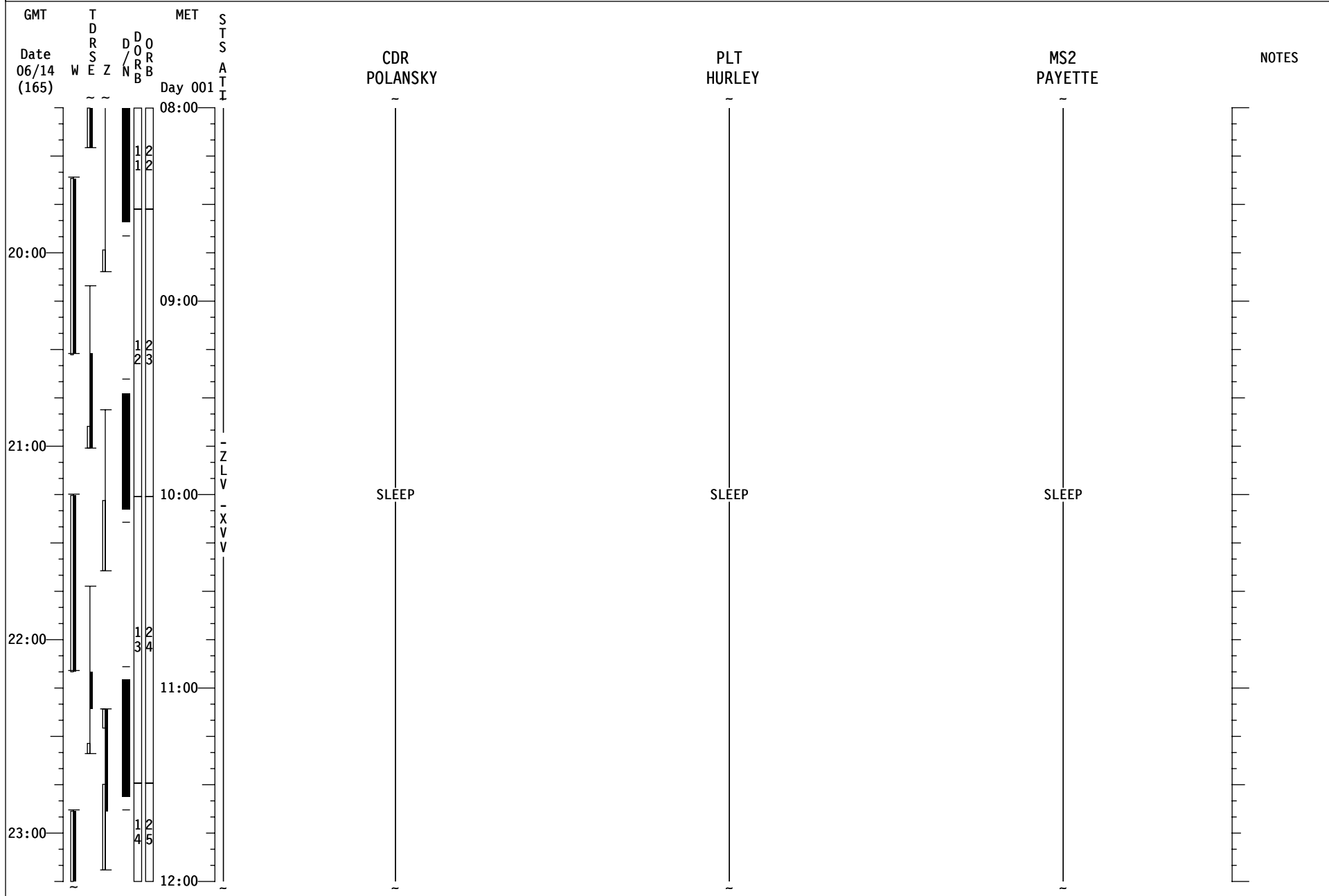
STS-127 FD (02)

GMT	TDRSEZ	MET	SATS	CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
Date 06/14 (165)	W E Z N	Day 001	08 09 10 11 12 13				
04:00				PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
				PRIVATE MEDICAL CONFERENCE Perform via A/G 2			
				PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
16:00							
17:00							
18:00				SLEEP	SLEEP	SLEEP	
19:00							
08:00							

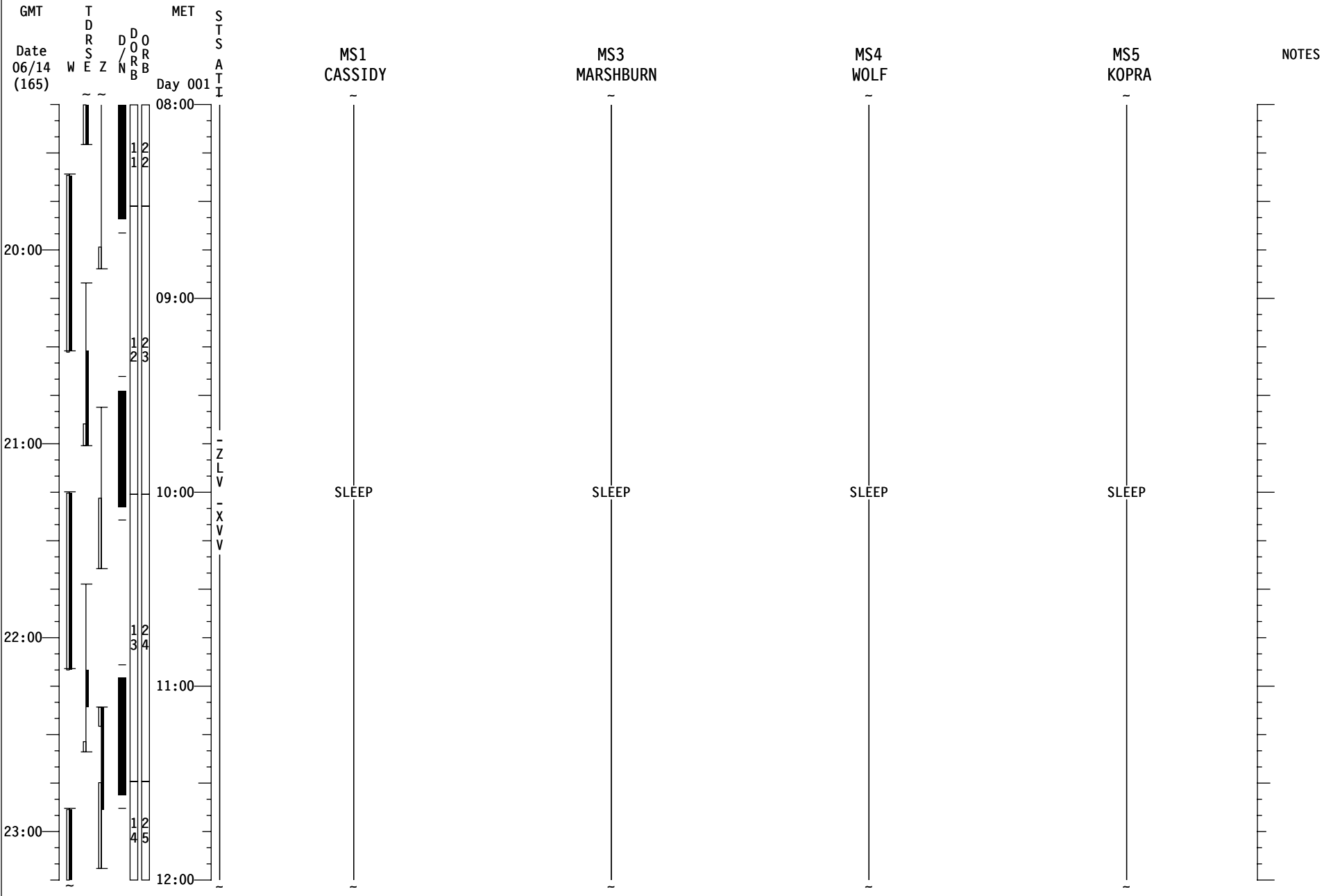
STS-127 FD (02)



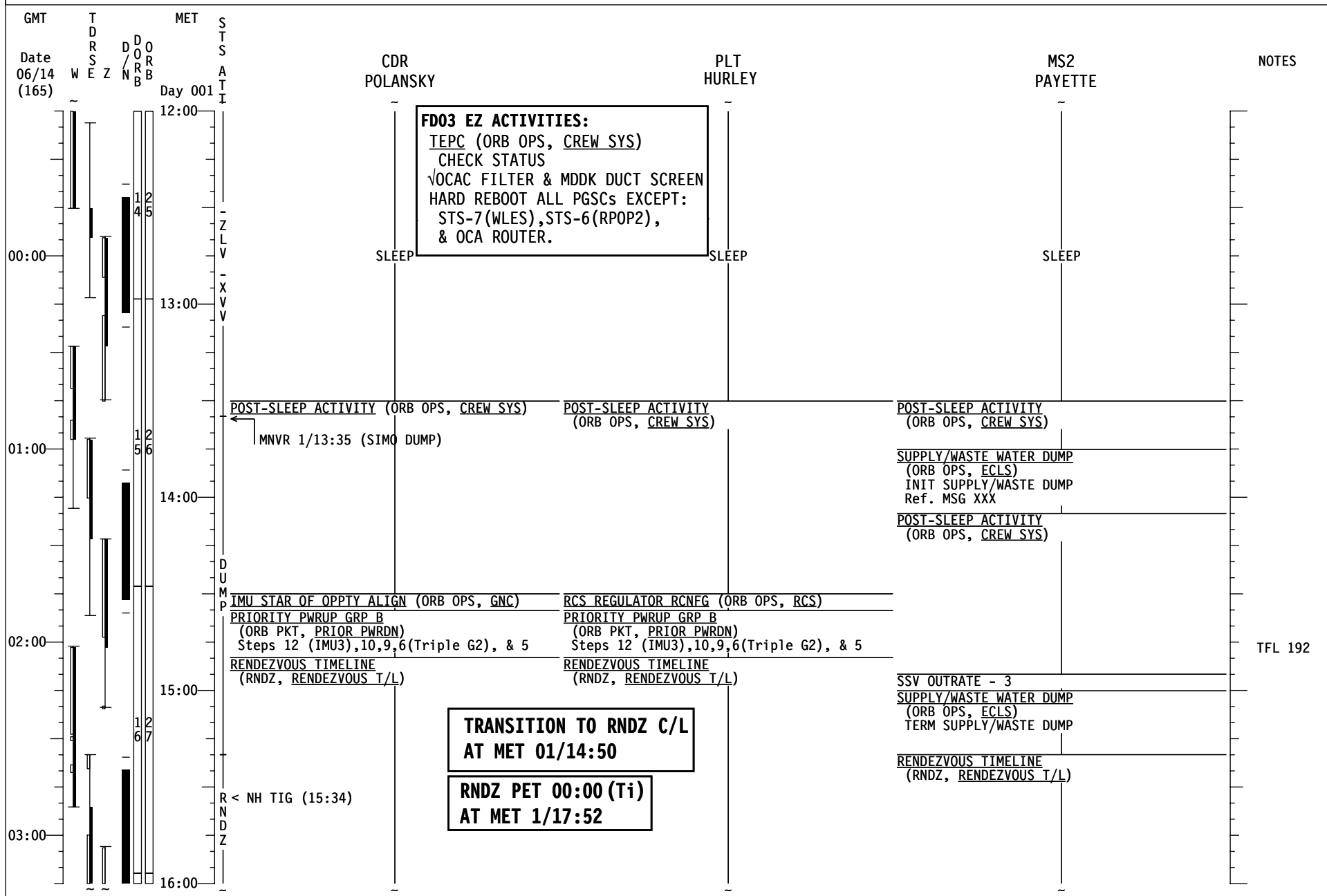
STS-127 FD (02)



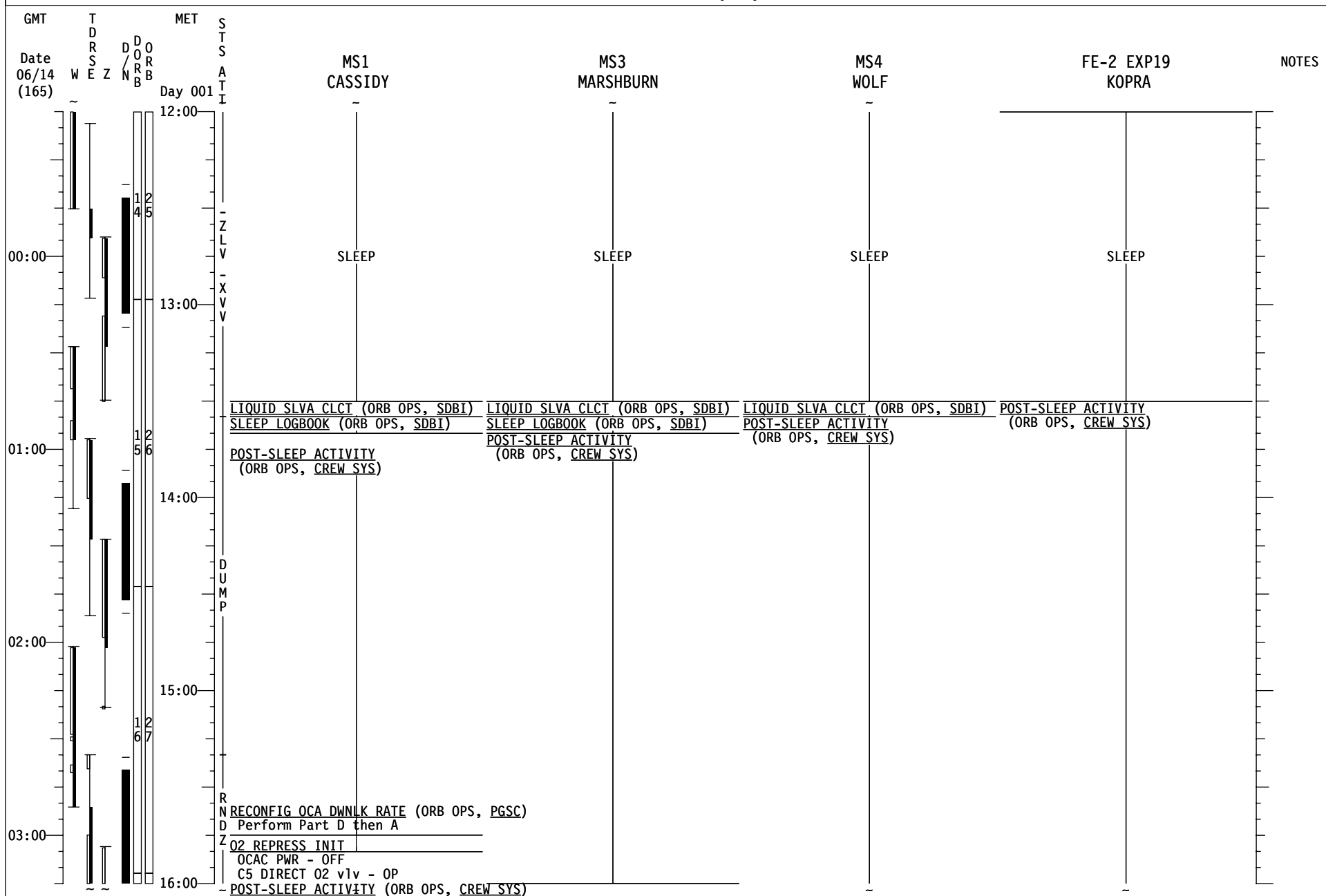
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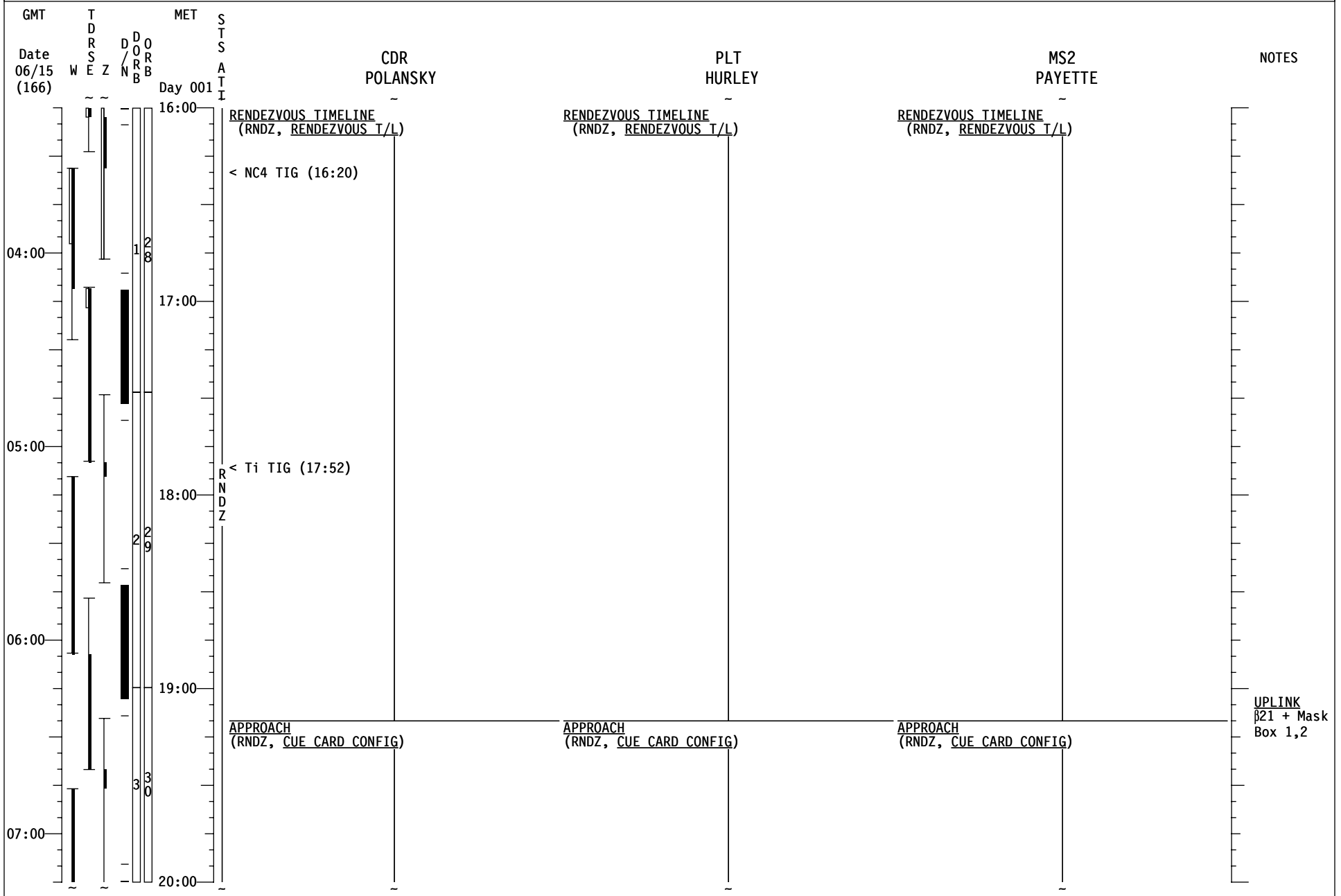
STS-127 FD (03)



STS-127 FD (03)



STS-127 FD (03)



STS-127 FD (03)

GMT	T D R S E Z	D O R B	MET	S T S	MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	FE-2 EXP19 KOPRA	NOTES
Date 06/15 (166)	W E Z	D O R B	Day 001	A T I					
			16:00		<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>DAILY TRANSFER LIST UPDATE</u> Ref. Transfer List & MSG XXX	<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	
					<u>ON MCC GO: O2 REPRESS TERM</u> C5 DIRECT O2 vlv - CL OCAC PWR - ON <u>RENDEZVOUS TIMELINE</u> (RNDZ, RENDEZVOUS T/L)	<u>GALLEY OVERNIGHT CONFIG</u> (ORB OPS, ECLS) Use DIDBs from EXT A/L Floor Bag Fill 10 DIDBs from Galley Remove GAS When filled, stow in crew specific ECOKs Dispose Fill Tool in Wet Trash	<u>EMU REMOVAL</u> Disconnect EMUs from AAPs & stow in MDDK	<u>EMU REMOVAL</u> Disconnect EMUs from AAPs & stow in MDDK	
04:00			17:00						
							EXERCISE		
05:00						√ All EVA drink bags fills complete, then: <u>GALLEY MORNING CONFIG</u> (ORB OPS, ECLS) <u>SHUTTLE CONDENSATE COLLECTION</u> (ORB OPS, ECLS) SETUP			
			18:00	R N D Z			<u>P/TV02 DOCK</u> (PHOTO/TV, SCENES) SETUP	EXERCISE	
						EXERCISE	<u>P/TV02 DOCK</u> (PHOTO/TV, SCENES) OPS		
06:00									
			19:00		<u>APPROACH</u> (RNDZ, CUE CARD CONFIG)	<u>APPROACH</u> (RNDZ, CUE CARD CONFIG)		<u>APPROACH</u> (RNDZ, CUE CARD CONFIG)	
07:00									
			20:00						

STS-127 FD (03)

GMT	TDRS WSEZ	MET Day 001	STS A T I	CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
Date 06/15 (166)							
			RNDZ	DOCKING(1/20:35)	DOCKING	DOCKING	
			DOCK	RETURN TO FLIGHT PLAN			
08:00				<p><u>APPROACH</u> (RNDZ, CUE CARD CONFIG)</p> <p><u>MNVR BIAS -XLV -ZVV</u> √DAP A12/LVLH/VERN TG=2 BV=5 P=164 Y=358 OM=187 Init TRK, DAP:FREE > 2 sec, then DAP:A12/AUTO/VERN <u>PRIORITY PWRDN GRP B (ORB PKT,PRIOR PWRDN)</u> Steps 6 (LA) & 12 (IMU3) 06 S TRK PWR -Z - OFF</p>	<p><u>APPROACH</u> (RNDZ, CUE CARD CONFIG)</p> <p><u>SSPTS ODS CONNECTOR VERIF</u> A15 ODS MATE X1,X2 (two) - ON √MCC then - OFF</p> <p><u>PRIORITY PWRDN GRP B (ORB PKT,PRIOR PWRDN)</u> Steps 6 (LA) & 12 (IMU3) 06 S TRK PWR -Z - OFF</p> <p>SSV OUTFRATE - 2</p>	<p><u>APPROACH</u> (RNDZ, CUE CARD CONFIG)</p> <p><u>POST RNDZ PGSC CONFIG</u> Configure PGSCs per Usage Chart</p>	<p><u>UPLINK</u> β21 + Mask Box 2,4</p>
09:00				<p><u>JOINT OPS: 2.104 HATCH OPENING AND STS/ISS DUCT INSTALLATION</u></p>	<p><u>A</u> Singe G2 - after mnvr cmplt Step 3: √MCC or pause ~ 3 min (DAP settling) DAP: as req'd</p>	<p><u>PLAYBACK (DIGITAL)</u> (PHOTO/TV, CUE CARD)</p>	
			BIAS		<p><u>B</u> SSPTS OPCU ACT On MCC GO: A15 OPCU 1,2 CONV(two) - ON R1 MN BUS TIE B - ON(tb-ON) C - ON(tb-ON)</p>	<p>KU TDRW (21:38-22:11)</p> <p><u>WLES DOCK/UNDOCK RECOVERY (ORB OPS, WLES)</u> L17 Check MCIU filter screen</p>	TFL 184
			XLV	WELCOME	WELCOME	WELCOME	
10:00			ZVV	SAFETY BRIEFING	SAFETY BRIEFING	SAFETY BRIEFING	
				<p><u>1.101 EFBM CURRENT MONITOR FOR JEF BERTHING</u> (ASSY OPS, ACT & C/O) Steps 1-3</p>	<p><u>JEF UNBERTH CLEAR</u> (PDRS, JEF NOMINAL)</p> <p>SSPTS OPCU ACT <u>B</u></p>	<p><u>JEF UNBERTH CLEAR</u> (PDRS, JEF NOMINAL)</p>	
				<p><u>1.101 EFBM CURRENT MONITOR FOR JEF BERTHING</u> (ASSY OPS, ACT & C/O) Steps 4.1-4.7</p>	EXERCISE	<p><u>1.102 ACTIVE EFBM OPS FOR JEF BERTHING</u> (ASSY OPS, ACT & C/O) Steps 1-5</p>	
11:00						<p><u>J-ROBO: 1.101 JEMRMS FINAL ACTIVATION</u> Steps 1-7</p>	
00:00							

STS-127 FD (03)

GMT	TDRSEZ	MET	S T S	MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	FE-2 EXP19 KOPRA	NOTES
Date 06/15 (166)	W E Z	Day 001	ST S					
	DORNB		RNDZ	APPROACH (RNDZ, CUE CARD CONFIG)	APPROACH (RNDZ, CUE CARD CONFIG)	P/TV02 DOCK (PHOTO/TV, SCENES) OPS	APPROACH (RNDZ, CUE CARD CONFIG)	
			DOC	RETURN TO FLIGHT PLAN				
08:00				POST DOCKING HATCH LEAK CHECK (RNDZ, APDS)	P/TV04 INGRESS/EGRESS (PHOTO/TV, SCENES) SETUP	POST DOCKING HATCH LEAK CHECK (RNDZ, APDS)		
				AIRLOCK PREP FOR INGRESS - AIRLOCK FAN ACTIVE (RNDZ, APDS)	P/TV04 INGRESS/EGRESS (PHOTO/TV, SCENES) OPS	AIRLOCK PREP FOR INGRESS - AIRLOCK FAN ACTIVE (RNDZ, APDS)		
09:00				JOINT OPS: 2.104 HATCH OPENING AND STS/ISS DUCT INSTALLATION		JOINT OPS: 6.109 H/L ICOM AUDIO Steps 1,5 & 6		
			BIAS					
			XLV	WELCOME	WELCOME	WELCOME	WELCOME	
10:00			ZVV	SAFETY BRIEFING	SAFETY BRIEFING	SAFETY BRIEFING	SAFETY BRIEFING	
				P/TV05 ISS INTERNAL OPS (HC) (PHOTO/TV, SCENES) SETUP	EVA TRANSFER TO ISS (EVA, AIRLOCK CONFIG) Ref: EVA SYS: 1.515 EMU METOX /LIOH/BATTERY REPLACEMENT	EVA TRANSFER TO ISS (EVA, AIRLOCK CONFIG) Ref: EVA SYS: 1.515 EMU METOX /LIOH/BATTERY REPLACEMENT	TELK REMOVAL & TRANSFER Ref. Transfer List: Item XXX	
				EVA 1 TOOL CONFIG (EVA, TIMELINES) Ref. MSG XXX	EVA 1 TOOL CONFIG (EVA, TIMELINES) Ref. MSG XXX	EVA SYS: 1.307 REBA INSTL/RMV Install in EMU B003 Ref: 127 EMU CTCC EVA SYS: 1.403 REBA POWERED HARDWARE C/O Perform on EMU 3003 & 3005	EVA SYS: 1.307 REBA INSTL/RMV Install in EMU B003 Ref: 127 EMU CTCC EVA SYS: 1.403 REBA POWERED HARDWARE C/O Perform on EMU 3003 & 3005	
11:00								
00:00								

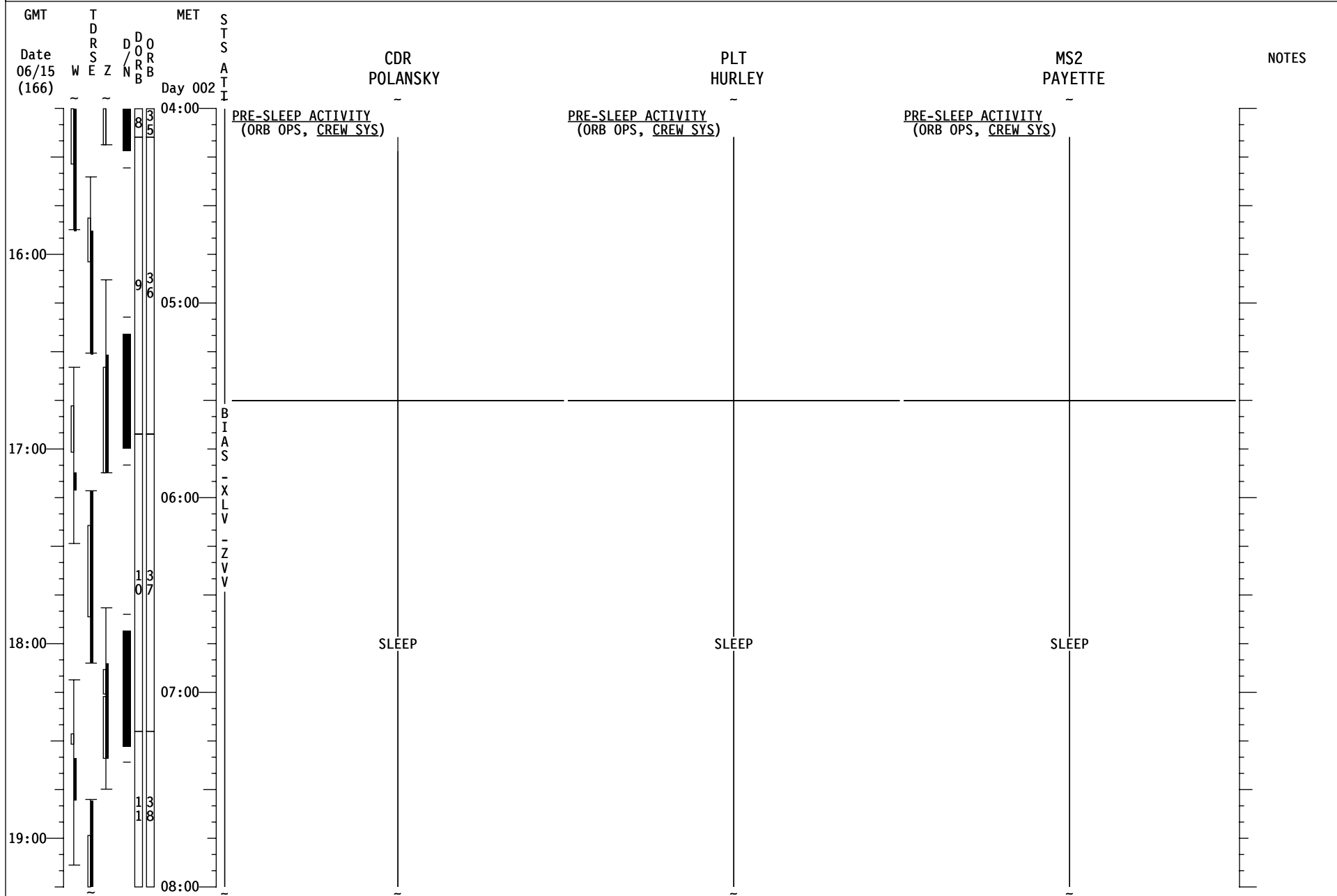
STS-127 FD (03)

GMT	T D R S E Z	D O R B	MET	S T S	CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
Date 06/15 (166)	W	E	Day 002	A T I				
00:00					<u>JOINT OPS: 3.120 PREBREATHE USING SHUTTLE O2 SETUP</u> Steps 2-6 Ground will perform Steps 2.4 & 6.14	EXERCISE	<u>J-ROBO: 1.101 JEMRMS FINAL ACTIVATION</u> Steps 1-7	
							<u>J-ROBO: 1.403 JEMRMS BUS MONITOR OPS</u> Steps 1 & 2	
						<u>J-ROBO: 1.106 JEMRMS MNVR TO JEF BERTH VIEWING</u>	<u>J-ROBO: 1.106 JEMRMS MNVR TO JEF BERTH VIEWING</u>	
12:00								
					<u>SODF TRANSFER</u> Ref. Transfer List: Item XXX & MSG XXX	<u>J-ROBO: 1.113 JEMRMS MNVR FOR EE GROUNDING TAB REMOVAL</u> Step 1, Then perform RMS CCP deact	<u>2.100 JPM TO JEF 1553 JUMPER RECONFIG</u> (ASSY OPS, ACT & C/O) Steps 1.1 & 2.1	
						<u>J-ROBO: 1.403 JEMRMS BUS MONITOR OPS</u> Steps 3-5		
					<u>EVA 1 PROCEDURE REVIEW</u> Ref: <u>127 EVA 1 BRIEFING CARD</u> (EVA, TIMELINES)	<u>EVA 1 PROCEDURE REVIEW</u> Ref: <u>127 EVA 1 BRIEFING CARD</u> (EVA, TIMELINES)	<u>EVA 1 PROCEDURE REVIEW</u> Ref: <u>127 EVA 1 BRIEFING CARD</u> (EVA, TIMELINES)	
13:00								
					<u>LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)</u> <u>PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)</u>	<u>LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)</u> <u>PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)</u>	<u>LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)</u> <u>PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)</u>	
14:00								
					<u>PRIVATE MEDICAL CONFERENCE</u> Perform via A/G 2			
					<u>PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)</u>			
15:00					√HUM SEP for H2O Accumulation			
04:00								

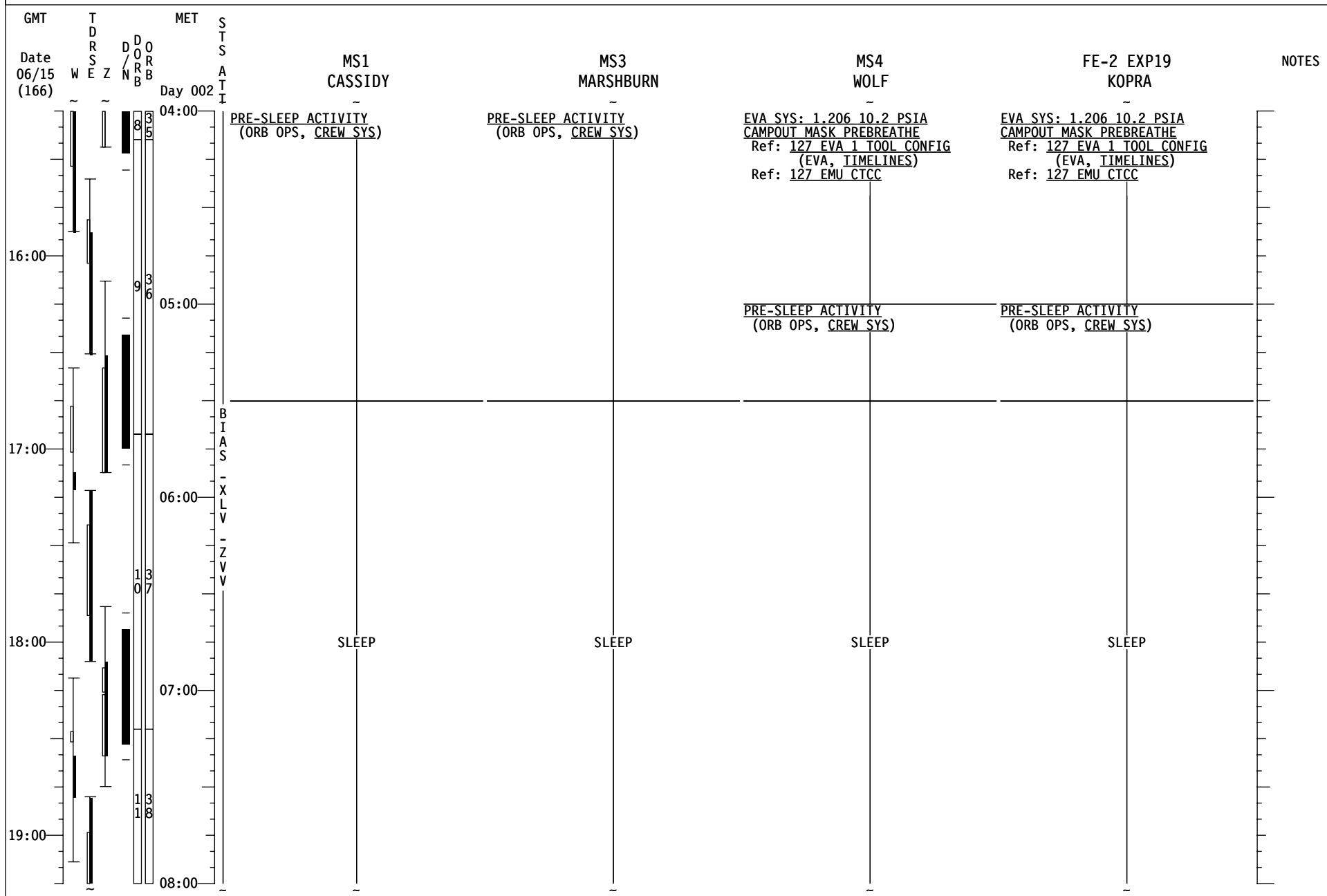
STS-127 FD (03)

GMT	T D R S E Z W E Z	D O R B N B	MET Day 002 I	S T S A T I	MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	FE-2 EXP19 KOPRA	NOTES		
Date 06/15 (166)	~ ~ ~ ~ ~	6 3 3	00:00	-	<u>EVA 1 TOOL CONFIG</u> (EVA, TIMELINES) Ref. MSG XXX	<u>EVA 1 TOOL CONFIG</u> (EVA, TIMELINES) Ref. MSG XXX	<u>EVA SYS: 1.403 REBA POWERED</u> <u>HARDWARE C/O</u> Perform on EMU 3003 & 3005 <u>EVA 1 TOOL CONFIG</u> (EVA, TIMELINES) Ref. MSG XXX	<u>EVA SYS: 1.403 REBA POWERED</u> <u>HARDWARE C/O</u> Perform on EMU 3003 & 3005 <u>EVA 1 TOOL CONFIG</u> (EVA, TIMELINES) Ref. MSG XXX			
			12:00	-	EXERCISE		<u>EVA SYS: 1.305 EQUIPMENT LK PREP</u> Steps 1-3 not req'd Ref: 127 EMU CTCC	<u>EVA SYS: 1.305 EQUIPMENT LK PREP</u> Steps 1-3 not req'd Ref: 127 EMU CTCC			
			13:00	-	7 3 4	-	<u>EVA 1 PROCEDURE REVIEW</u> Ref: 127 EVA 1 BRIEFING CARD (EVA, TIMELINES)	<u>LOW BACK PAIN QUEST (ASSY OPS,P/L)</u> <u>EVA 1 PROCEDURE REVIEW</u> Ref: 127 EVA 1 BRIEFING CARD (EVA, TIMELINES)	<u>EVA 1 PROCEDURE REVIEW</u> Ref: 127 EVA 1 BRIEFING CARD (EVA, TIMELINES)	<u>EVA 1 PROCEDURE REVIEW</u> Ref: 127 EVA 1 BRIEFING CARD (EVA, TIMELINES)	
			14:00	-	-	-	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>TRANSFER TAGUP</u> Coordinate with xfer counterpart	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	DAILY PLANNING CONFERENCE (DPC)	
			15:00	-	8 3 5	-		<u>TRANSFER BRIEF</u> Call down status to MCC <u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)		PRIVATE MEDICAL CONFERENCE	
04:00	-	-	-	-		<u>EVA SYS: 1.206 10.2 PSIA</u> <u>CAMPOUT MASK PREBREATHE</u> Ref: 127 EVA 1 TOOL CONFIG (EVA, TIMELINES) Ref: 127 EMU CTCC	<u>EVA SYS: 1.206 10.2 PSIA</u> <u>CAMPOUT MASK PREBREATHE</u> Ref: 127 EVA 1 TOOL CONFIG (EVA, TIMELINES) Ref: 127 EMU CTCC				

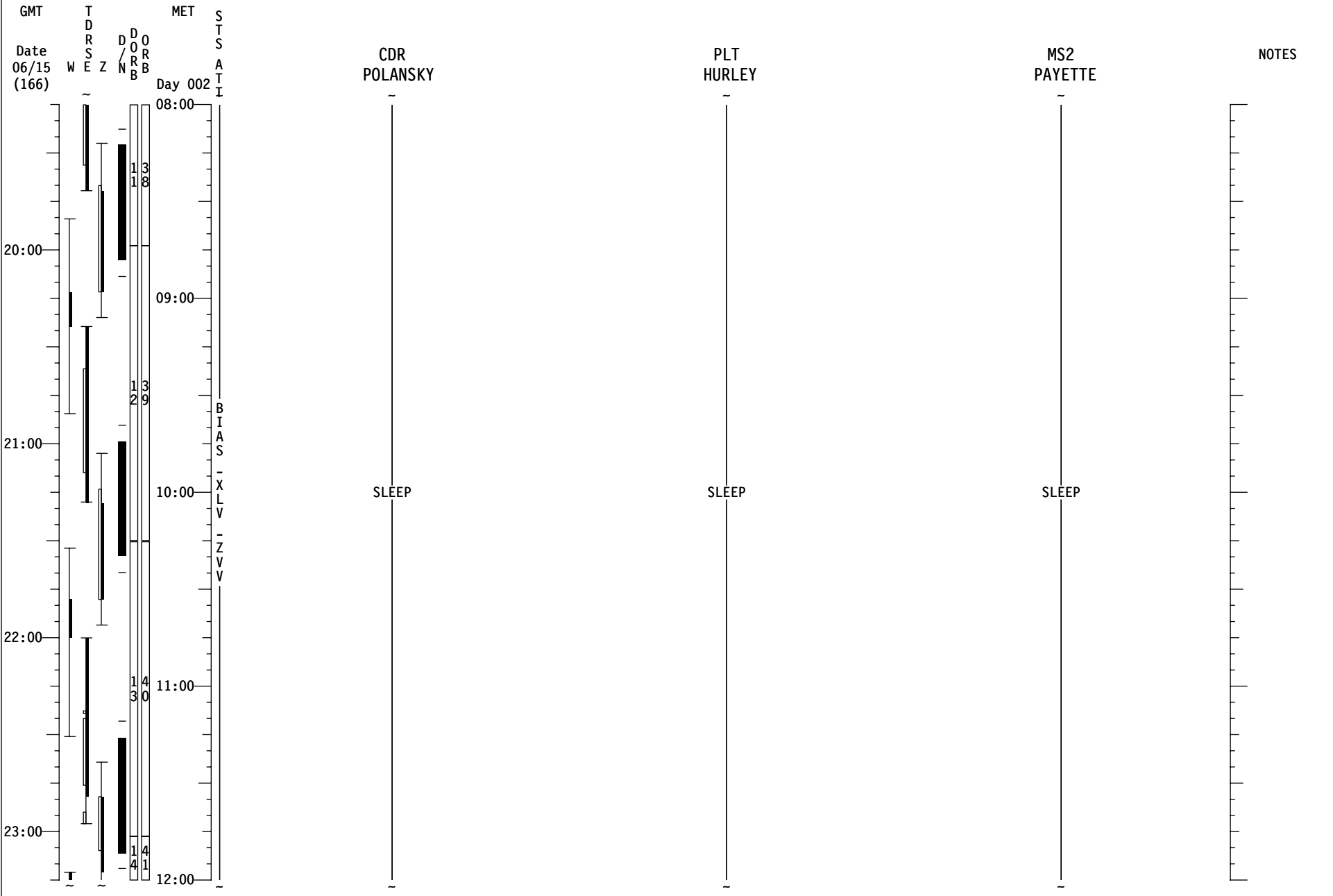
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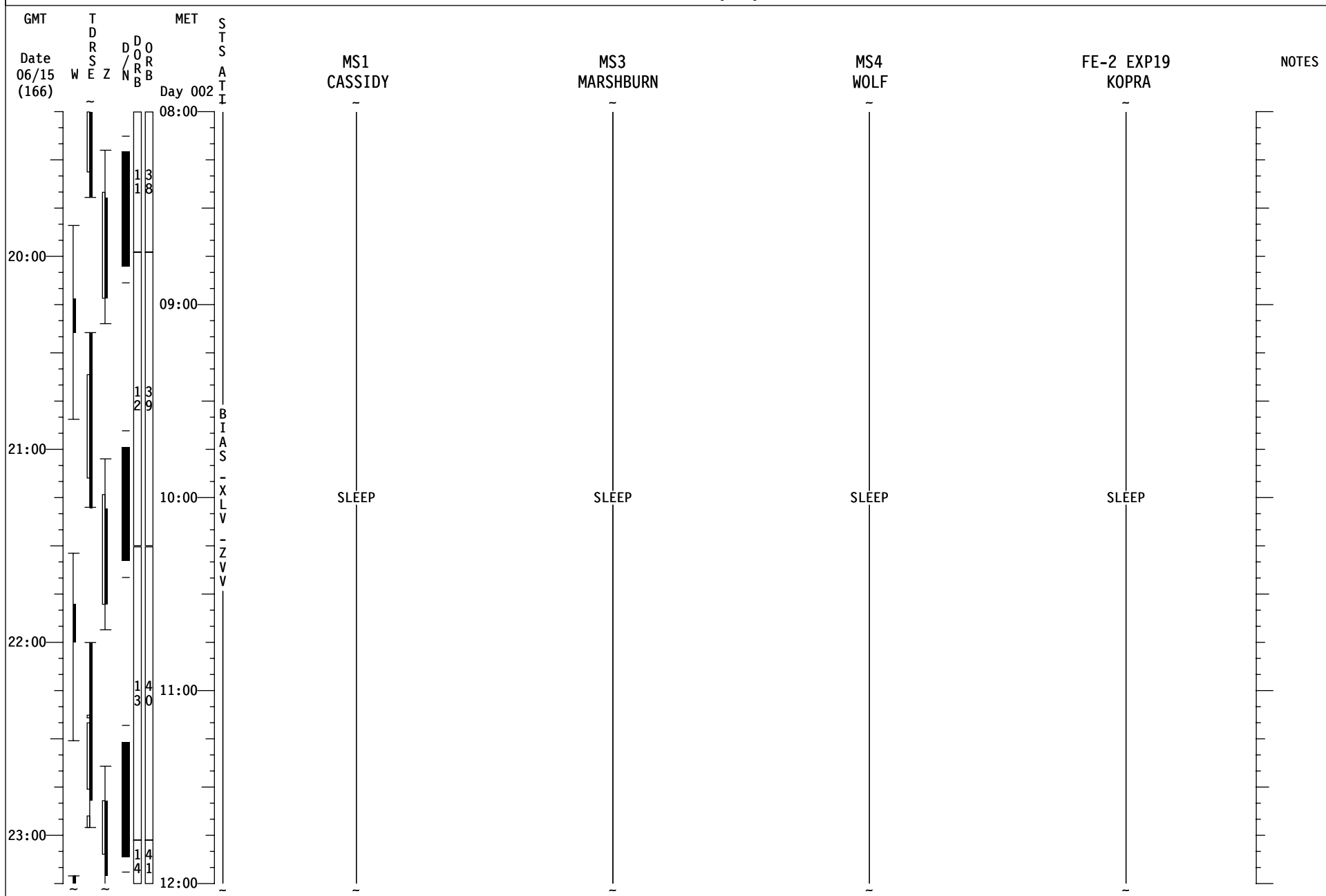
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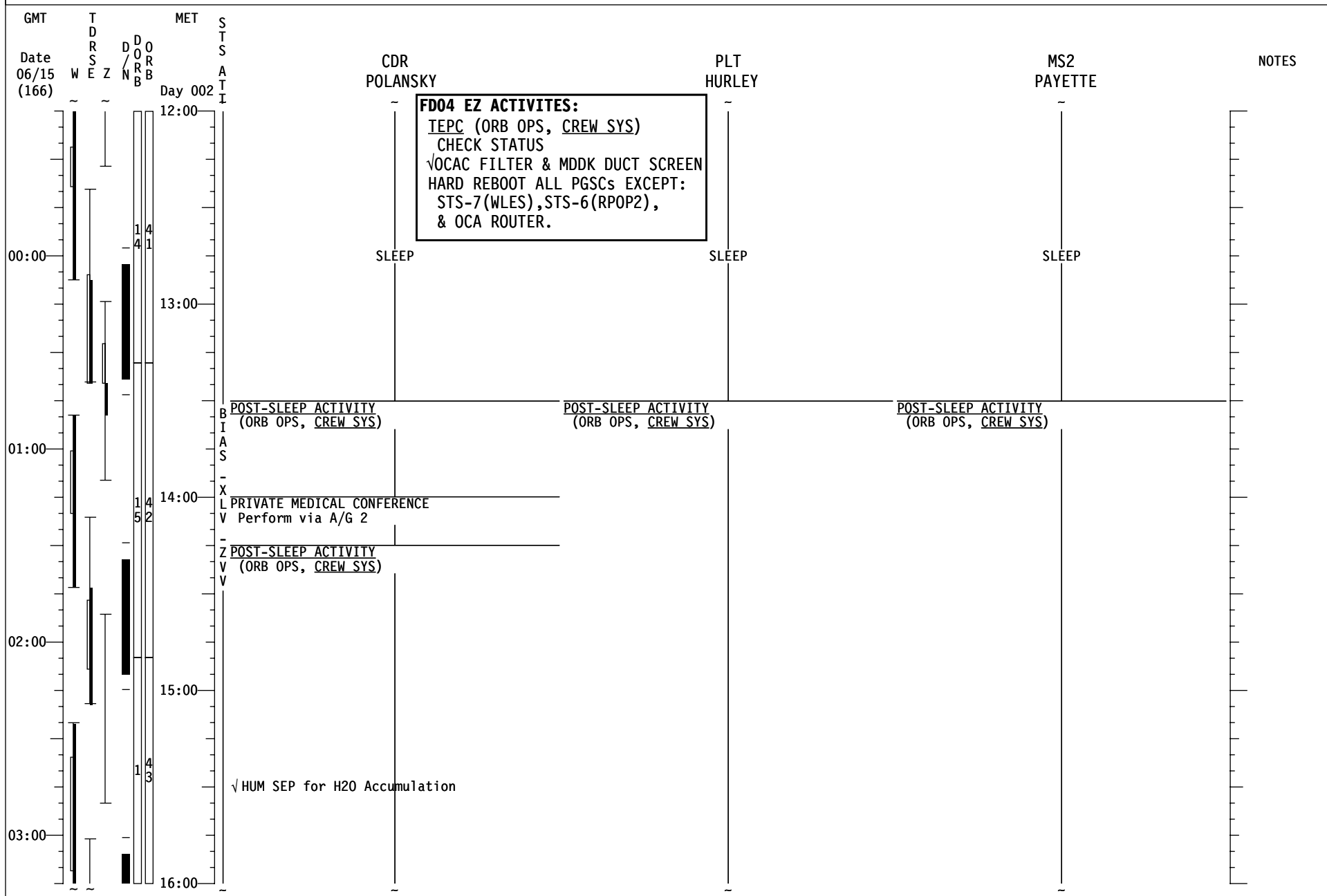
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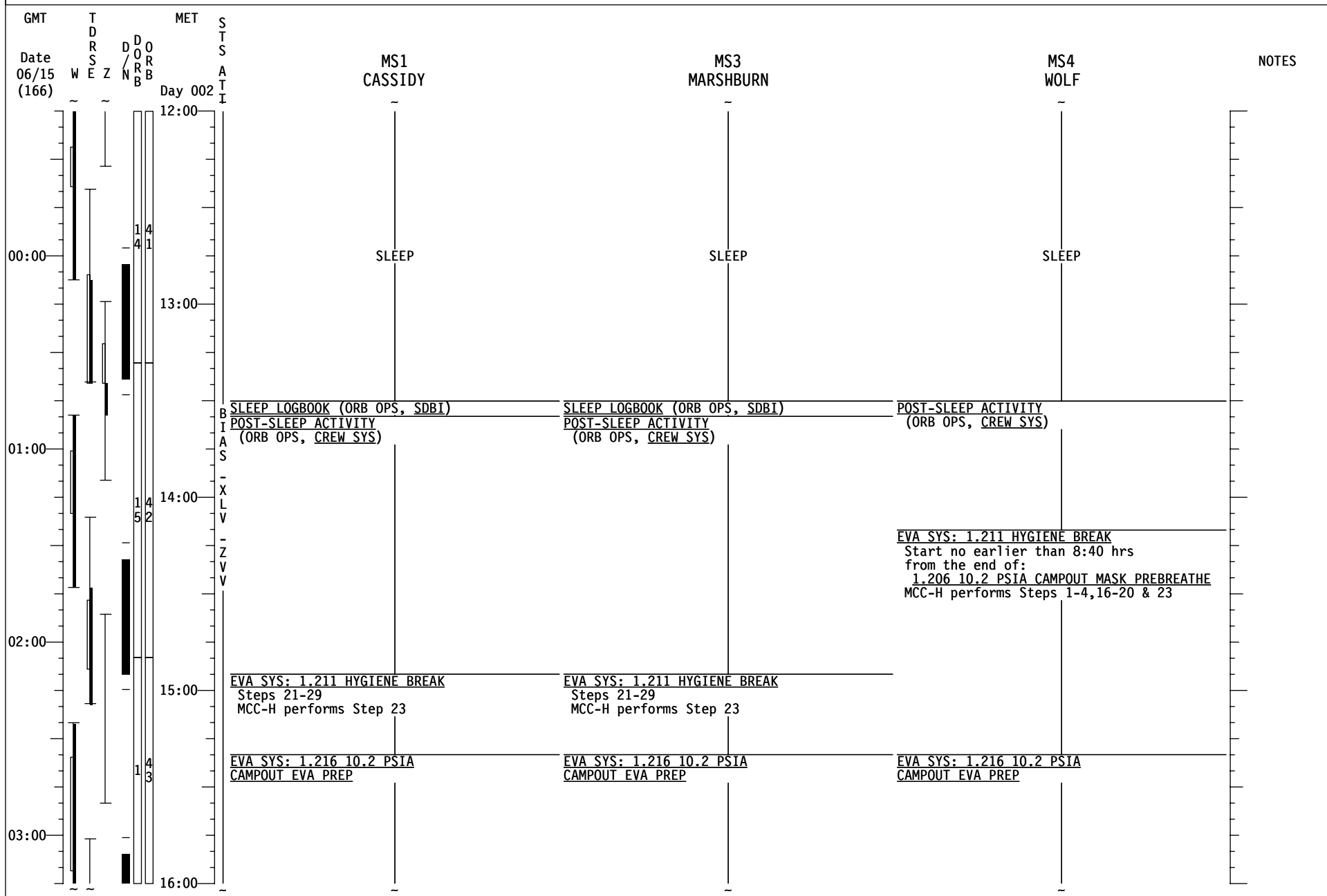
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STS-127 FD (04)



STS-127 FD (04)



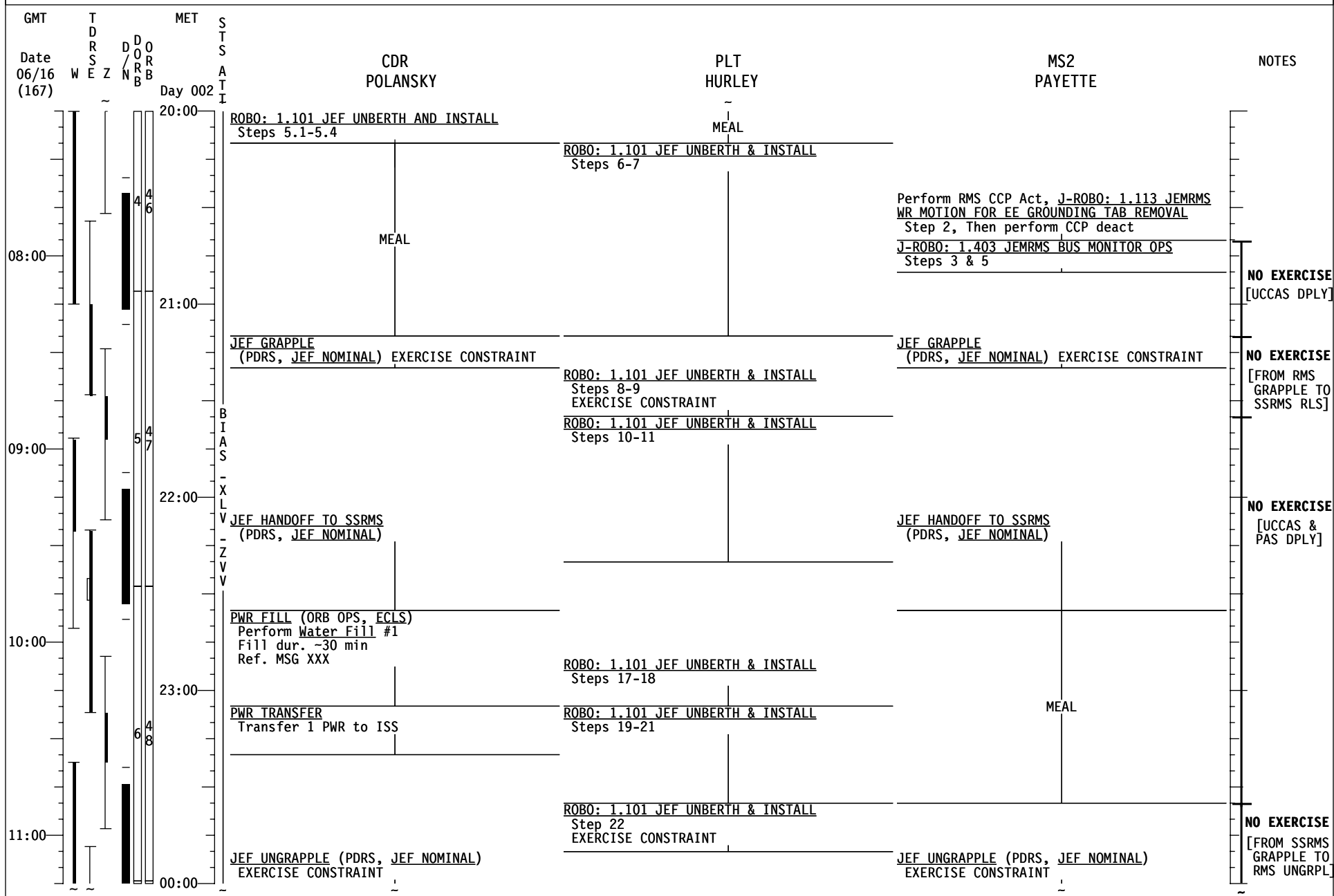
STS-127 FD (04)

GMT	TDRS W E Z	MET Day 002	S T S A T I	CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
Date 06/16 (167) 04:00 05:00 06:00 07:00 20:00	D O R B 1 3 2 4 3 4 4 5 4 6	16:00 17:00 18:00 19:00 20:00	B I A S - X L V Z V V	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) CWC-I FILL (ORB OPS, ECLS) Ref. MSG XXX DAILY TRANSFER LIST UPDATE Ref. Transfer List & MSG XXX EVA 1 INHIBIT PAD (EVA, TIMELINES) CWC-I TERM (ORB OPS, ECLS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) L17 Check MCIU filter screen TRANSFER OPS Ref. Transfer List & MSG XXX ROBO: 1.101 JEF UNBERTH & INSTALL Steps 1-4 EXERCISE EXERCISE EXERCISE MEAL	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) EXERCISE EXERCISE CWC-I FILL (ORB OPS, ECLS) Ref. MSG XXX P/TV06 ROBOTICS OPERATIONS (PHOTO/TV, SCENES) SETUP P/TV07 EVA (PHOTO/TV, SCENES) SETUP CWC-I TERM (ORB OPS, ECLS) P/TV07 EVA (PHOTO/TV, SCENES) OPS J-ROBO: 1.403 JEMRMS BUS MONITOR OPS Steps 1 & 2 1.102 ACTIVE EFBM OPS FOR JEF BERTHING (ASSY OPS, ACT & C/O) Steps 6-10	UPLINK β21 + Mask Box 2,4,8
				JOINT OPS: 3.102 NITROGEN TRANSFER INITIATION Verify MCC-H complete with Step 2, then perform Steps 3-4.4, 5.1 CWC-I TRANSFER Transfer 2 CWC-Is to ISS	TRANSFER OPS Ref. Transfer List & MSG XXX TRANSFER OPS Ref. Transfer List & MSG XXX TRANSFER OPS Ref. Transfer List & MSG XXX	P/TV07 EVA (PHOTO/TV, SCENES) OPS	

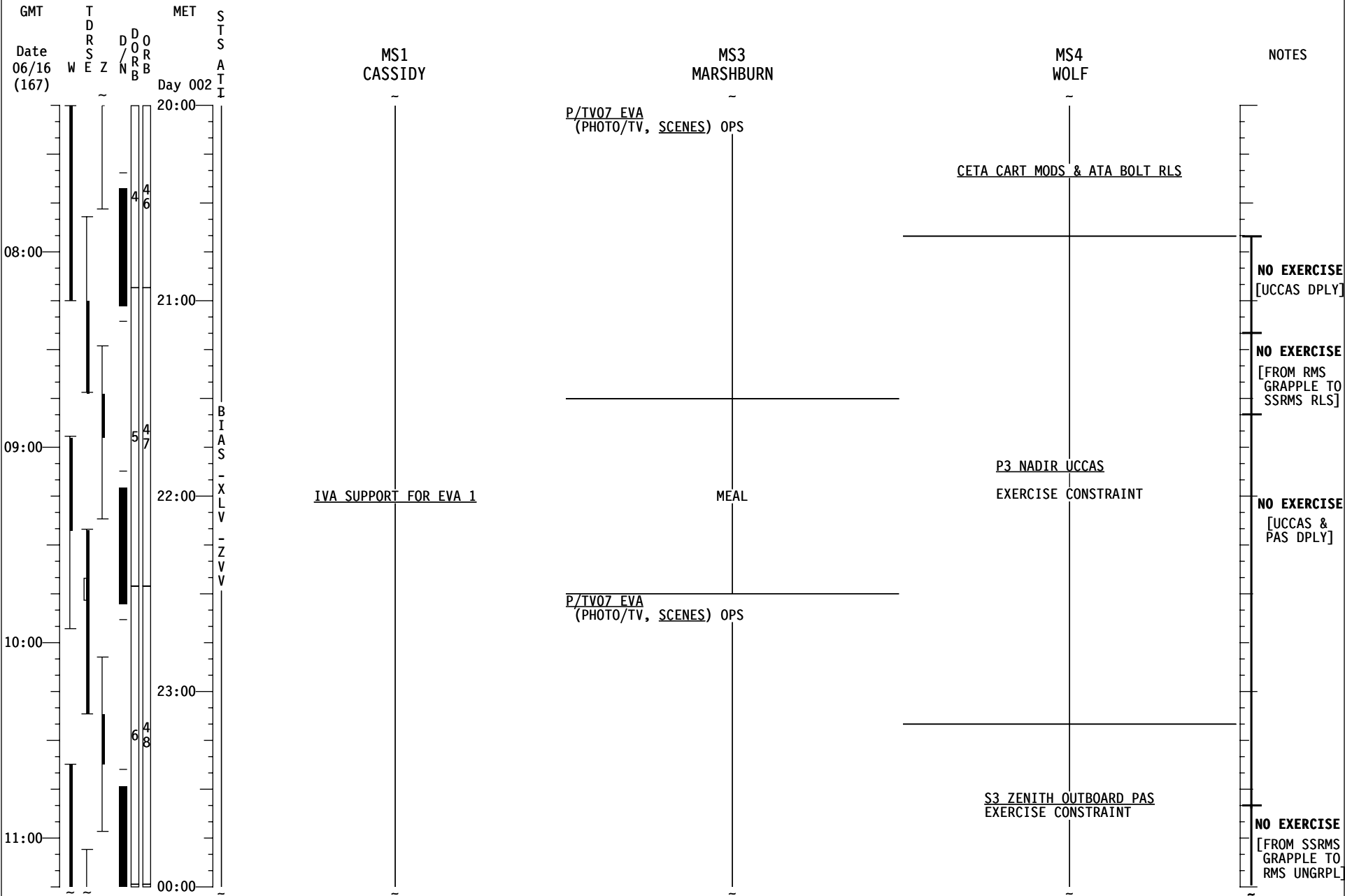
STS-127 FD (04)

GMT	T D R S W E Z	MET Day 002	S T S A T I	MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	NOTES
Date 06/16 (167)	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">D O R B N / B</div> <div style="margin-bottom: 10px;">1 4 3</div> <div style="margin-bottom: 10px;">2 4 4</div> <div style="margin-bottom: 10px;">3 4 5</div> <div style="margin-bottom: 10px;">4 4 6</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">B I A S</div> <div style="margin-bottom: 10px;">X L V</div> <div style="margin-bottom: 10px;">Z V</div> </div>	16:00	<u>EVA SYS: 1.216 10.2 PSIA</u> <u>CAMPOUT EVA PREP</u>	<u>EVA SYS: 1.216 10.2 PSIA</u> <u>CAMPOUT EVA PREP</u>	<u>EVA SYS: 1.216 10.2 PSIA</u> <u>CAMPOUT EVA PREP</u>	
			04:00	<u>EVA SYS: 1.220 EMU PURGE</u>	<u>EVA SYS: 1.220 EMU PURGE</u>	<u>EVA SYS: 1.220 EMU PURGE</u>	
			17:00	<u>EVA SYS: 1.225 EMU PREBREATHE</u>	<u>EVA SYS: 1.225 EMU PREBREATHE</u>	<u>EVA SYS: 1.225 EMU PREBREATHE</u>	
			05:00	<u>EVA SYS: CREWLOCK DEPRESS (CC)</u>	<u>EVA SYS: CREWLOCK DEPRESS (CC)</u>	<u>EVA SYS: CREWLOCK DEPRESS (CC)</u>	
			18:00	<u>EVA SYS: CREWLOCK POST DEPRESS (CC)</u>	<u>EVA SYS: CREWLOCK POST DEPRESS (CC)</u>	<u>EVA SYS: CREWLOCK POST DEPRESS (CC)</u> <u>EVA SYS: CREWLOCK EGRESS (CC)</u>	
			06:00	<u>IVA SUPPORT FOR EVA 1</u>	<u>EXERCISE</u>	<u>EVA 1 SETUP</u>	
			07:00	<u>P/TV07 EVA</u> <u>(PHOTO/TV, SCENES) OPS</u>	<u>JPM BM PREP & JEM RMS GRD STRAP</u>		
			20:00	<u>CETA CART MODS & ATA BOLT RLS</u>			

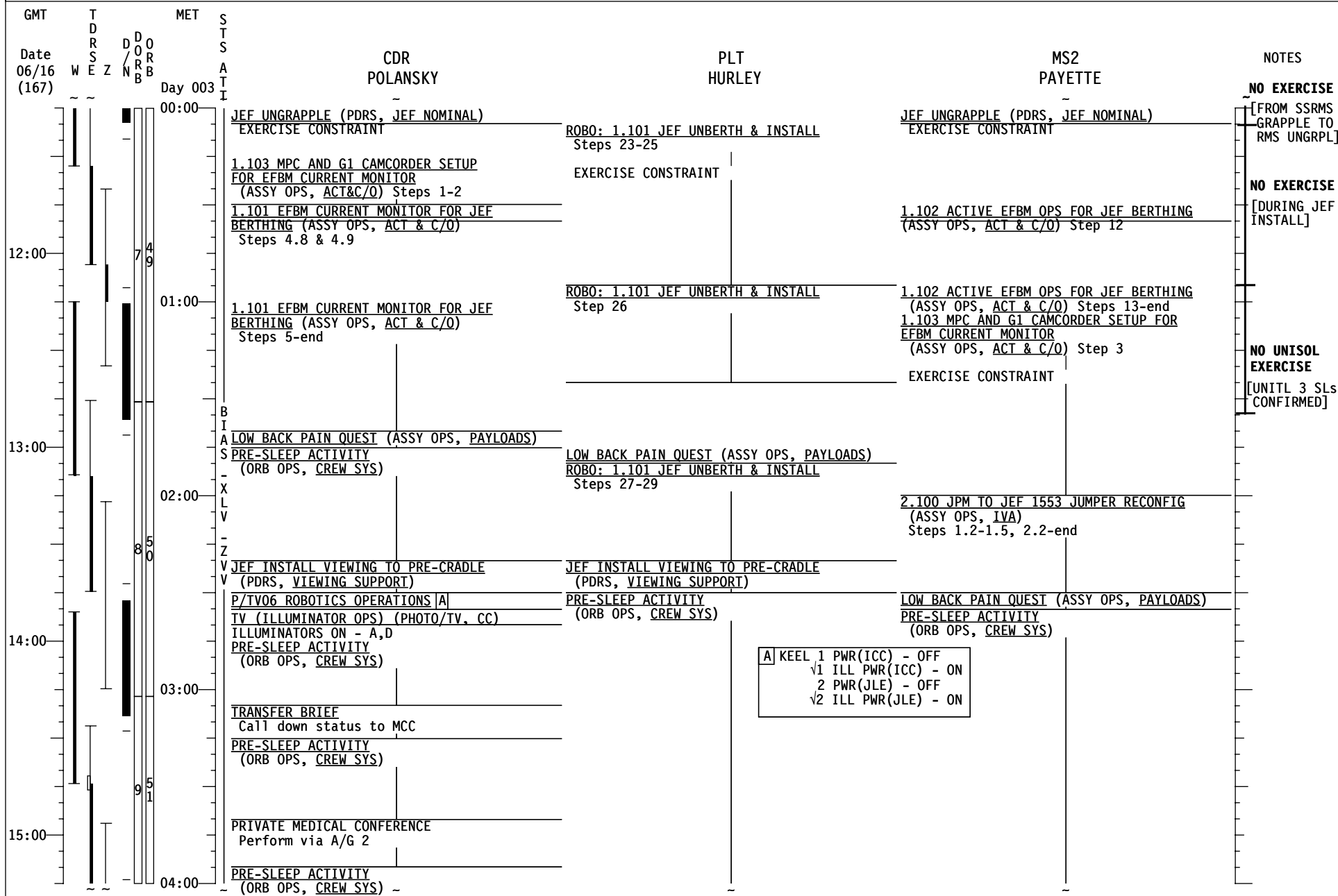
STS-127 FD (04)



STS-127 FD (04)

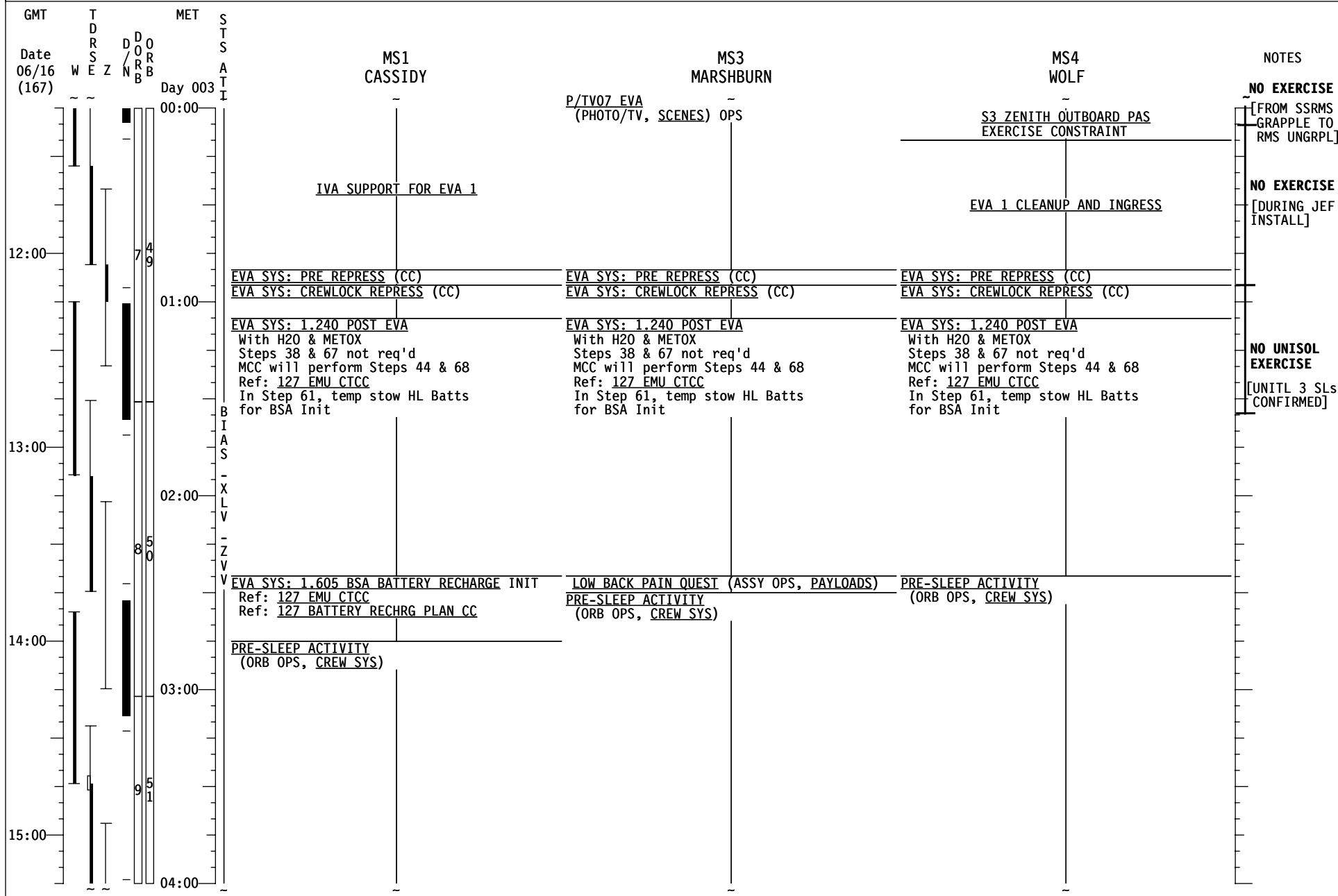


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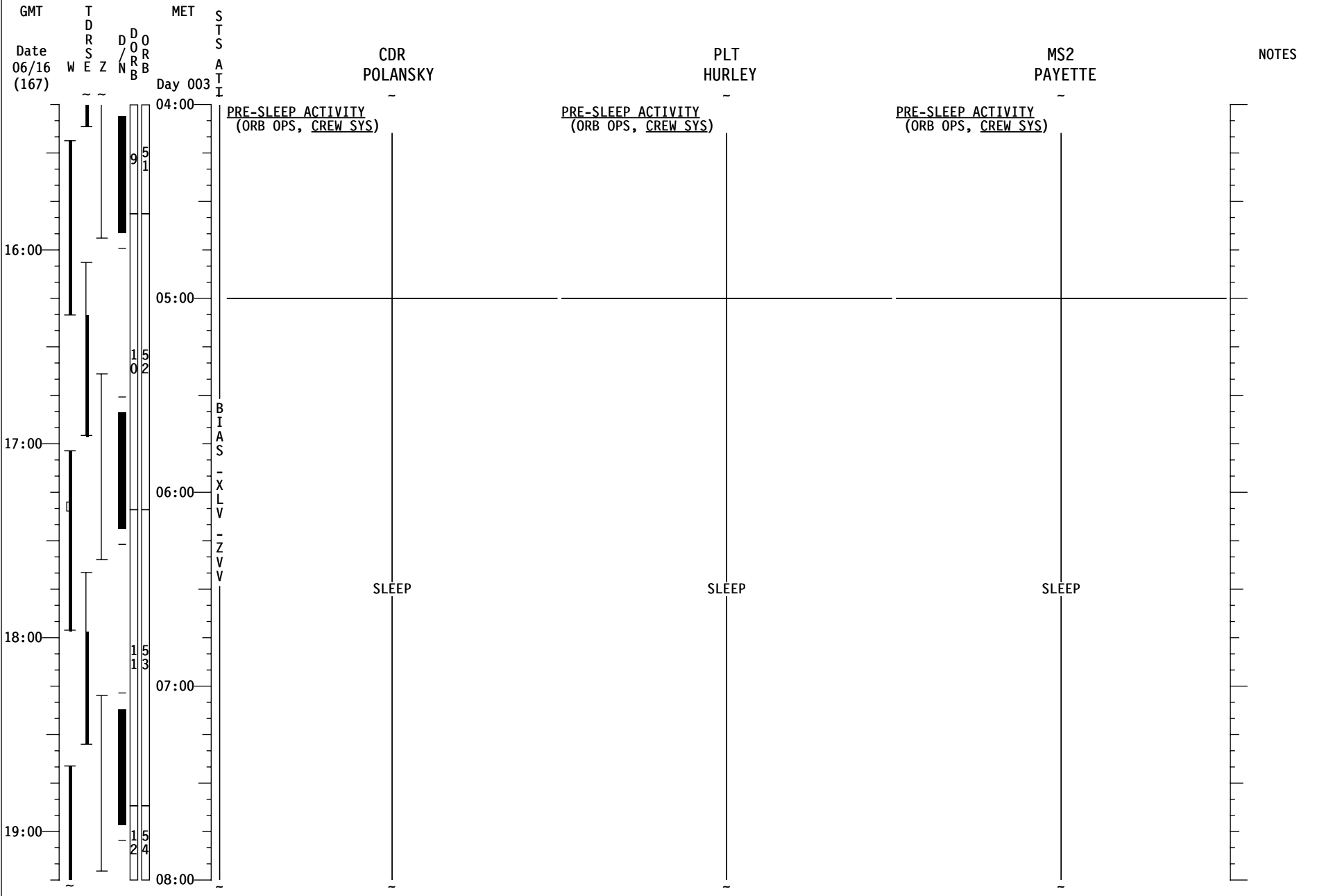


A) KEEL 1 PWR(ICC) - OFF
 v1 ILL PWR(ICC) - ON
 2 PWR(JLE) - OFF
 v2 ILL PWR(JLE) - ON

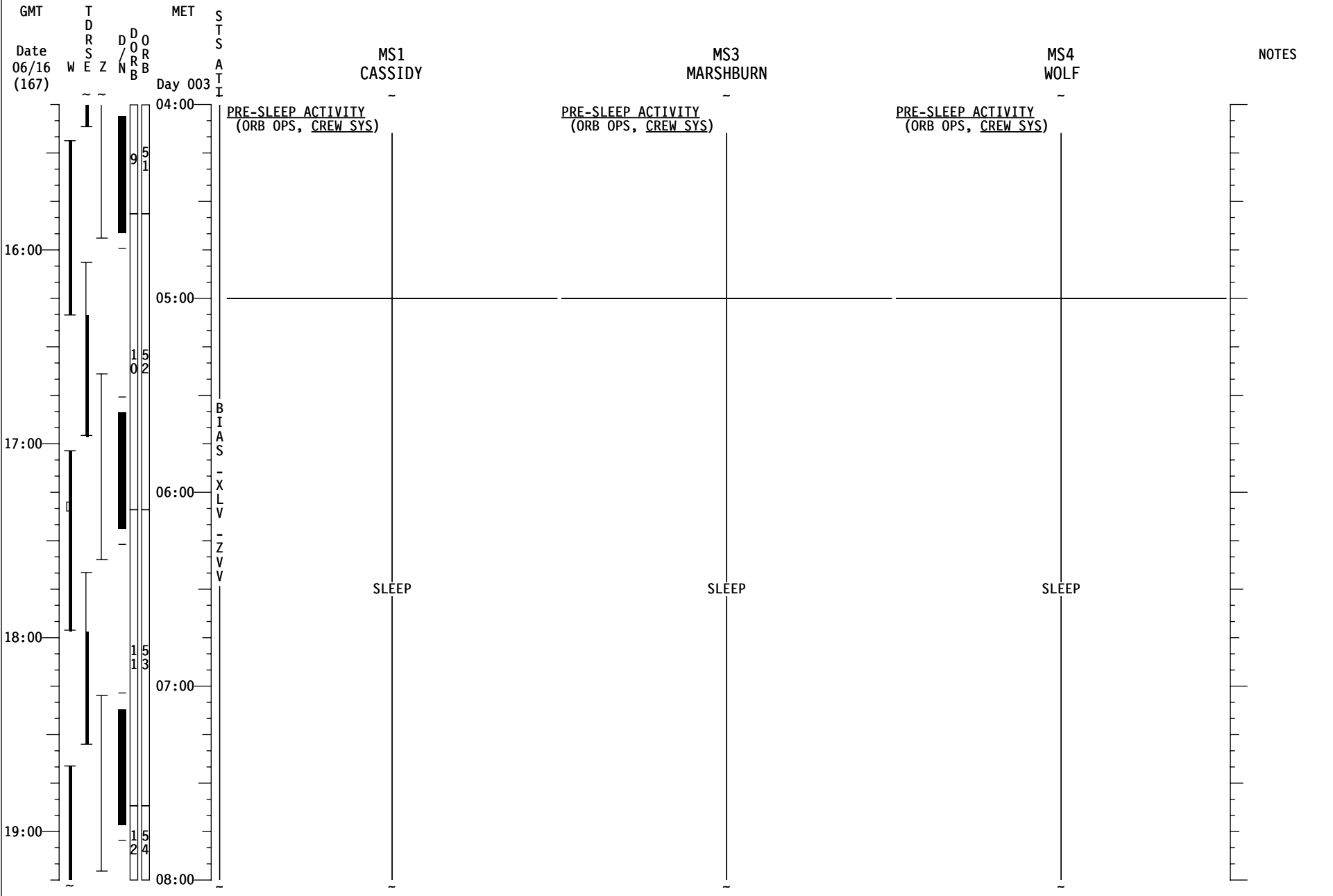
STS-127 FD (04)



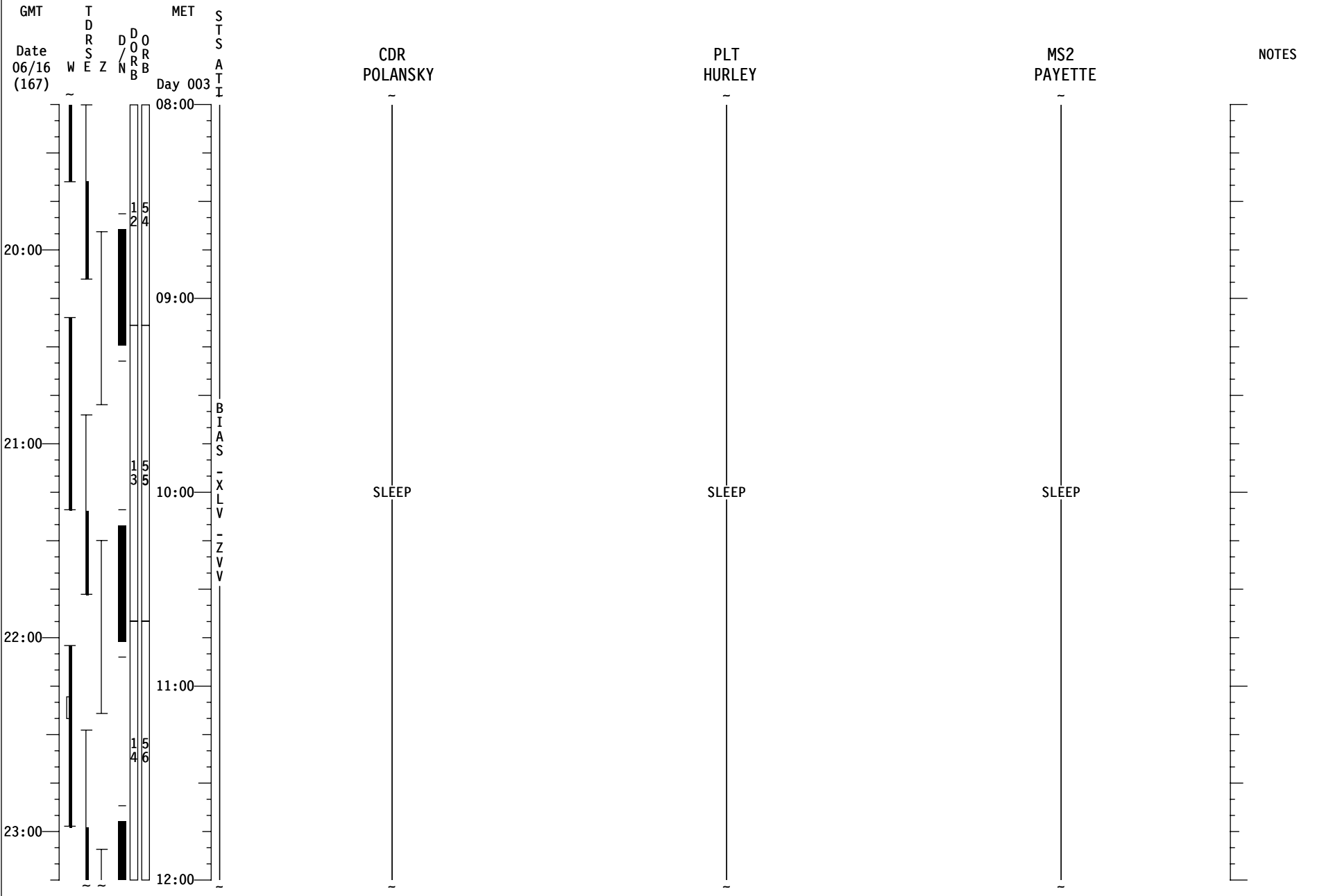
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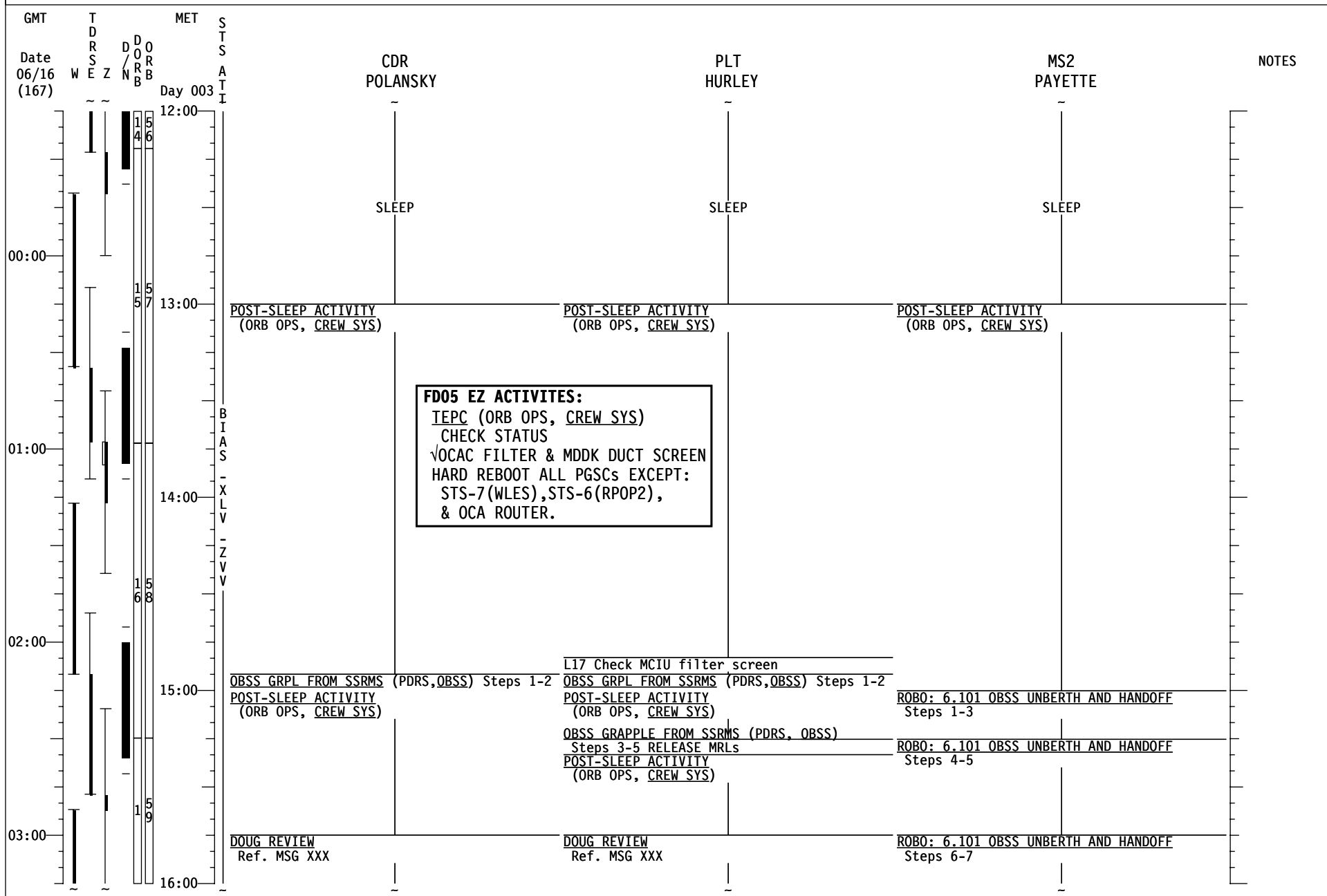
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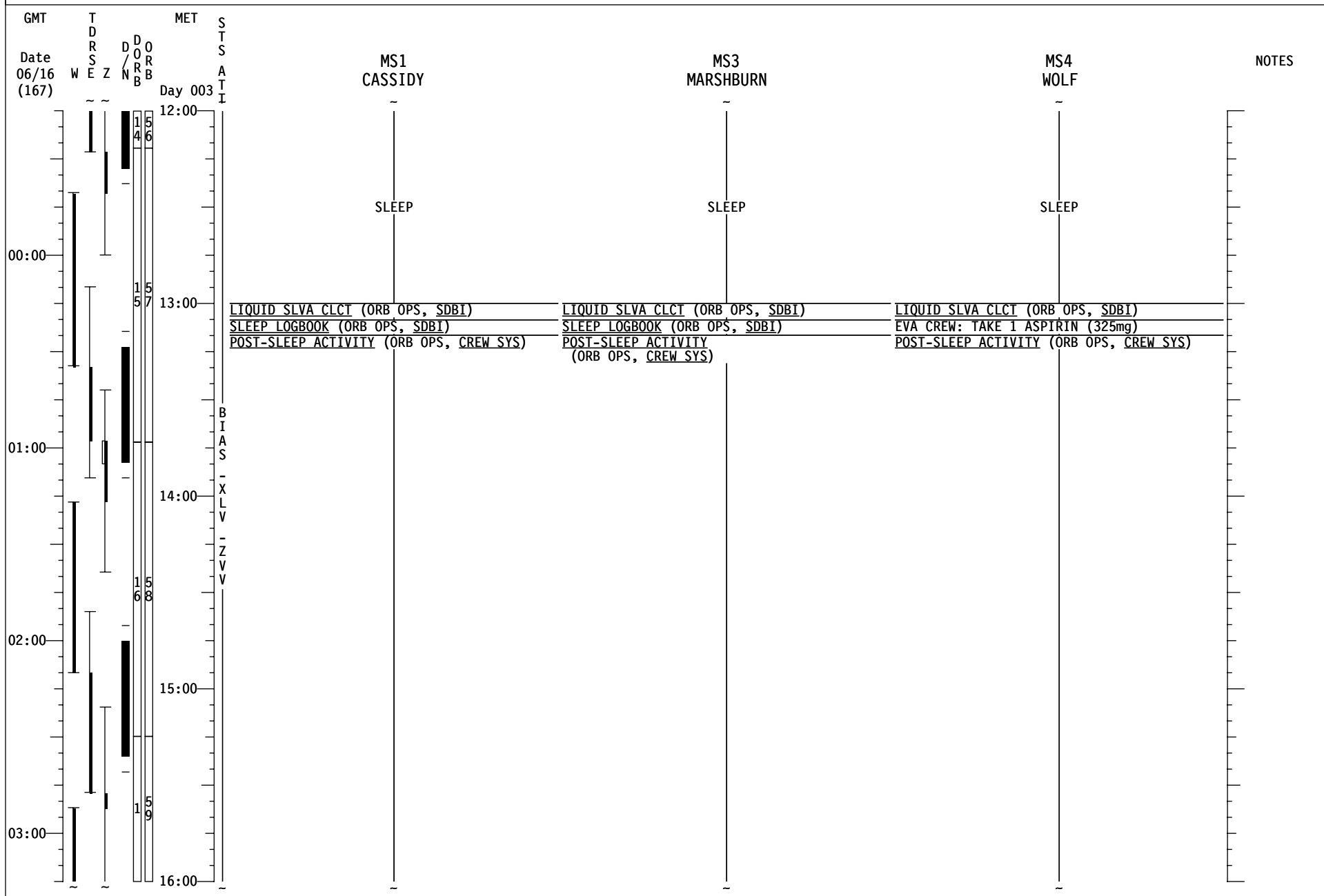
STS-127 FD (04)



STS-127 FD (05)



STS-127 FD (05)



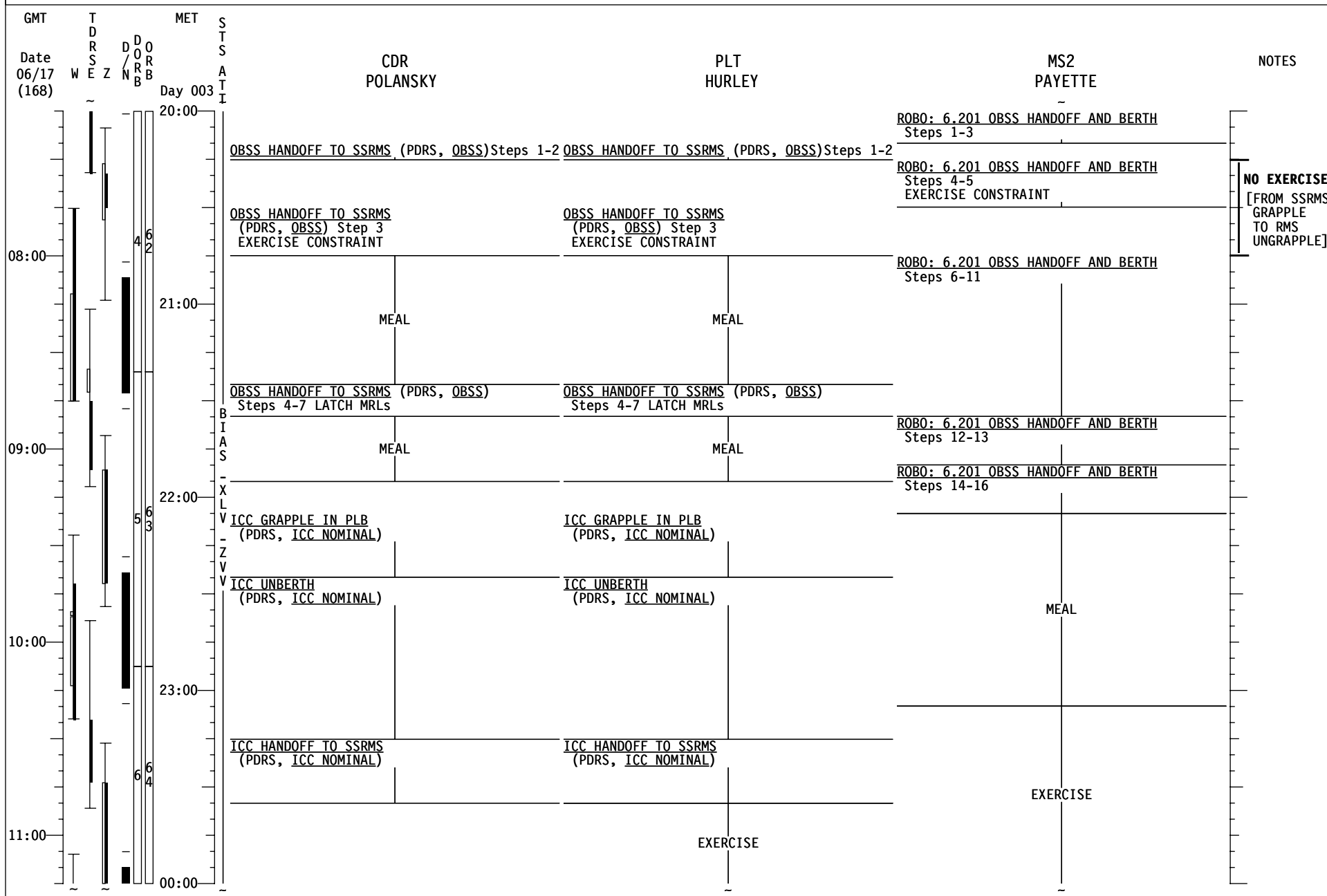
STS-127 FD (05)

GMT	T D R S E Z W	D O R B N	MET Day 003	S T S A T I	CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
06/17 (168)								
16:00					<u>DOUG REVIEW</u> Ref. MSG XXX	<u>DOUG REVIEW</u> Ref. MSG XXX	<u>ROBO: 6.101 OBSS UNBERTH AND HANDOFF</u> Steps 6-7	
04:00					<u>OBSS GRAPPLE FROM SSRMS</u> (PDRS, OBSS) Steps 6-8 EXERCISE CONSTRAINT	<u>OBSS GRAPPLE FROM SSRMS</u> (PDRS, OBSS) Steps 6-8 EXERCISE CONSTRAINT	<u>ROBO: 6.101 OBSS UNBERTH AND HANDOFF</u> Steps 8-9 EXERCISE CONSTRAINT	NO EXERCISE [FROM RMS GRAPPLE TO SSRMS RLS]
						<u>ROBO: 6.301 FOCUSED INSPECTION SUPPORT</u>		
05:00					<u>FOCUSED INSPECTION</u> Ref. MSG XXX EXERCISE CONSTRAINT	<u>FOCUSED INSPECTION</u> Ref. MSG XXX EXERCISE CONSTRAINT	<u>FOCUSED INSPECTION</u> Ref. MSG XXX EXERCISE CONSTRAINT	
06:00								NO EXERCISE [DURING LCS FI]
07:00							<u>ROBO: 6.201 OBSS HANDOFF AND BERTH</u> Steps 1-3	<u>UPLINK</u> β21 + Mask Box 2,3,4,5
20:00								

STS-127 FD (05)

GMT	T D R S E Z	D O R B	MET	S T S	MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	NOTES
Date 06/17 (168)	W	E	Day 003	A T I				
					<p>16:00 POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)</p> <p>TV (ILLUMINATOR OPS) (PHOTO/TV, CC)</p> <p>ILLUMINATORS OFF - ALL</p> <p>FILTER CLEANING (IFM, SCHEDULED MAINTENANCE)</p> <p>Inspect filters and clean as necessary. Do not perform MCIU Filter Check.</p>	<p>POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)</p> <p>DAILY TRANSFER LIST UPDATE</p> <p>Ref. Transfer List & MSG XXX</p> <p>EVA 2 TOOL CONFIG (EVA, TIMELINES)</p> <p>Ref. MSG XXX</p>	<p>POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)</p> <p>EVA 2 TOOL CONFIG (EVA, TIMELINES)</p> <p>Ref. MSG XXX</p>	
04:00								NO EXERCISE [FROM RMS GRAPPLE TO SSRMS RLS]
					<p>EVA 2 TOOL CONFIG (EVA, TIMELINES)</p> <p>Ref. MSG XXX</p>			
05:00								
					<p>X EVA SYS: 1.605 BSA BATTERY RECHARGE TERM</p> <p>Ref: 127 EMU CTCC</p> <p>V EVA SYS: 1.605 BSA BATTERY RECHARGE INIT</p> <p>Ref: 127 EMU CTCC</p> <p>Z EVA SYS: 1.605 BSA BATTERY RECHRG PLAN CC</p>	<p>TRANSFER OPS</p> <p>Ref. Transfer List & MSG XXX</p>	<p>TRANSFER OPS</p> <p>Ref. Transfer List & MSG XXX</p>	NO EXERCISE [DURING LCS FI]
06:00					<p>V EVA SYS: 1.510 METOX REGENERATION TERM</p> <p>GREASE GUN CLEANUP (EVA, TOOLS & STOWAGE)</p>	<p>EMU RECONFIG FOR EVA 2 (EVA, AIRLOCK CONFIG)</p>	<p>EMU RECONFIG FOR EVA 2 (EVA, AIRLOCK CONFIG)</p>	
					<p>EXERCISE</p>	<p>EVA SYS: 1.515 EMU METOX/LI/OH/BATTERY REPLACEMENT Install METOX Canisters</p> <p>Ref: 127 EMU CTCC</p>	<p>EVA SYS: 1.515 EMU METOX/LI/OH/BATTERY REPLACEMENT Install METOX Canisters</p> <p>Ref: 127 EMU CTCC</p>	
07:00						<p>EVA SYS: 1.403 REBA POWERED HARDWARE C/O</p> <p>Perform on EMU XXXX</p>	<p>EVA SYS: 1.403 REBA POWERED HARDWARE C/O</p> <p>Perform on EMU XXXX</p>	
20:00								

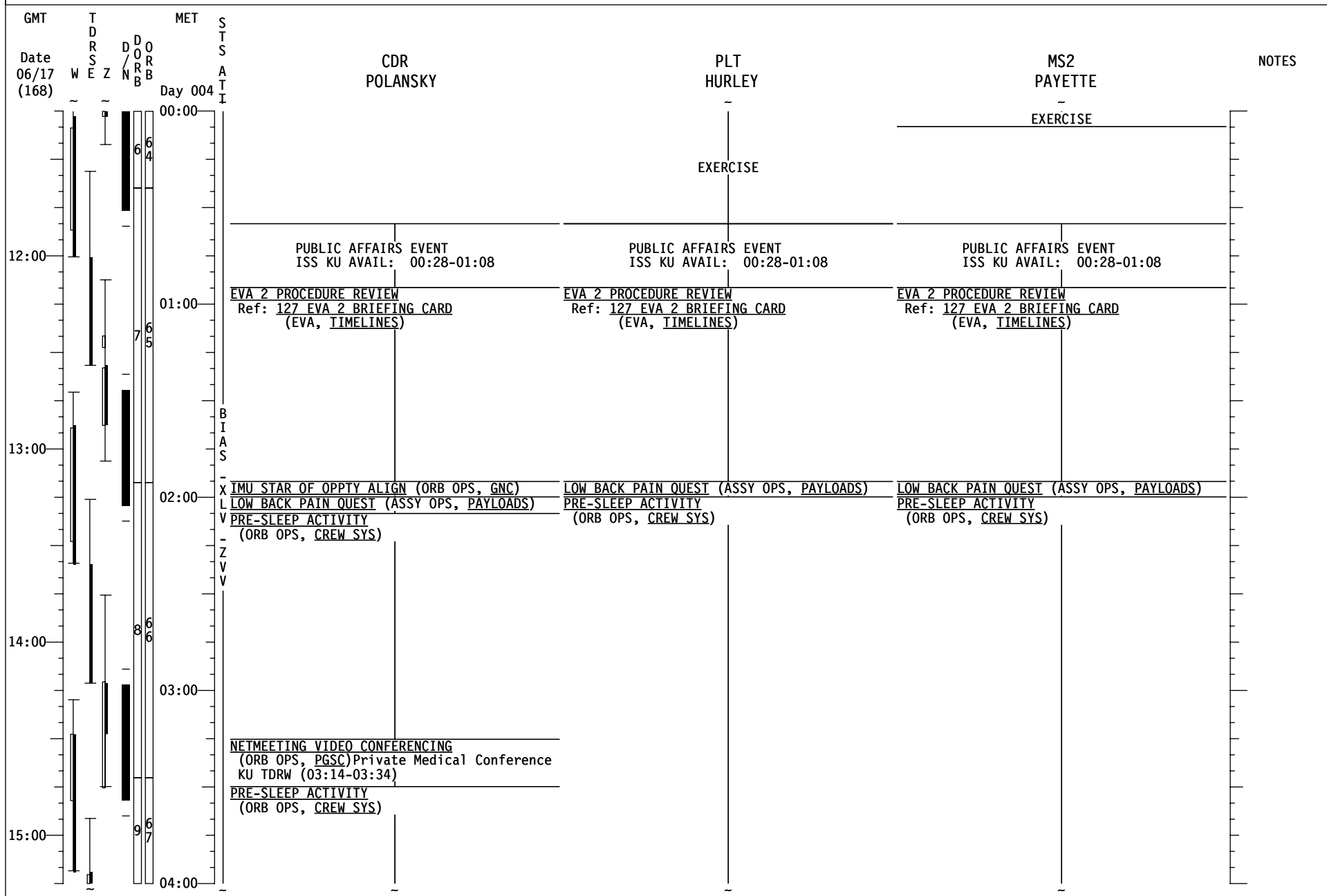
STS-127 FD (05)



STS-127 FD (05)

GMT	TDRSEZ	MET	S	MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	NOTES
Date 06/17 (168)	W E Z	Day 003	S A T I				
	DORBN						
20:00				EXERCISE	EVA SYS: 1.305 EQUIPMENT LK PREP Steps 1-3 not req'd Ref: 127 EMU CTCC	EVA SYS: 1.305 EQUIPMENT LK PREP Steps 1-3 not req'd Ref: 127 EMU CTCC	
08:00				PWR FILL (ORB OPS, ECLS) Perform Water Fill #2 Fill dur. ~30 min Ref. MSG XXX			NO EXERCISE [FROM SSRMS GRAPPLE TO RMS UNGRAPPLE]
				PWR TRANSFER Transfer 1 PWR to ISS			
09:00				MEAL	MEAL	MEAL	
22:00						TRANSFER OPS Ref. Transfer List & MSG XXX	
10:00				CWC-I FILL (ORB OPS, ECLS) Ref. MSG XXX	EXERCISE		
					TRANSFER OPS Ref. Transfer List & MSG XXX	EXERCISE	
23:00				CWC-I TERM CWC-I INIT (ORB OPS, ECLS) Ref. MSG XXX			
						TRANSFER OPS Ref. Transfer List & MSG XXX	
11:00				CWC-I TERM (ORB OPS, ECLS)			
00:00							

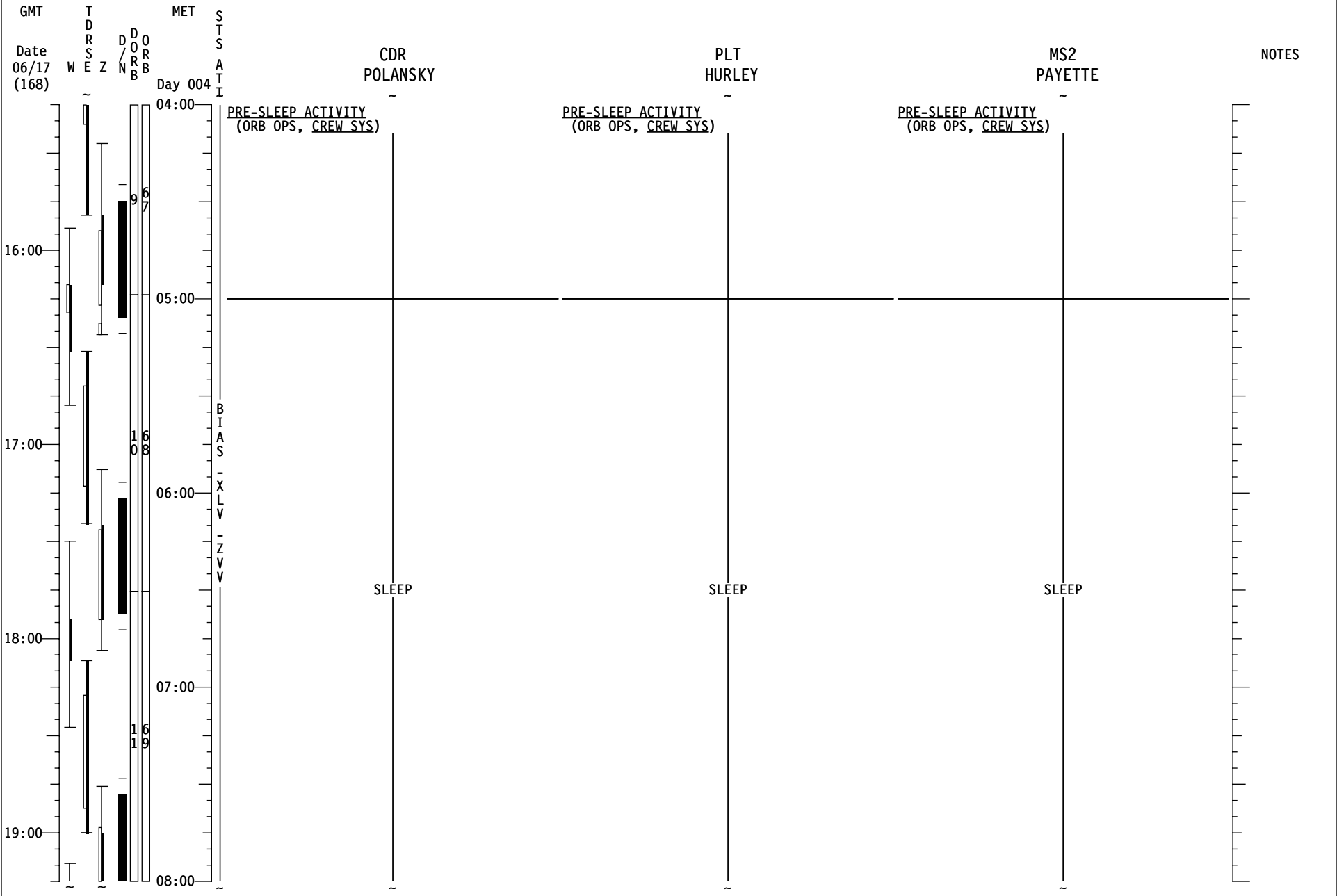
STS-127 FD (05)



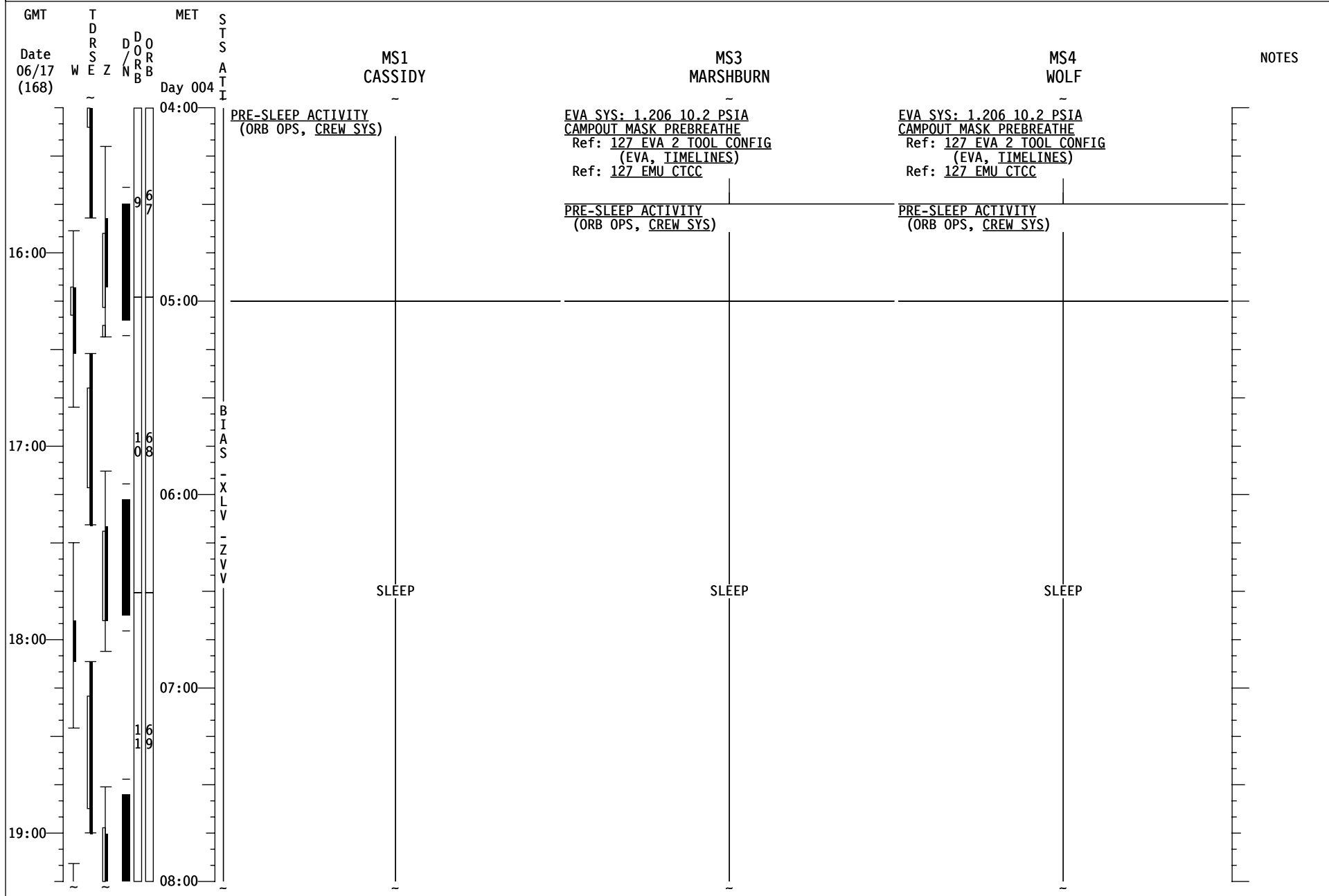
STS-127 FD (05)

GMT	T D R S E Z	MET	S T S	MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	NOTES
Date 06/17 (168)	W E Z	Day 004	A T I				
	D O R B 6 4						
00:00				<u>CWC-I TERM (ORB OPS, ECLS)</u> <u>CWC-I TRANSFER</u> Transfer 2 CWC-Is to ISS	<u>TRANSFER TAGUP</u> Coordinate with xfer counterpart	<u>TRANSFER TAGUP</u> Coordinate with xfer counterpart	
					<u>TRANSFER BRIEF</u> Call down status to MCC		
					<u>LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)</u>		
12:00				PUBLIC AFFAIRS EVENT ISS KU AVAIL: 00:28-01:08	PUBLIC AFFAIRS EVENT ISS KU AVAIL: 00:28-01:08	PUBLIC AFFAIRS EVENT ISS KU AVAIL: 00:28-01:08	
				<u>EVA 2 PROCEDURE REVIEW</u> Ref: <u>127 EVA 2 BRIEFING CARD</u> (EVA, TIMELINES)	<u>EVA 2 PROCEDURE REVIEW</u> Ref: <u>127 EVA 2 BRIEFING CARD</u> (EVA, TIMELINES)	<u>EVA 2 PROCEDURE REVIEW</u> Ref: <u>127 EVA 2 BRIEFING CARD</u> (EVA, TIMELINES)	
13:00							
				<u>TV (ILLUMINATOR OPS) (PHOTO/TV, CC)</u> <u>X ILLUMINATORS ON - A,D</u> <u>L PRE-SLEEP ACTIVITY</u> <u>V (ORB OPS, CREW SYS)</u>	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	
14:00							
15:00					<u>EVA SYS: 1.206 10.2 PSIA</u> <u>CAMPOUT MASK PREBREATHE</u> Ref: <u>127 EVA 2 TOOL CONFIG</u> (EVA, TIMELINES) Ref: <u>127 EMU CTCC</u>	<u>EVA SYS: 1.206 10.2 PSIA</u> <u>CAMPOUT MASK PREBREATHE</u> Ref: <u>127 EVA 2 TOOL CONFIG</u> (EVA, TIMELINES) Ref: <u>127 EMU CTCC</u>	
04:00							

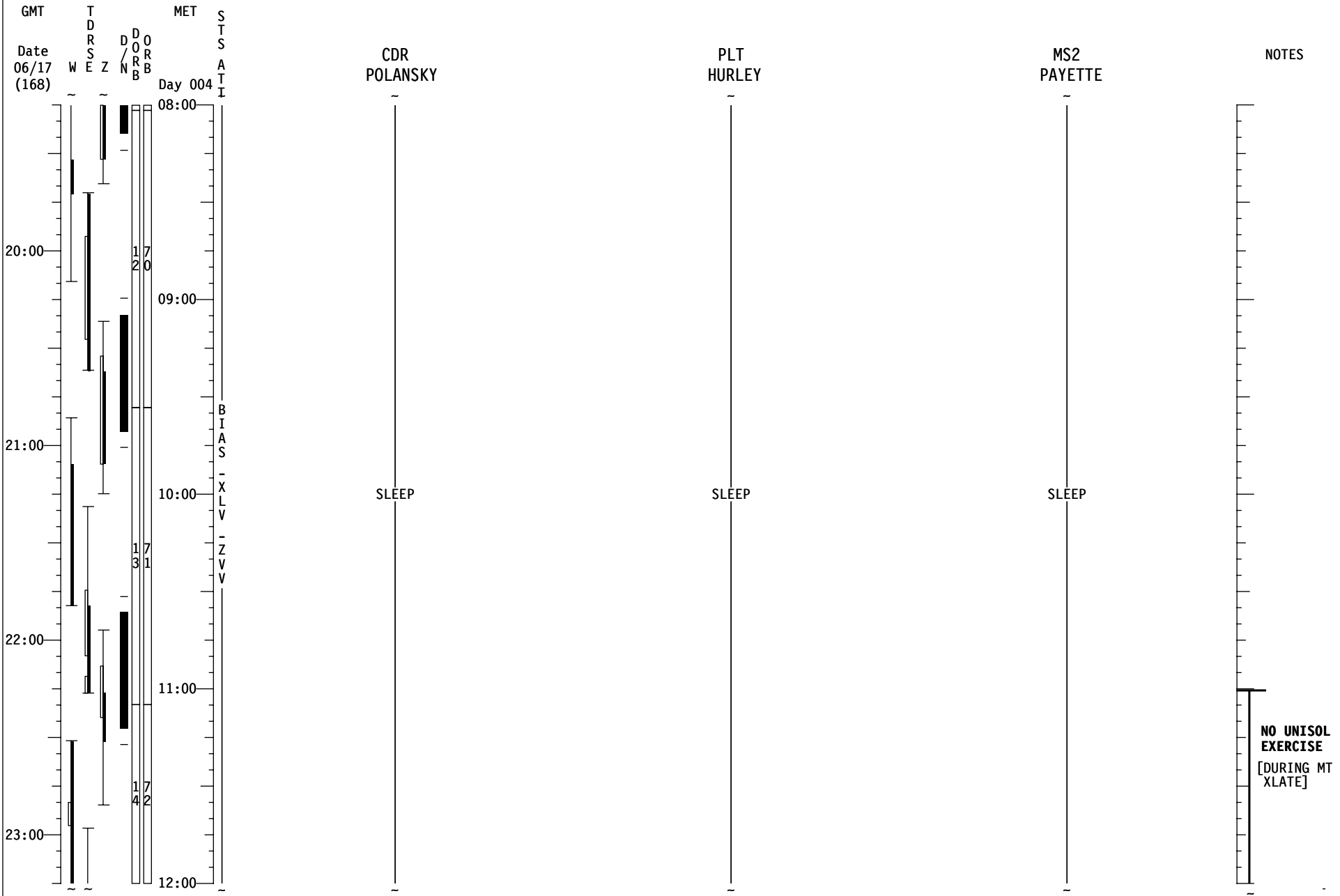
STS-127 FD (05)



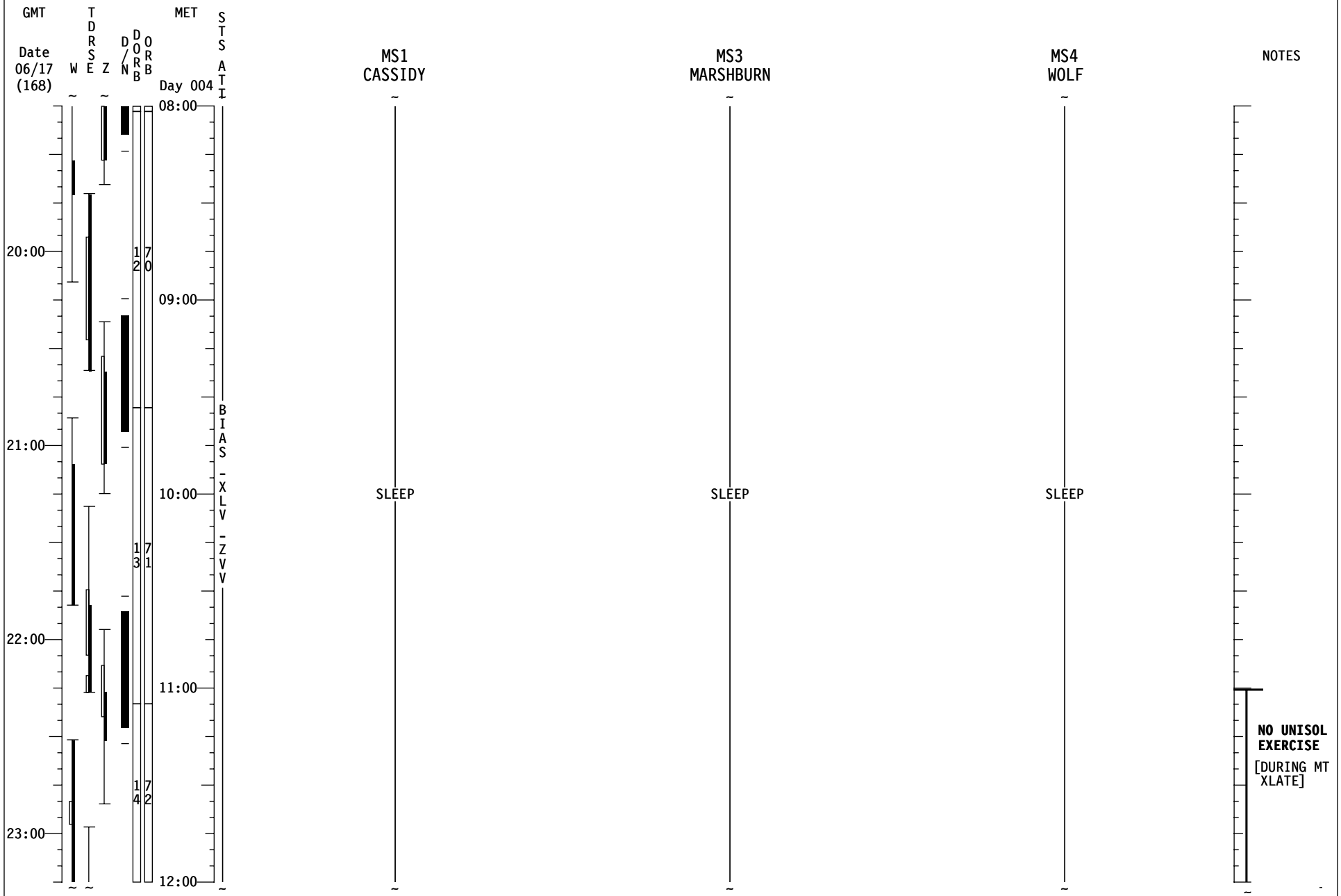
STS-127 FD (05)



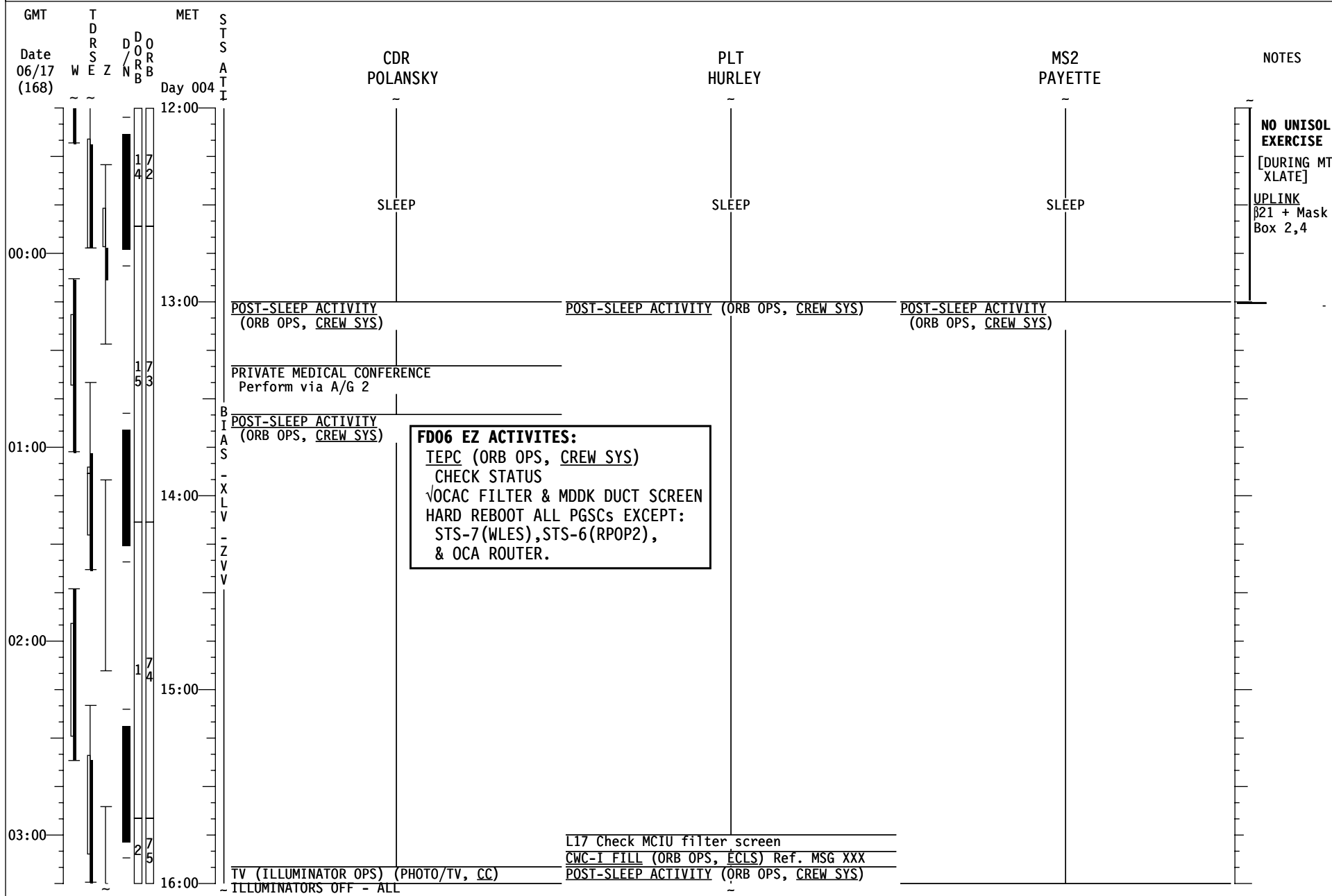
STS-127 FD (05)



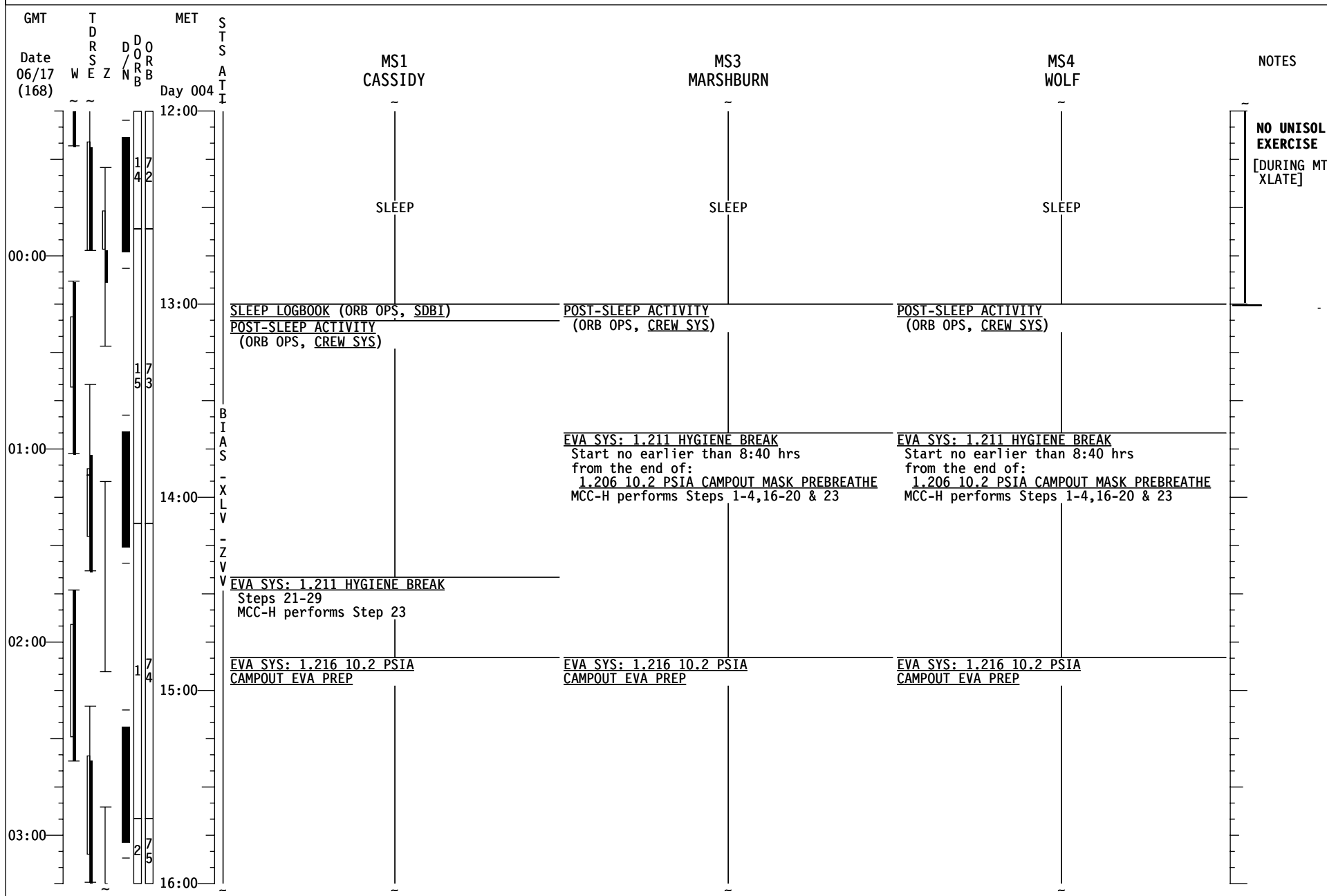
STS-127 FD (05)



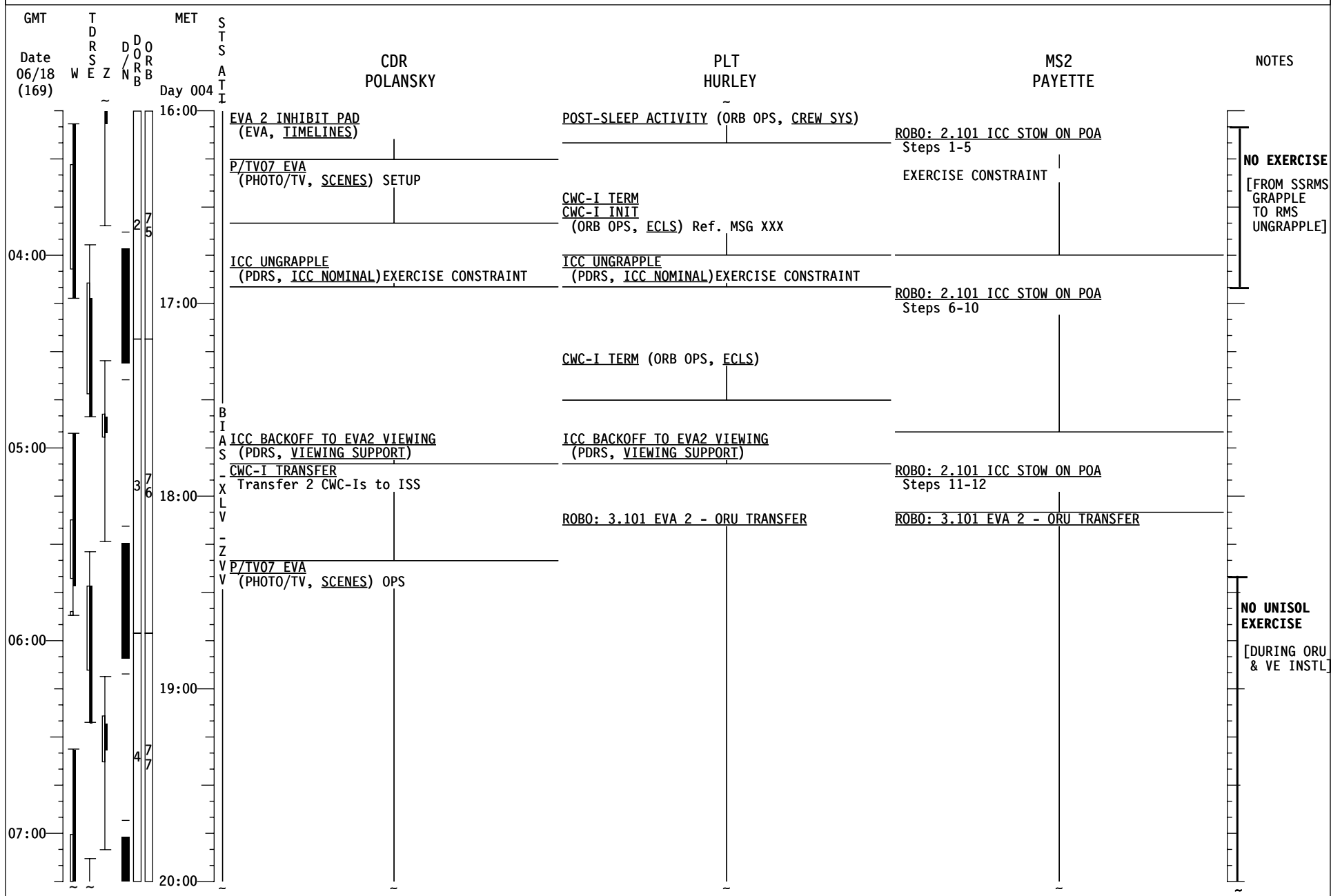
STS-127 FD (06)



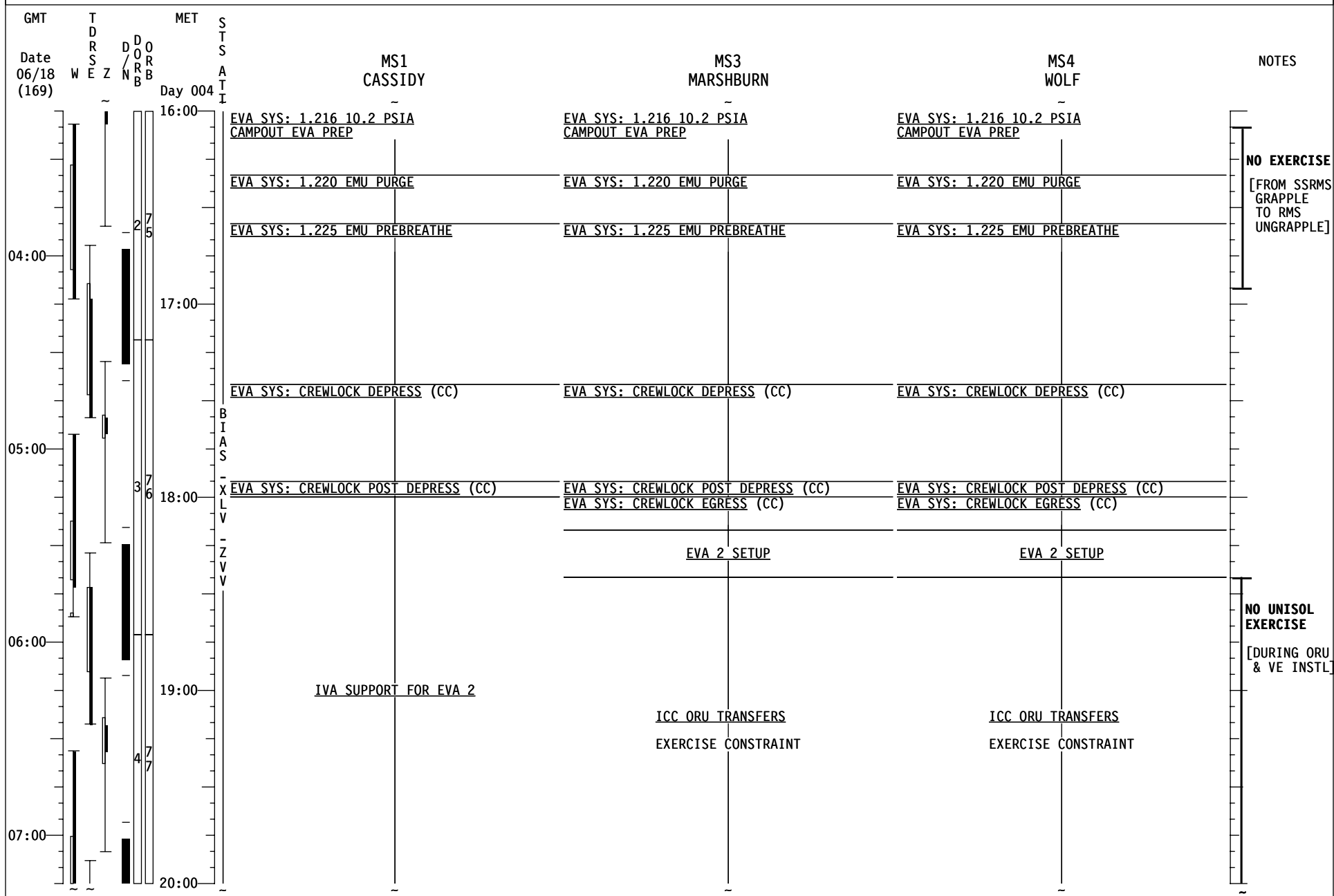
STS-127 FD (06)



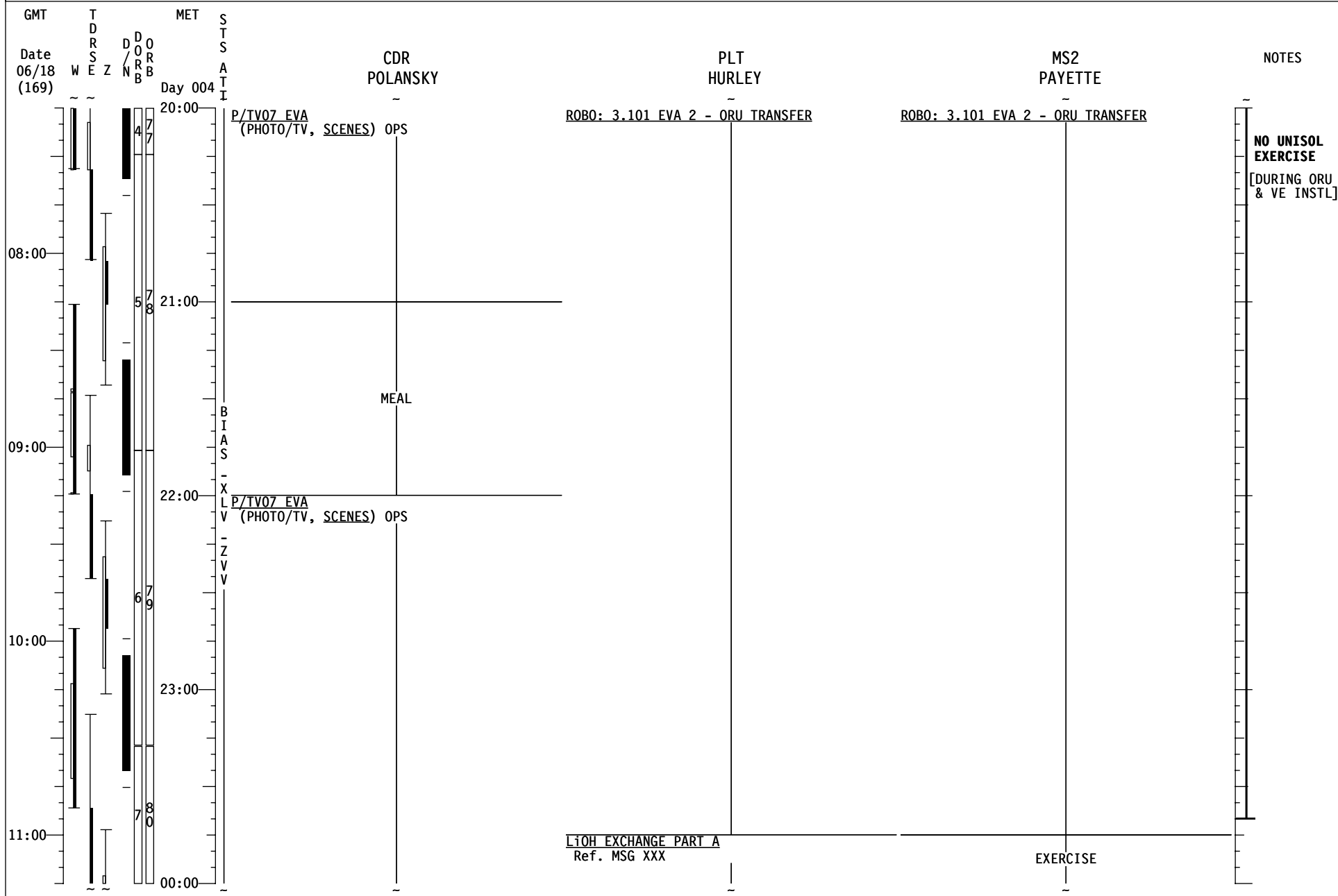
STS-127 FD (06)



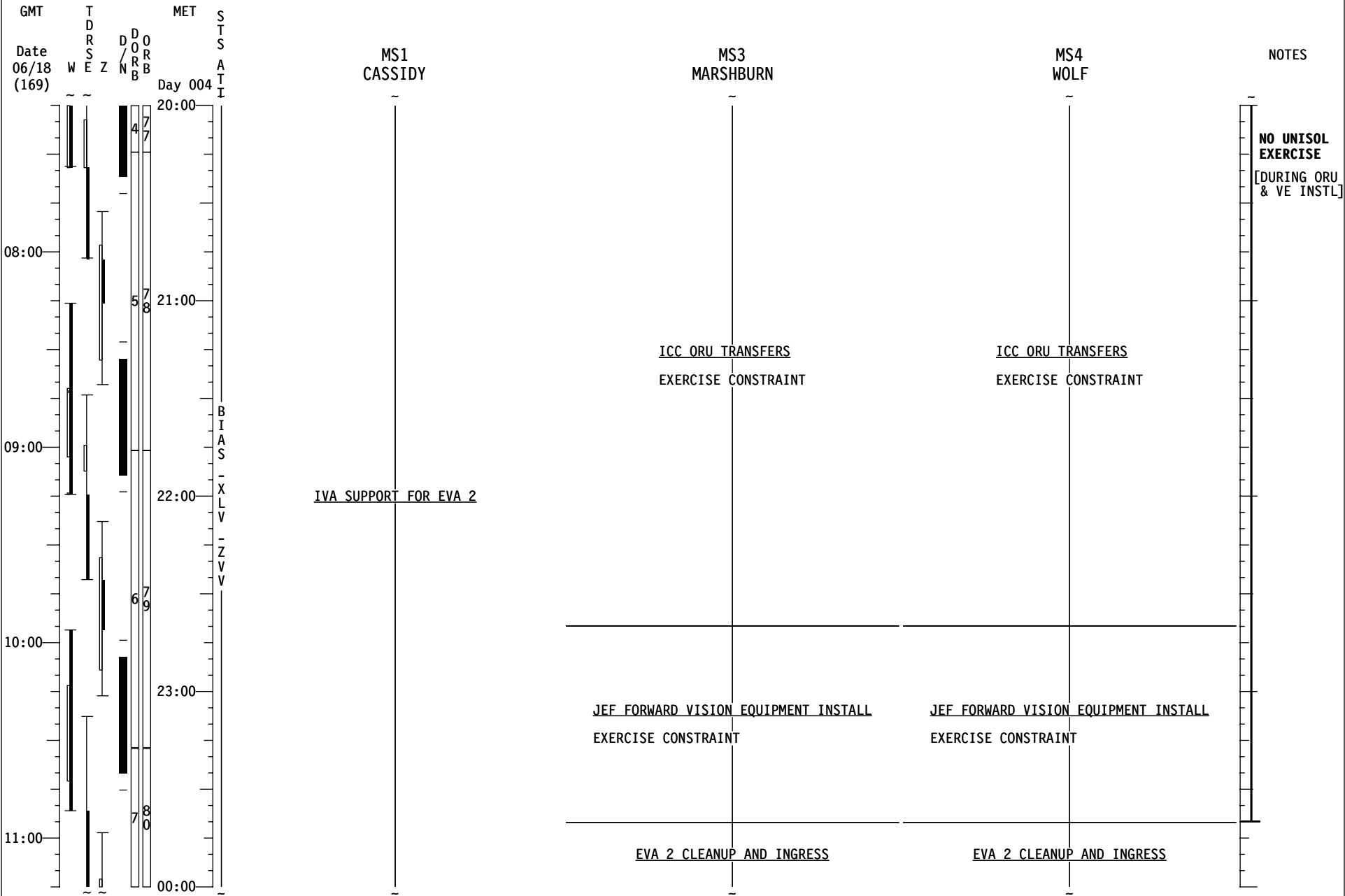
STS-127 FD (06)



STS-127 FD (06)



STS-127 FD (06)

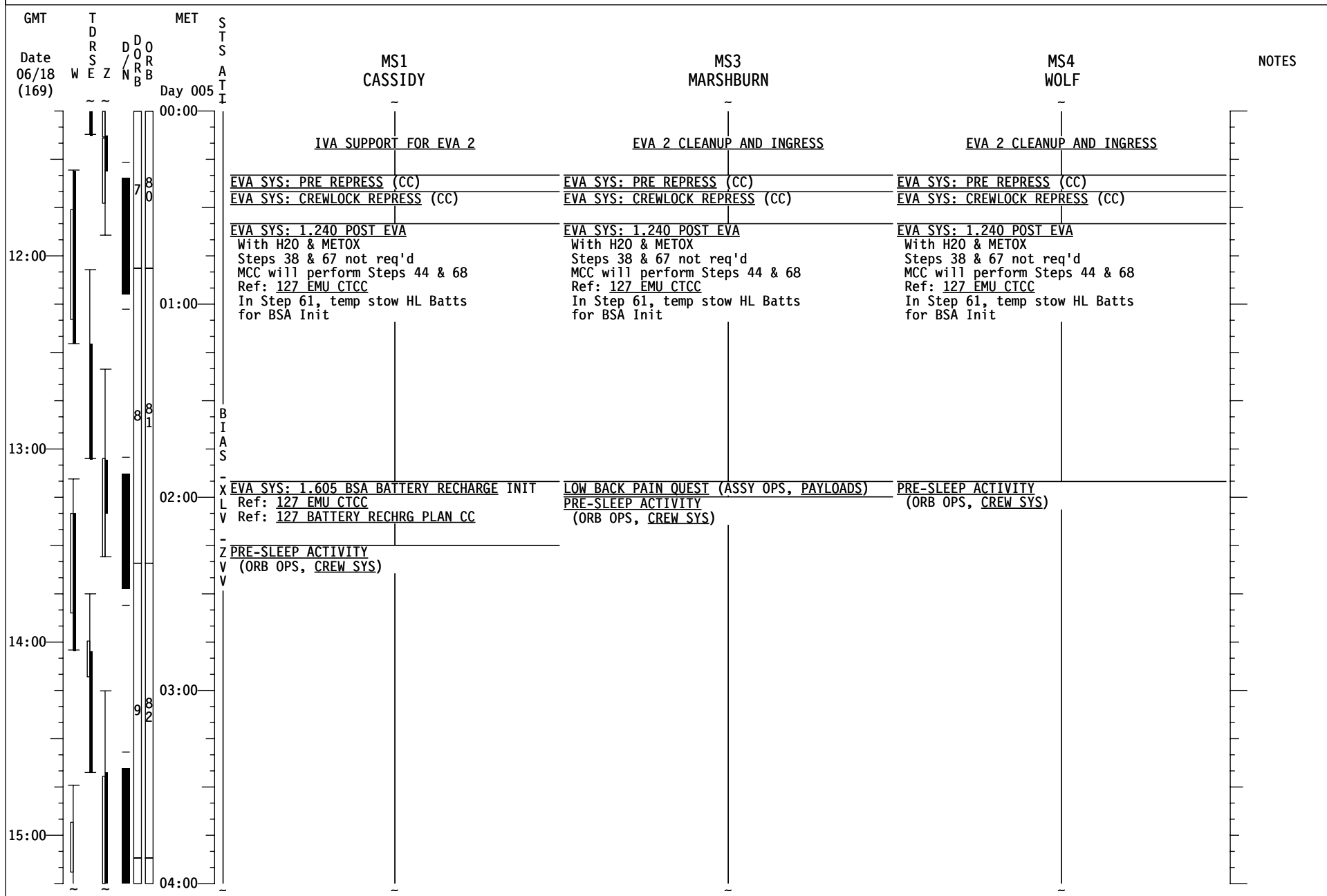


STS-127 FD (06)

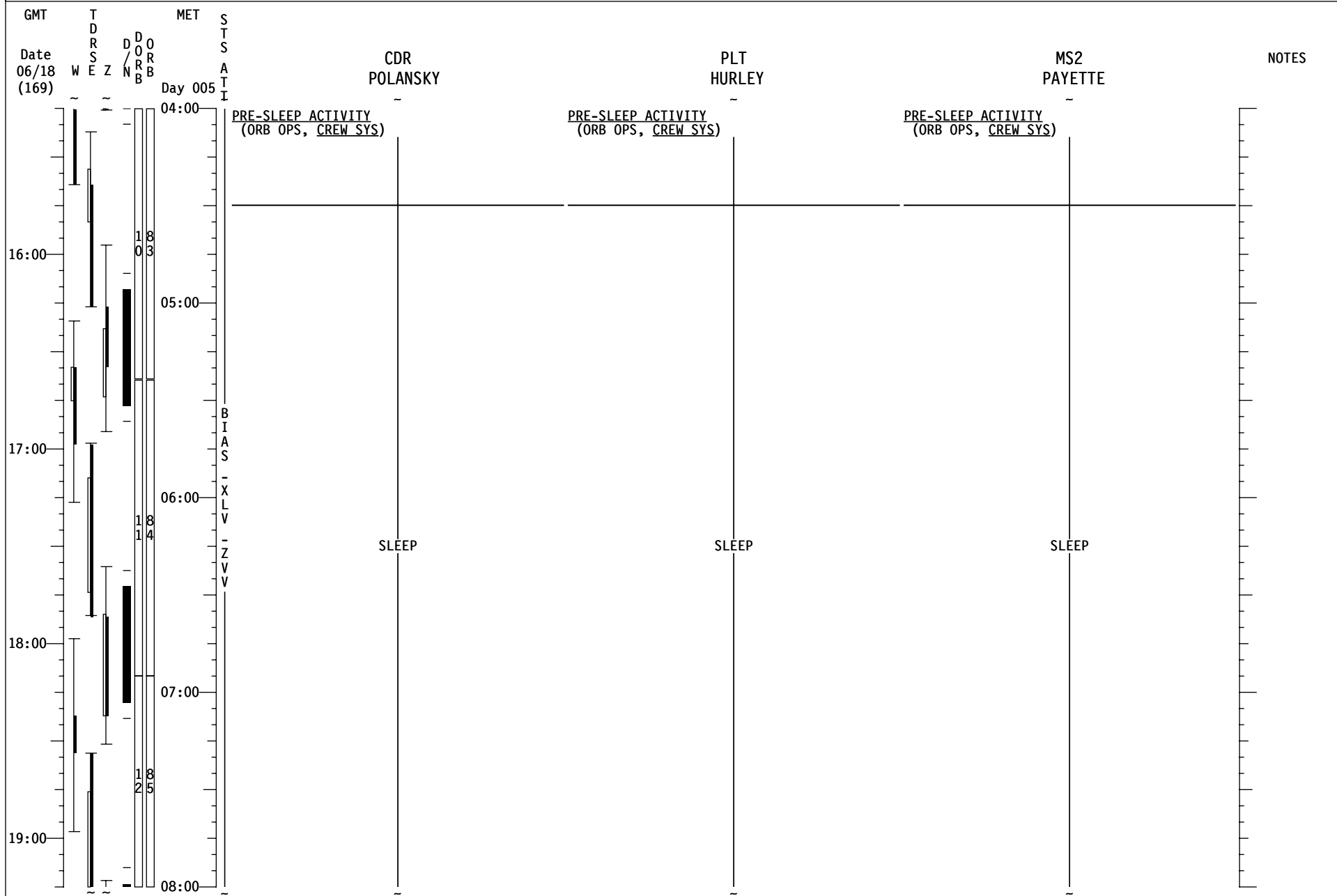
GMT	T D R S E Z W E Z	D O R B D O R B	MET Day 005	S T S A T I	CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
00:00					P/TV07 EVA (PHOTO/TV, SCENES) OPS	LiOH EXCHANGE PART A Ref. MSG XXX		
					IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)		EXERCISE	
12:00					LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)	EXERCISE		
					EXERCISE			
					TV (ILLUMINATOR OPS) (PHOTO/TV, CC) ILLUMINATORS ON - A,D		P/TV06 ROBOTICS OPERATIONS [A]	
					LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)		LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)	
					PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
13:00					PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
					PRIVATE MEDICAL CONFERENCE Perform via A/G 2			
					PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
14:00								
15:00								
04:00								

[A] KEEL 1 PWR(ICC) - ON
 √1 ILL PWR(ICC) - ON
 2 PWR(JLE) - ON
 √2 ILL PWR(JLE) - ON

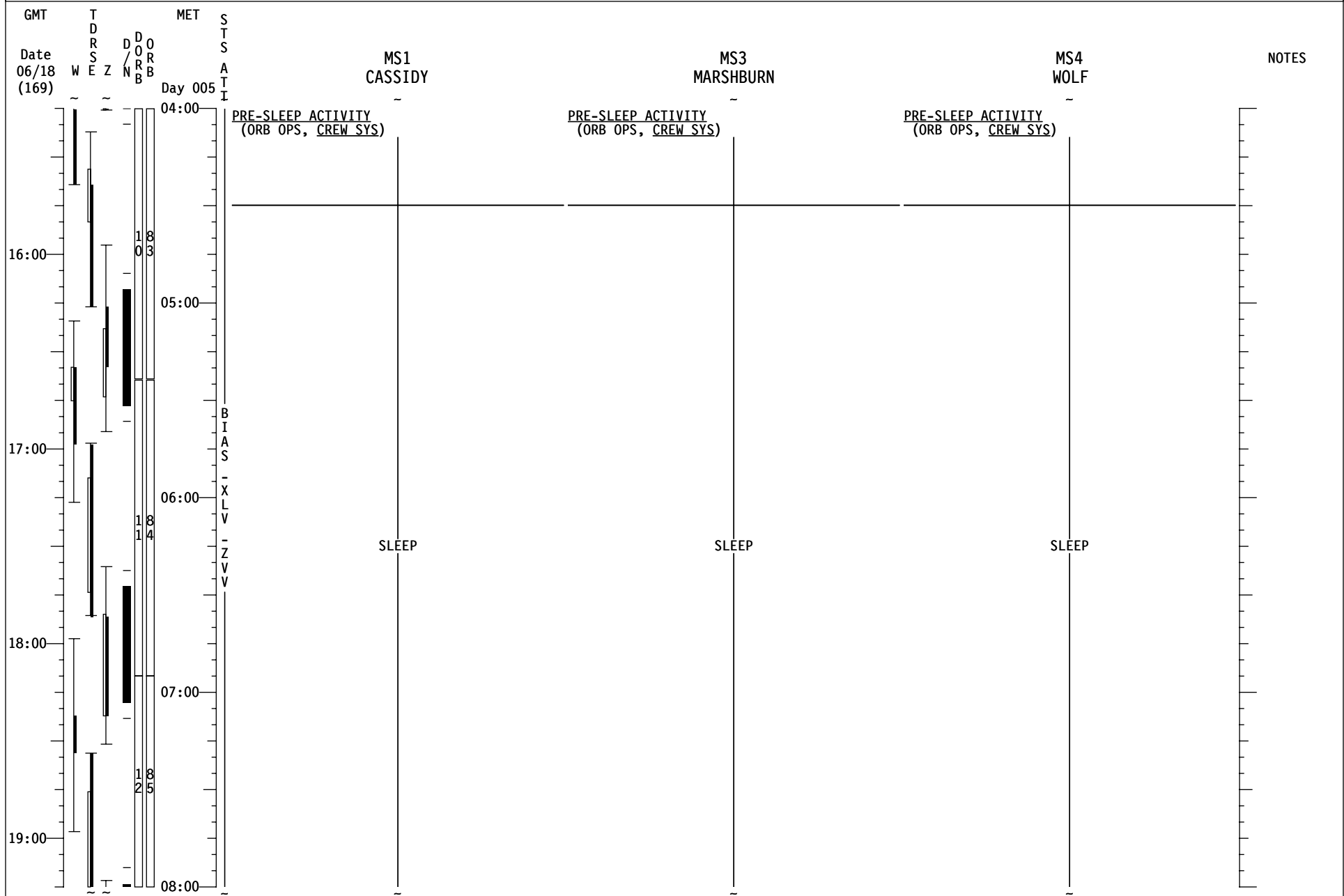
STS-127 FD (06)



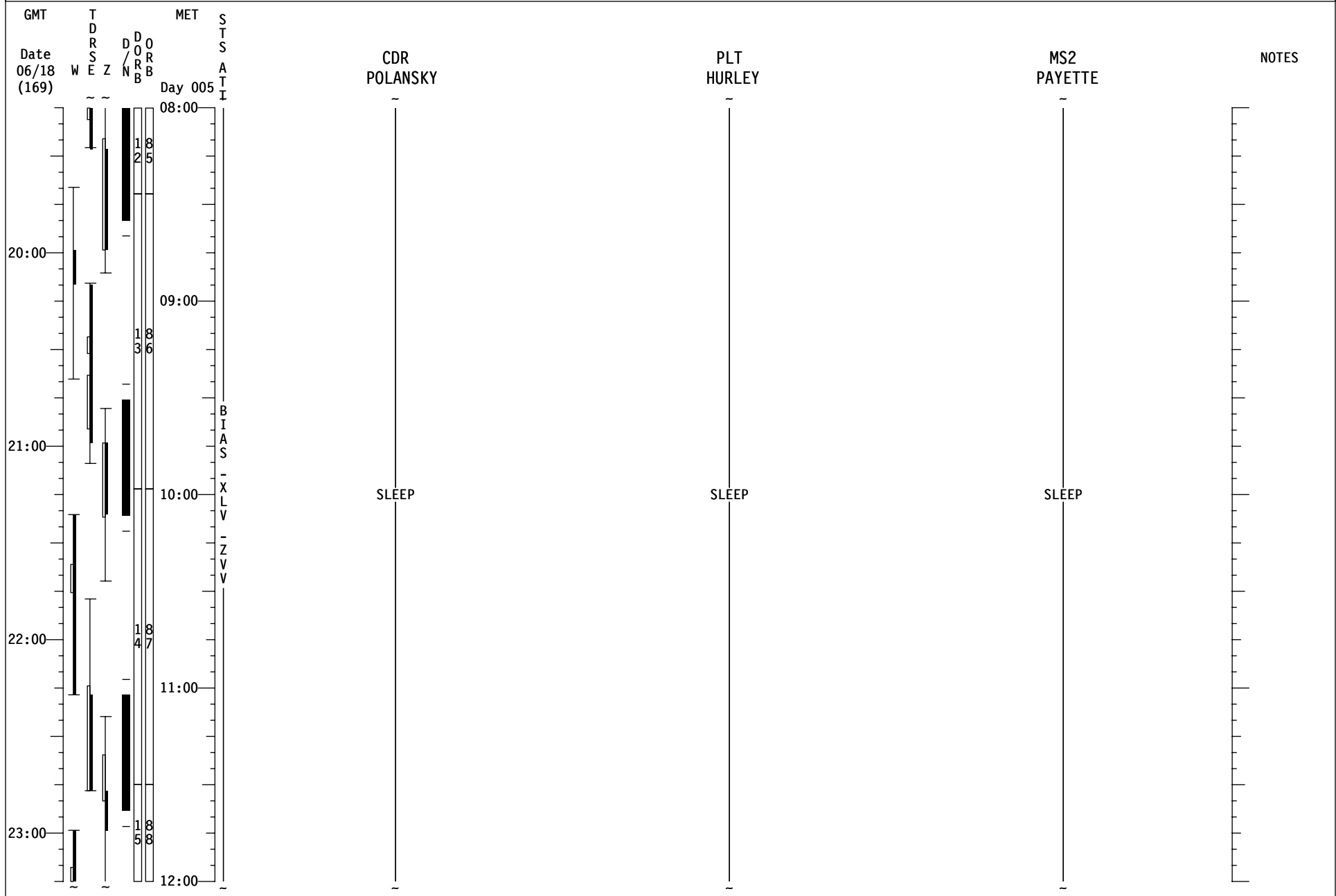
STS-127 FD (06)



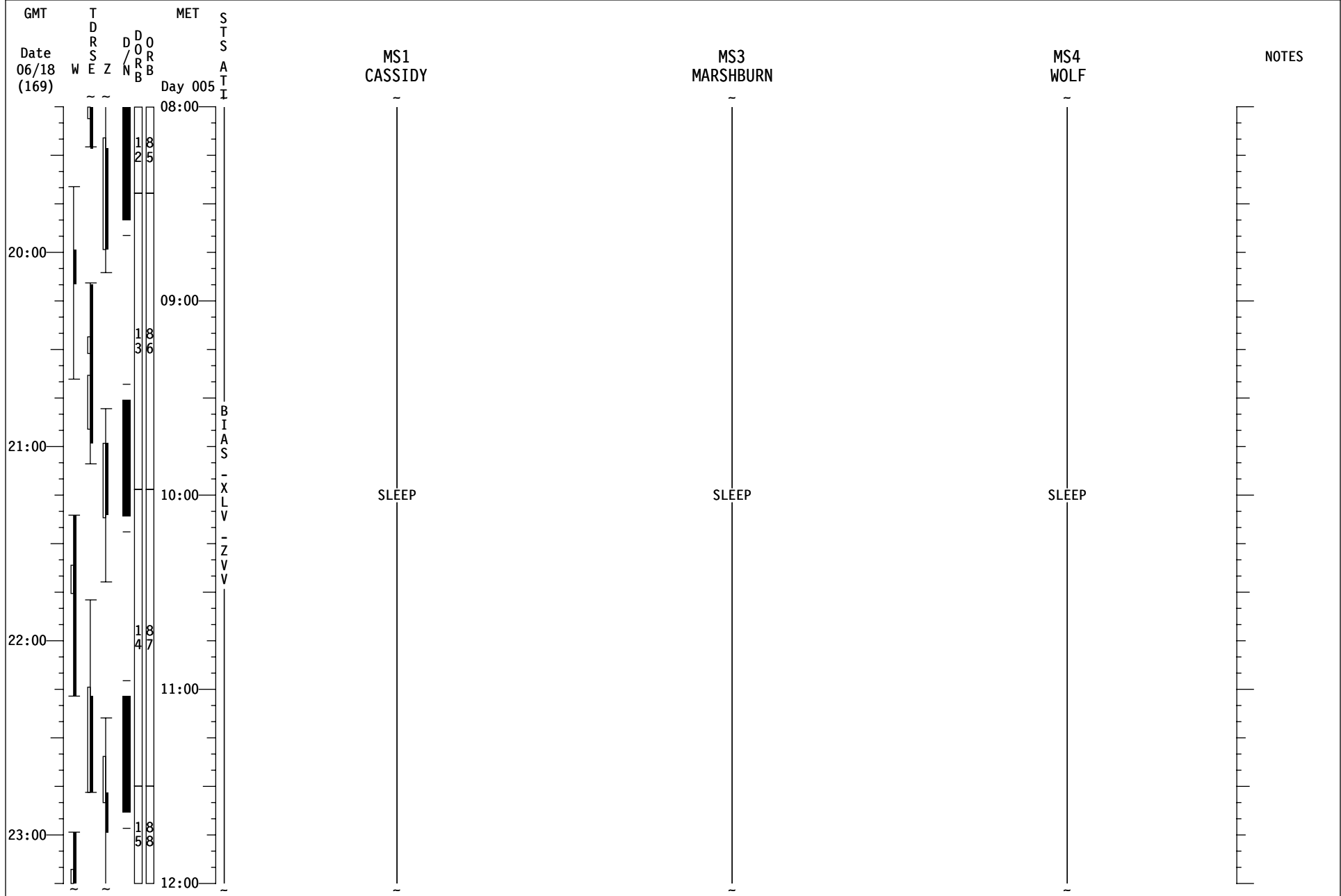
STS-127 FD (06)



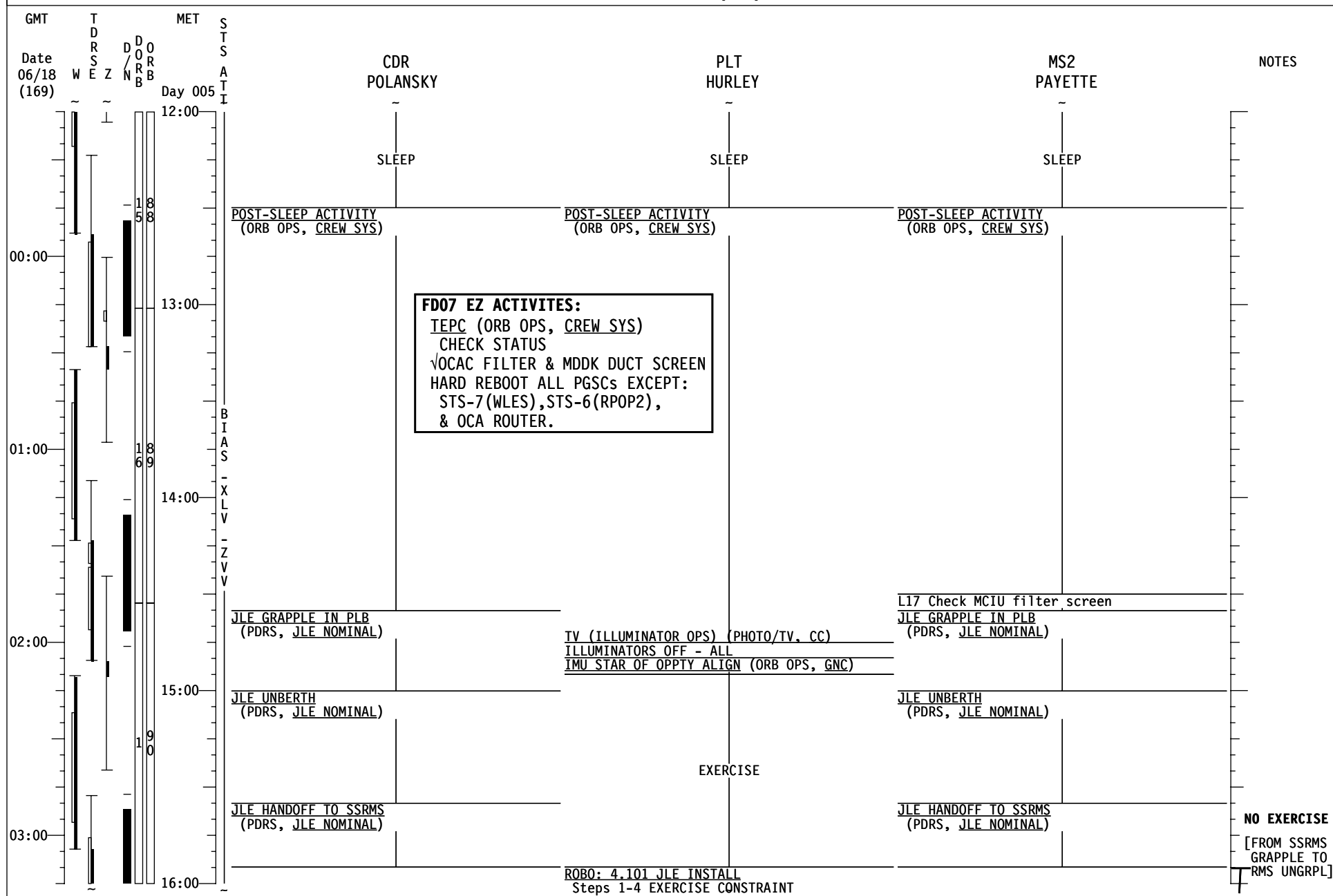
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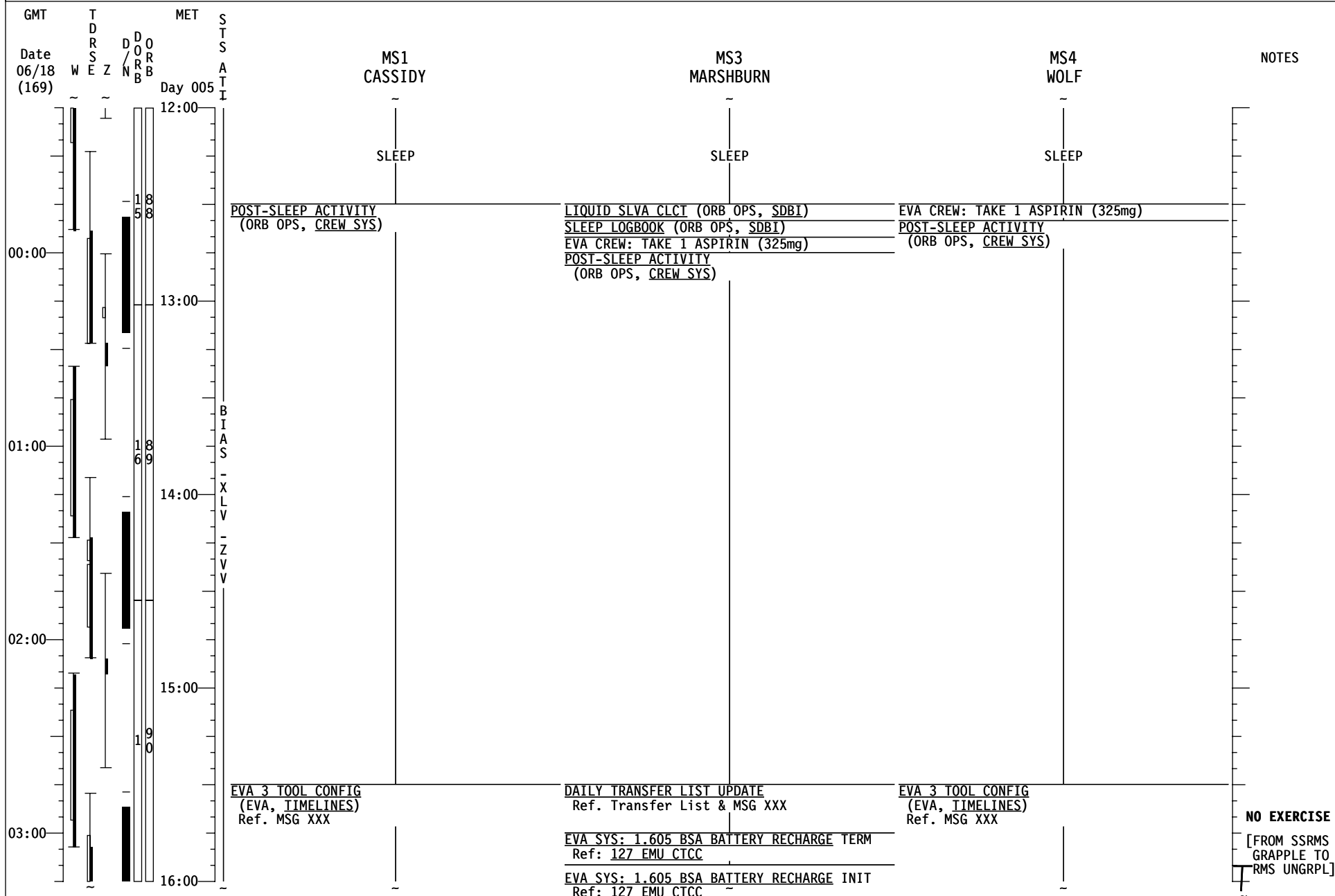
STS-127 FD (06)



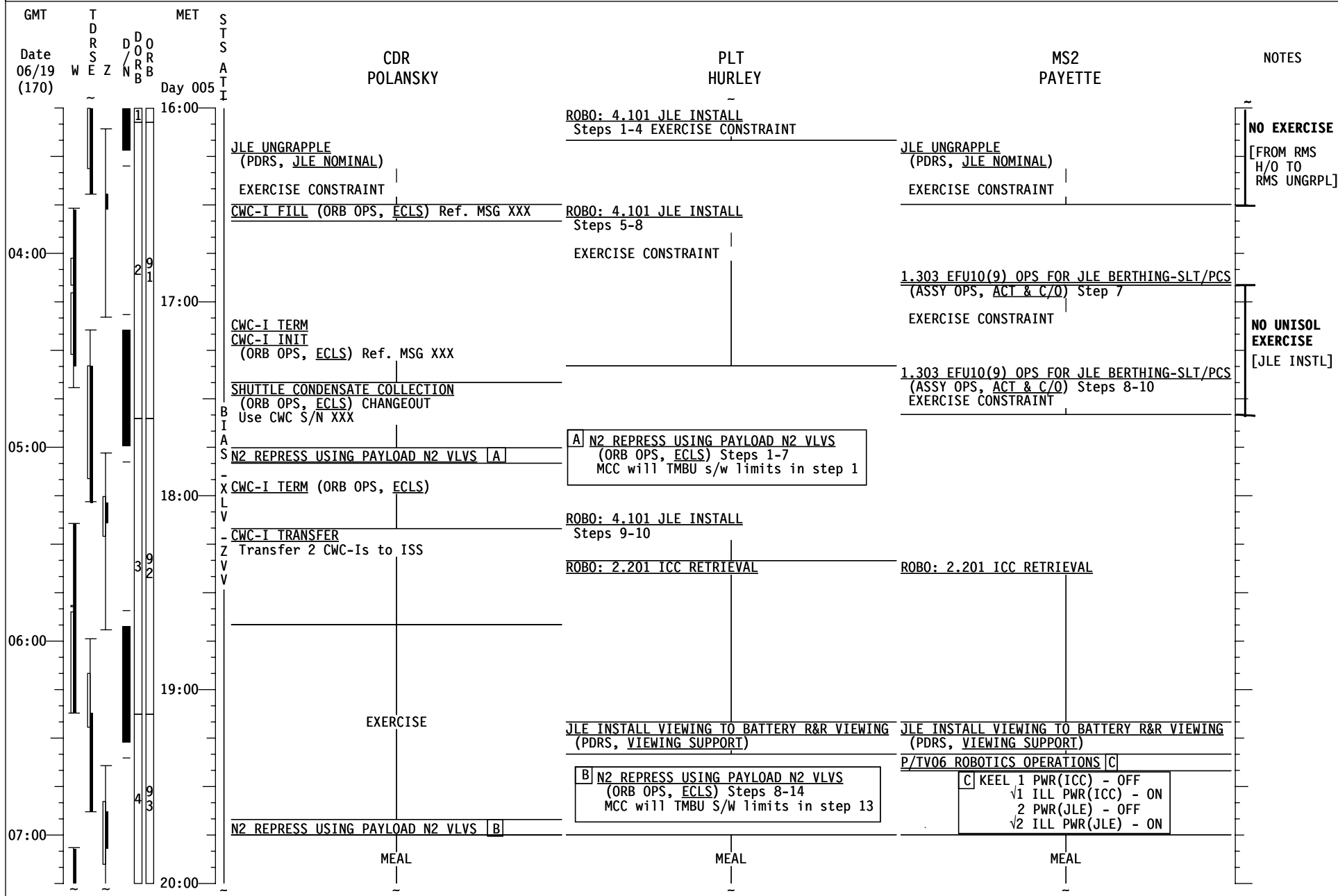
STS-127 FD (07)



STS-127 FD (07)



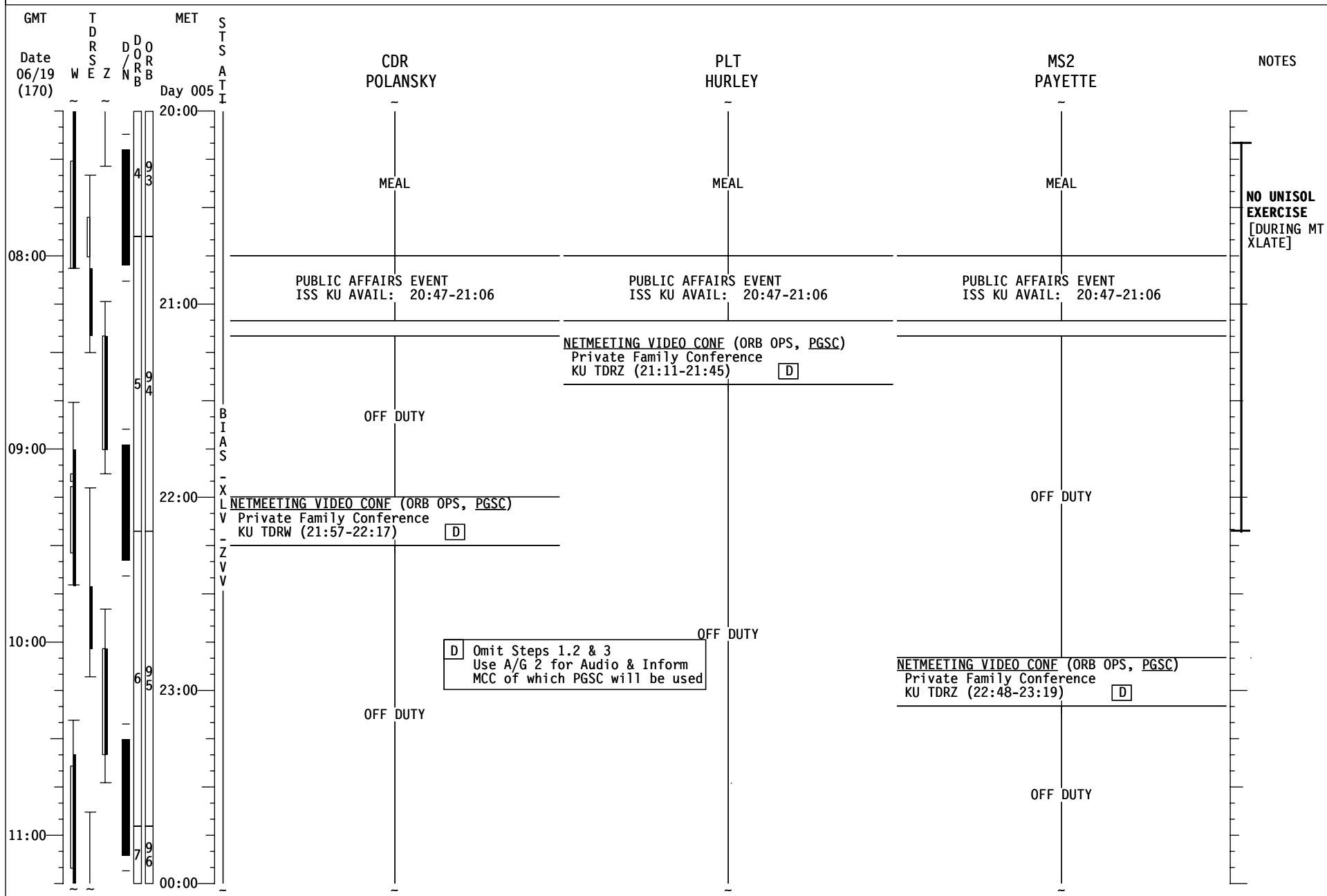
STS-127 FD (07)



STS-127 FD (07)

GMT	TDRSEZ	MET	SSTS	MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	NOTES
Date 06/19 (170)	W E Z	Day 005	1				
16:00				EVA 3 TOOL CONFIG (EVA, TIMELINES) Ref. MSG XXX	EVA SYS: 1.605 BSA BATTERY RECHARGE INIT Ref: 127 EMU CTCC Ref: 127 BATTERY RECHRG PLAN CC EVA SYS: 1.510 METOX REGENERATION TERM	EVA 3 TOOL CONFIG (EVA, TIMELINES) Ref. MSG XXX	NO EXERCISE [FROM RMS H/O TO RMS UNGRPL]
04:00			2		EVA 3 TOOL CONFIG (EVA, TIMELINES) Ref. MSG XXX		
17:00			3	EMU SWAP FOR EVA 3 (EVA, AIRLOCK CONFIG)	EMU SWAP FOR EVA 3 (EVA, AIRLOCK CONFIG)		NO UNISOL EXERCISE [JLE INSTL]
05:00			4	EVA SYS: 1.515 EMU METOX/LIOH/BATTERY REPLACEMENT Install LIOH Canisters Ref: 127 EMU CTCC	EVA SYS: 1.515 EMU METOX/LIOH/BATTERY REPLACEMENT Install LIOH Canisters Ref: 127 EMU CTCC		
18:00			5	EVA SYS: 1.307 REBA INSTL/RMV Install in EMU 3018 Ref: 127 EMU CTCC	EVA SYS: 1.307 REBA INSTL/RMV Install in EMU 3018 Ref: 127 EMU CTCC	EXERCISE	
			6	EVA SYS: 1.403 REBA POWERED HARDWARE C/O Perform on EMU 3018	EVA SYS: 1.403 REBA POWERED HARDWARE C/O Perform on EMU 3018		
06:00			7	EVA SYS: 1.305 EQUIPMENT LK PREP Steps 1-3 not req'd Ref: 127 EMU CTCC	EXERCISE	EVA SYS: 1.305 EQUIPMENT LK PREP Steps 1-3 not req'd Ref: 127 EMU CTCC	
19:00			8		TRANSFER OPS Ref. Transfer List & MSG XXX	TRANSFER OPS Ref. Transfer List & MSG XXX	
07:00			9	EXERCISE			
20:00			10		TRANSFER BRIEF Call down status to MCC	MEAL	

STS-127 FD (07)

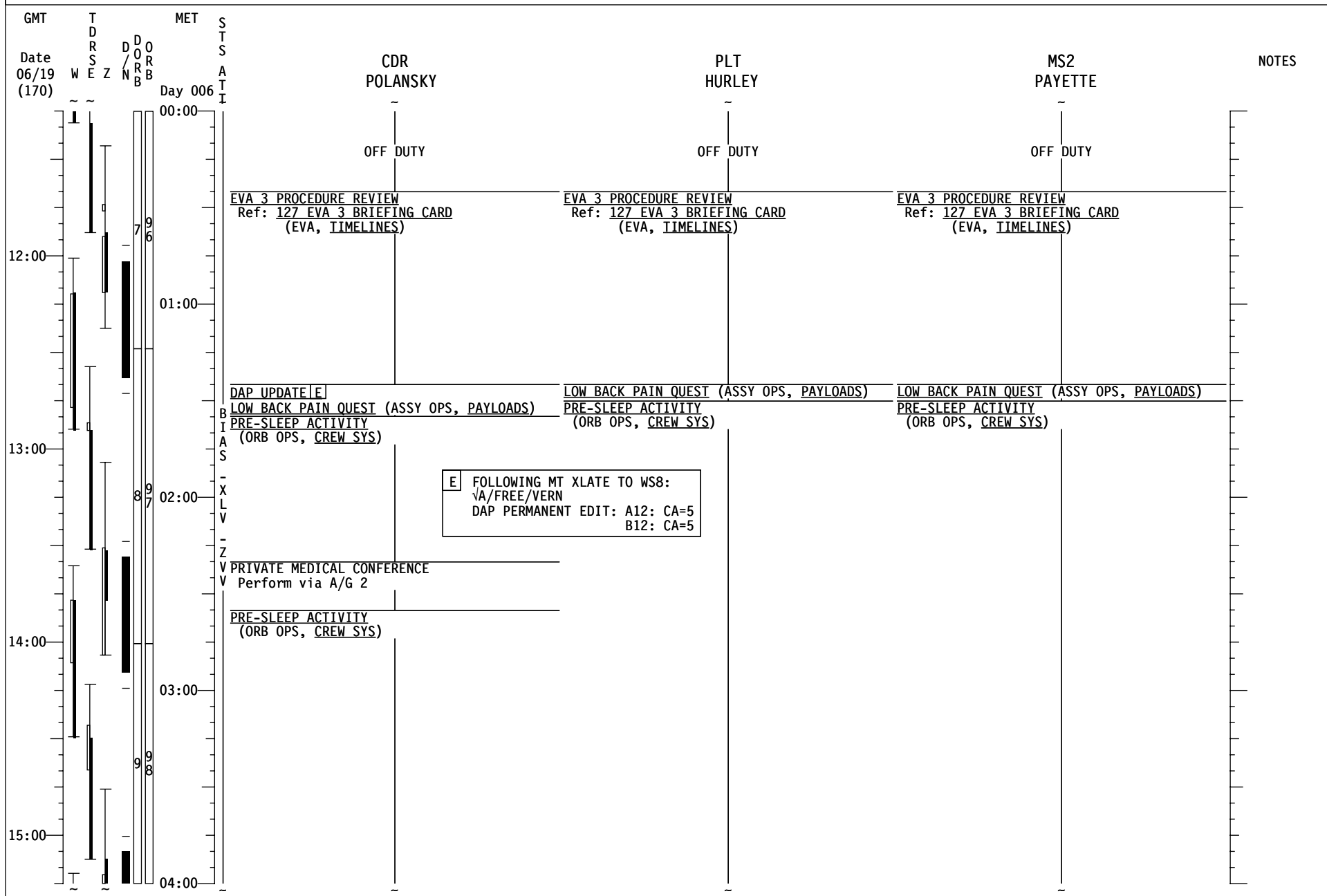


D Omit Steps 1.2 & 3
Use A/G 2 for Audio & Inform
MCC of which PGSC will be used

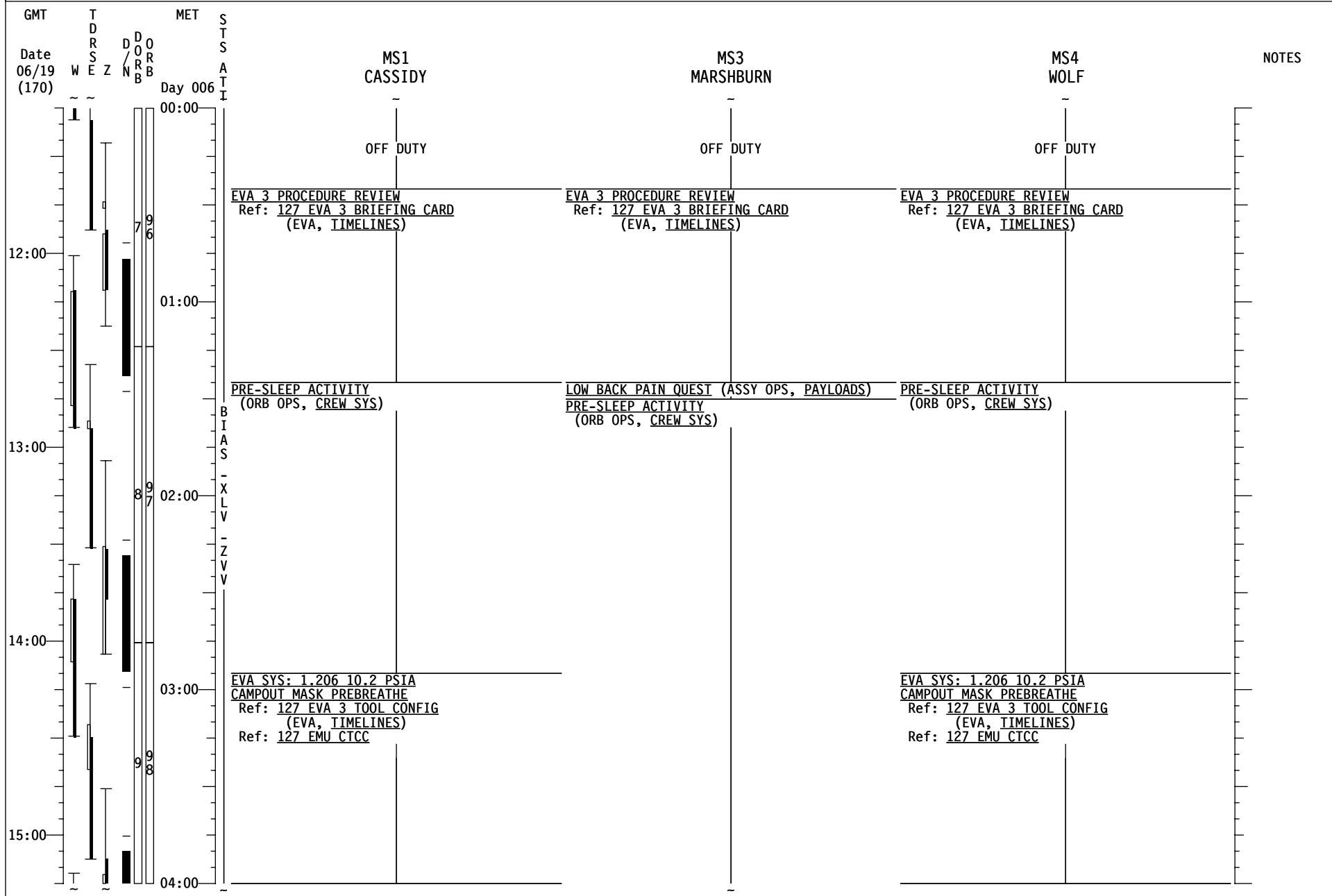
STS-127 FD (07)

GMT	TDRZ	MET	STS	MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	NOTES
Date 06/19 (170)	W E Z	Day 005	ST I	EXERCISE	TRANSFER BRIEF Call down status to MCC		
08:00		20:00		MEAL	MEAL	MEAL	NO UNISOL EXERCISE [DURING MT XLATE]
		21:00				PUBLIC AFFAIRS EVENT ISS KU AVAIL: 20:47-21:06	
09:00		22:00	B I A S	OFF DUTY	OFF DUTY	OFF DUTY	
10:00		23:00	X L V				
			Z V V				
					D Omit Steps 1.2 & 3 Use A/G 2 for Audio & Inform MCC of which PGSC will be used		
					NETMEETING VIDEO CONF (ORB OPS, PGSC) Private Family Conference KU TDRZ (22:48-23:19) D		
				NETMEETING VIDEO CONF (ORB OPS, PGSC) Private Family Conference KU TDRW (23:24-23:55) D	OFF DUTY		
11:00		00:00		OFF DUTY		NETMEETING VIDEO CONF (ORB OPS, PGSC) Private Family Conference KU TDRW (23:24-23:55) D	
						OFF DUTY	

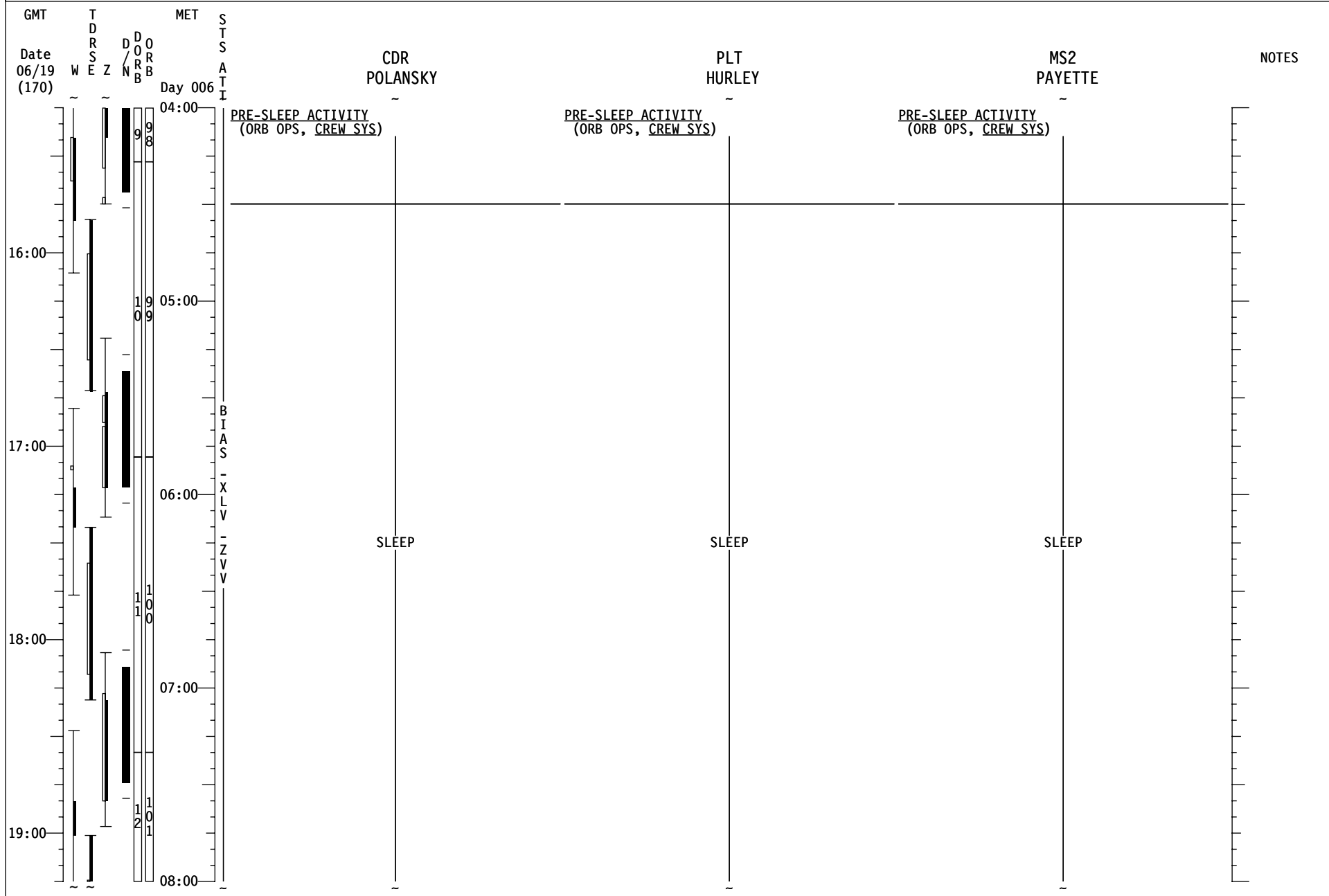
STS-127 FD (07)



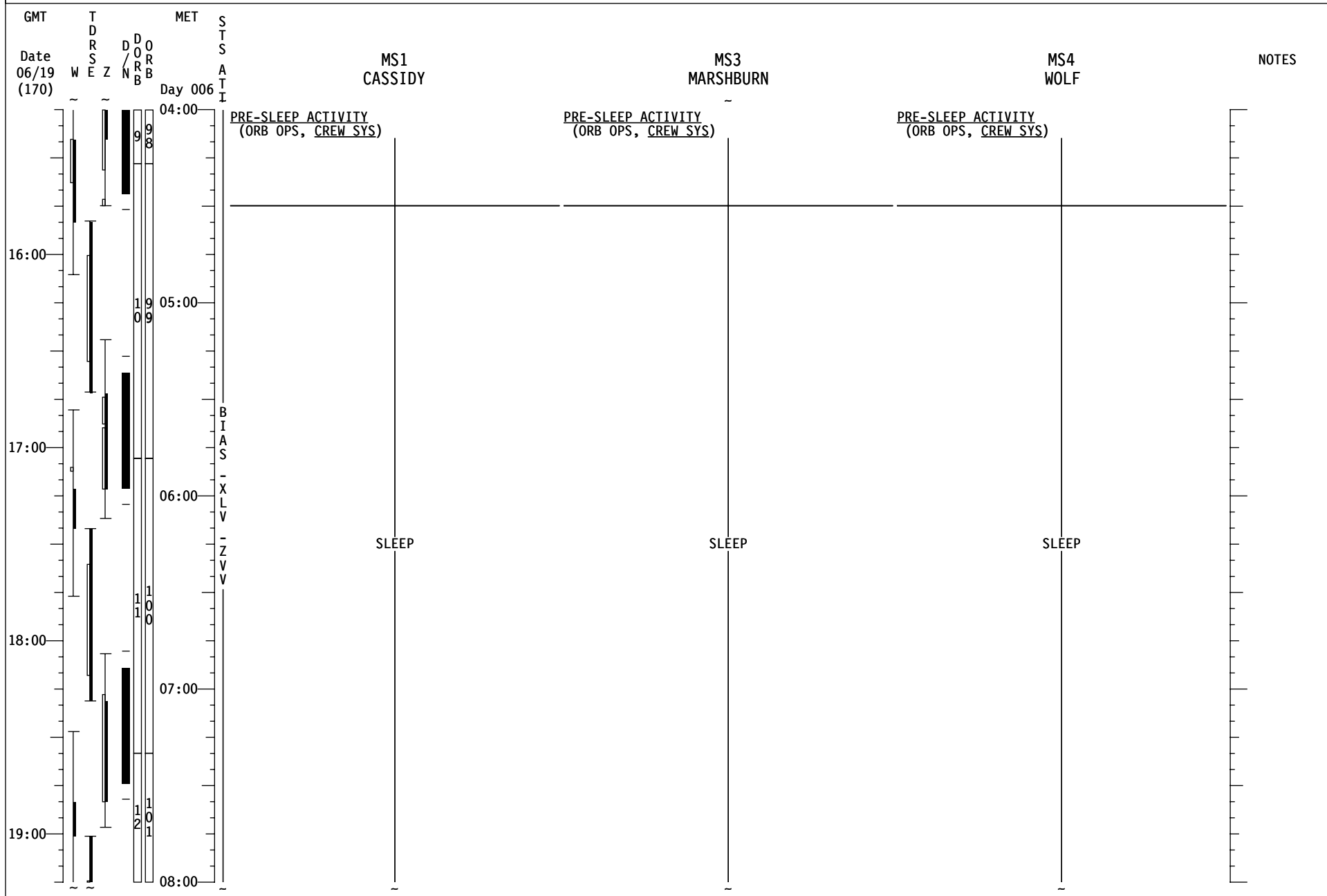
STS-127 FD (07)



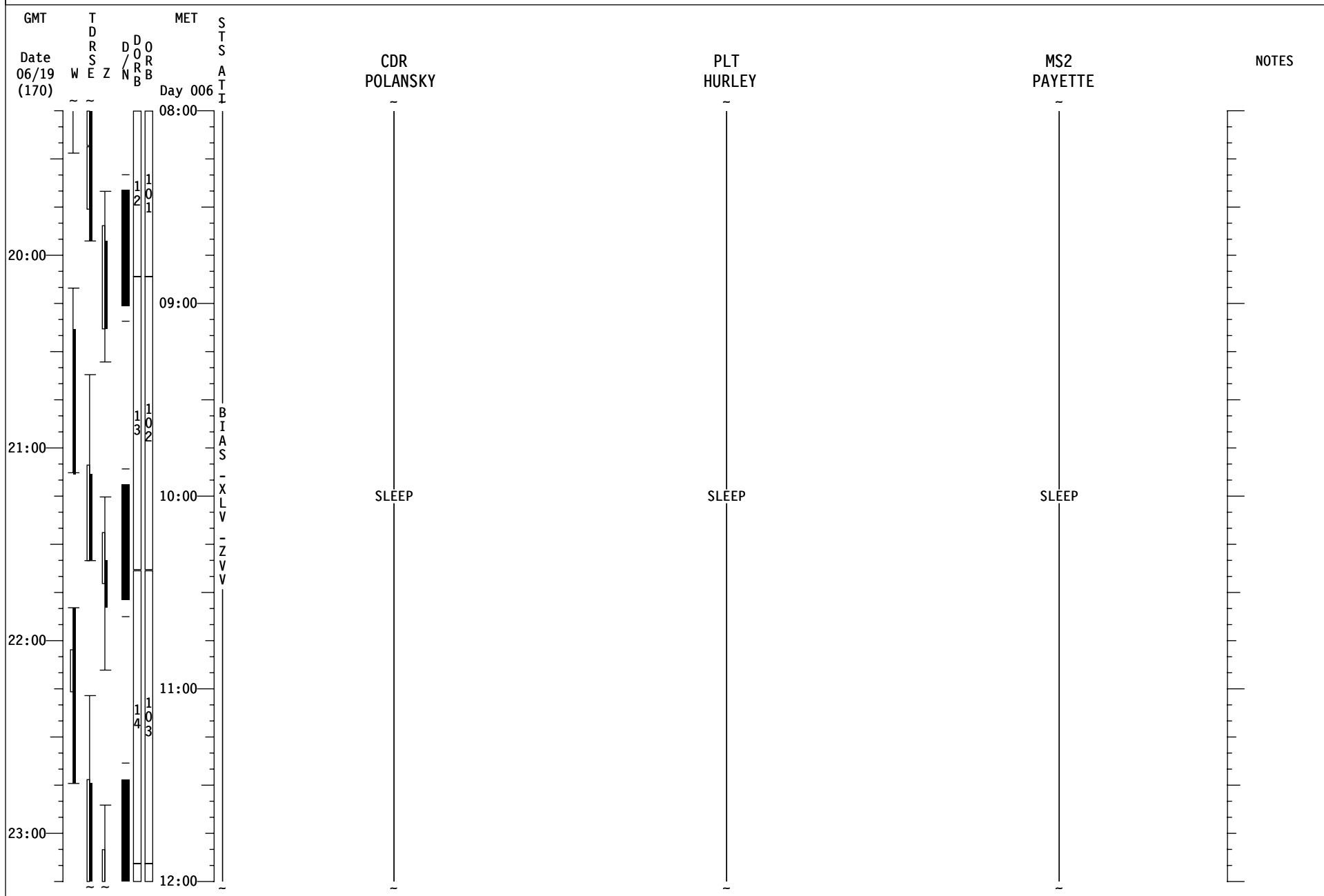
STS-127 FD (07)



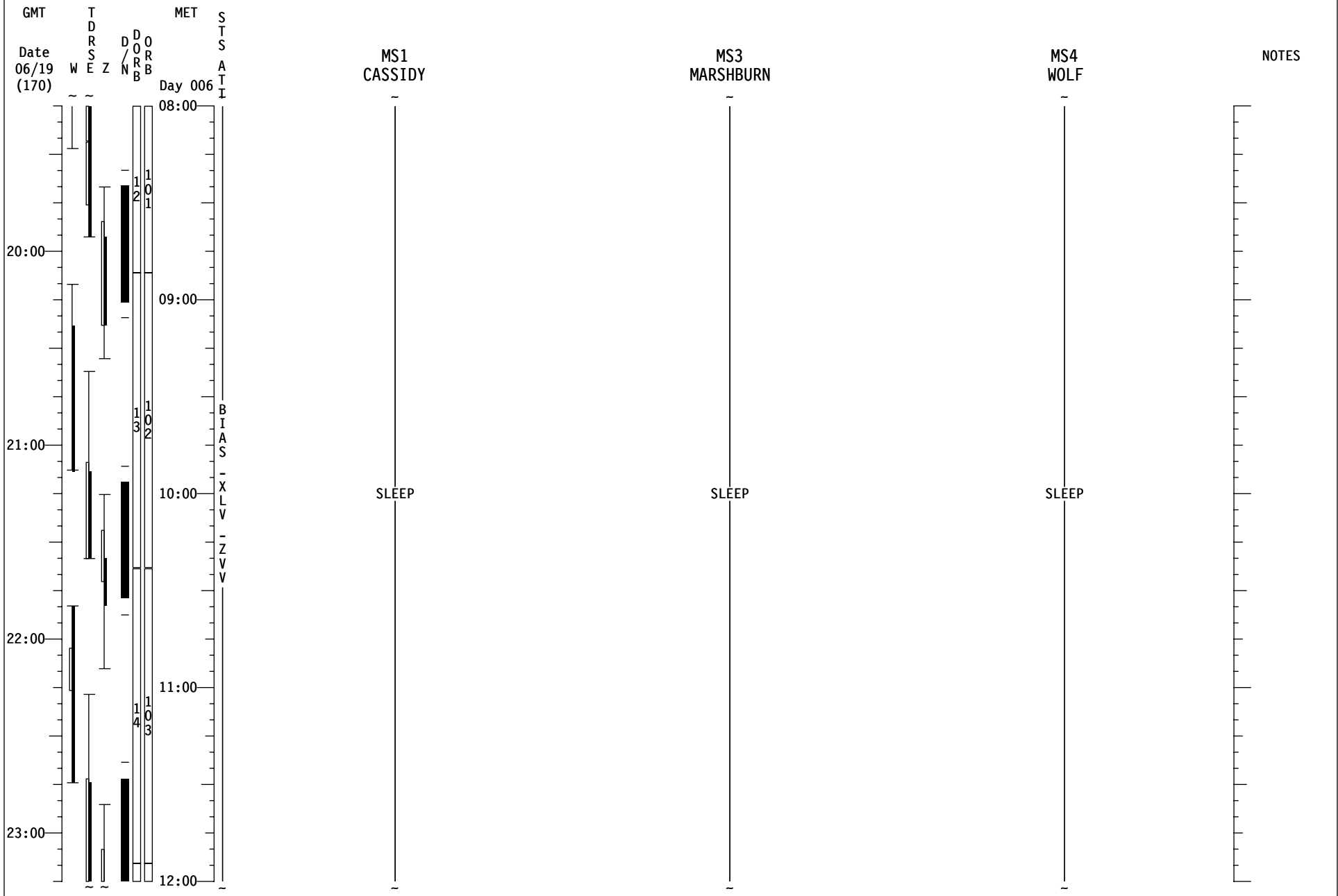
STS-127 FD (07)



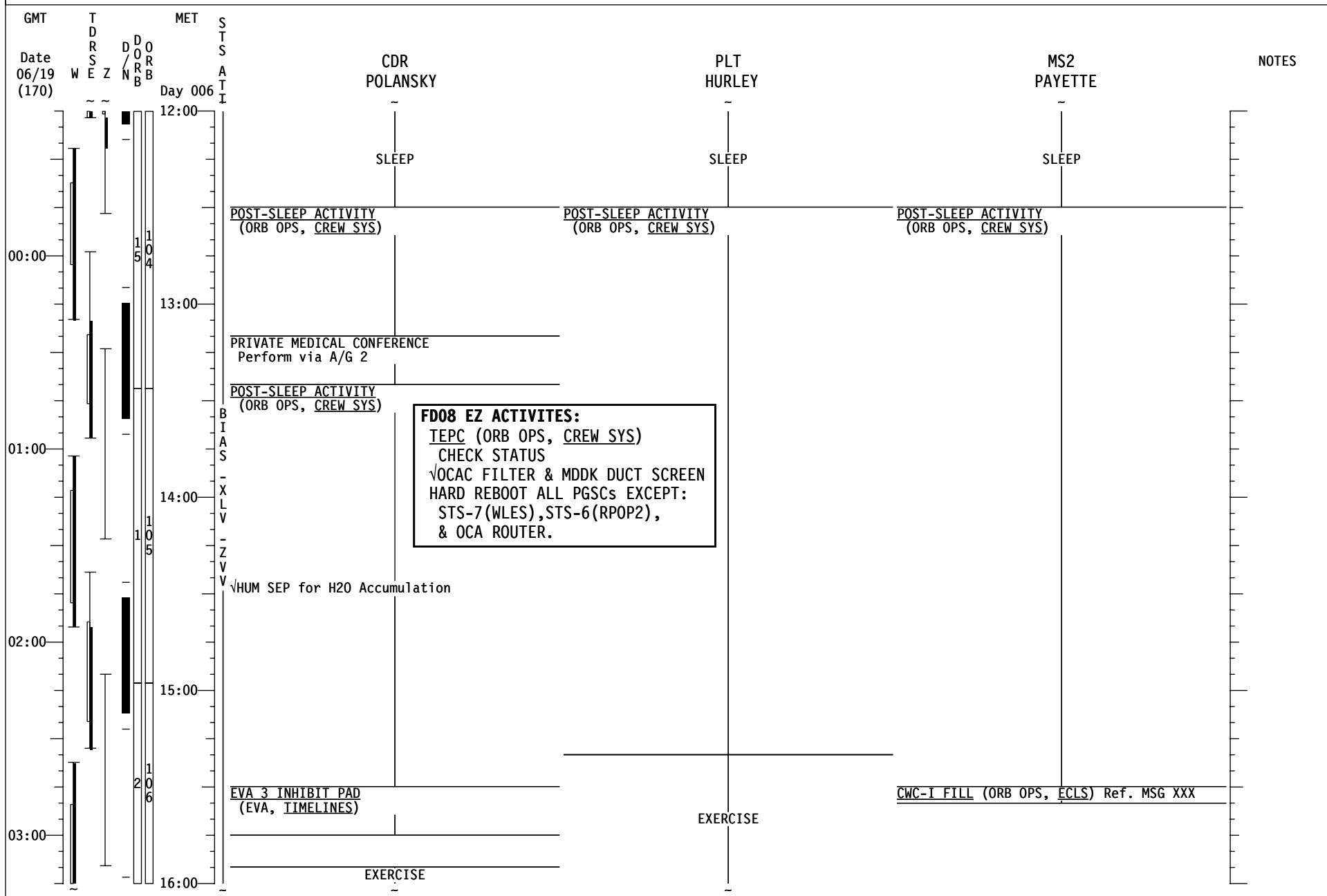
STS-127 FD (07)



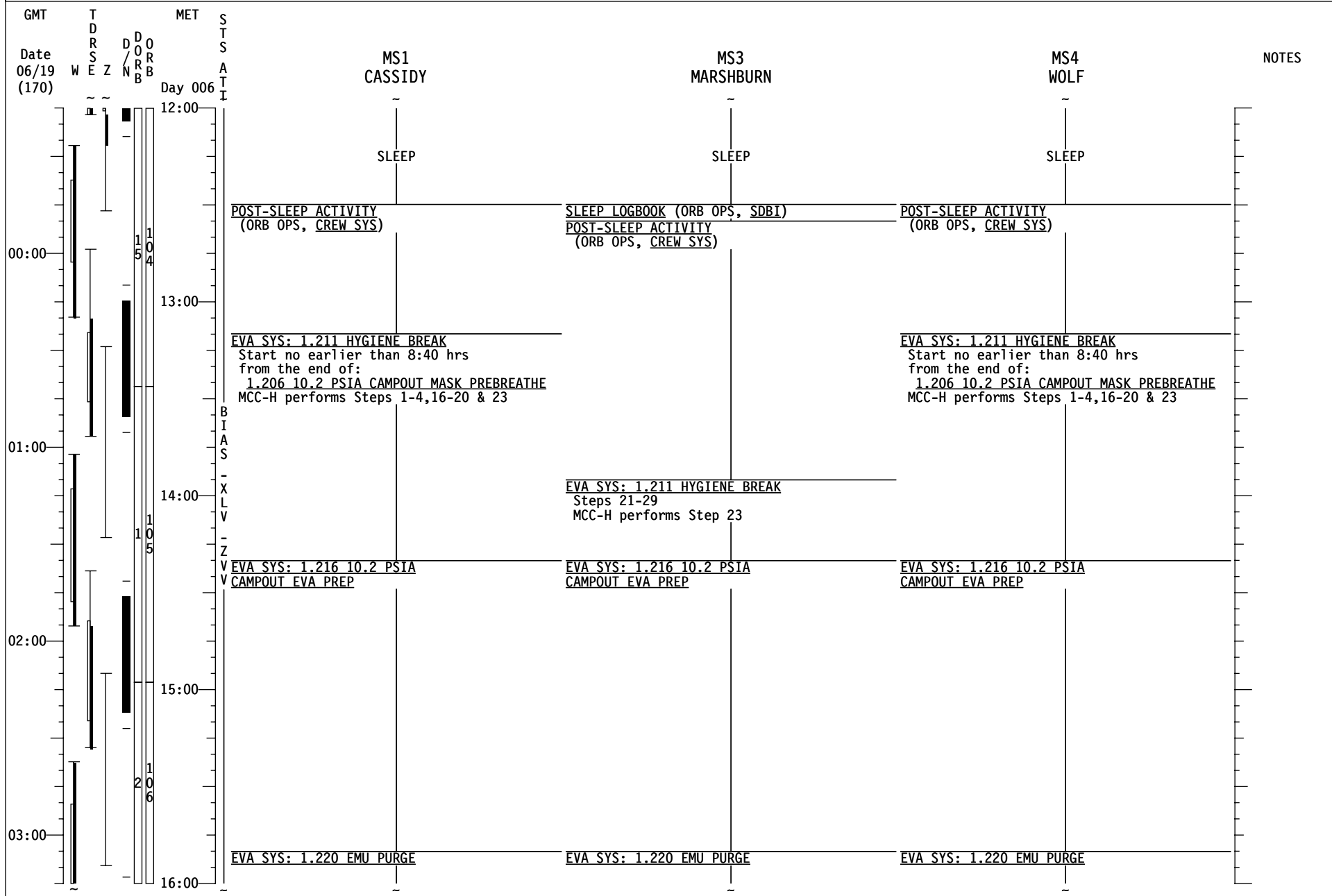
STS-127 FD (07)



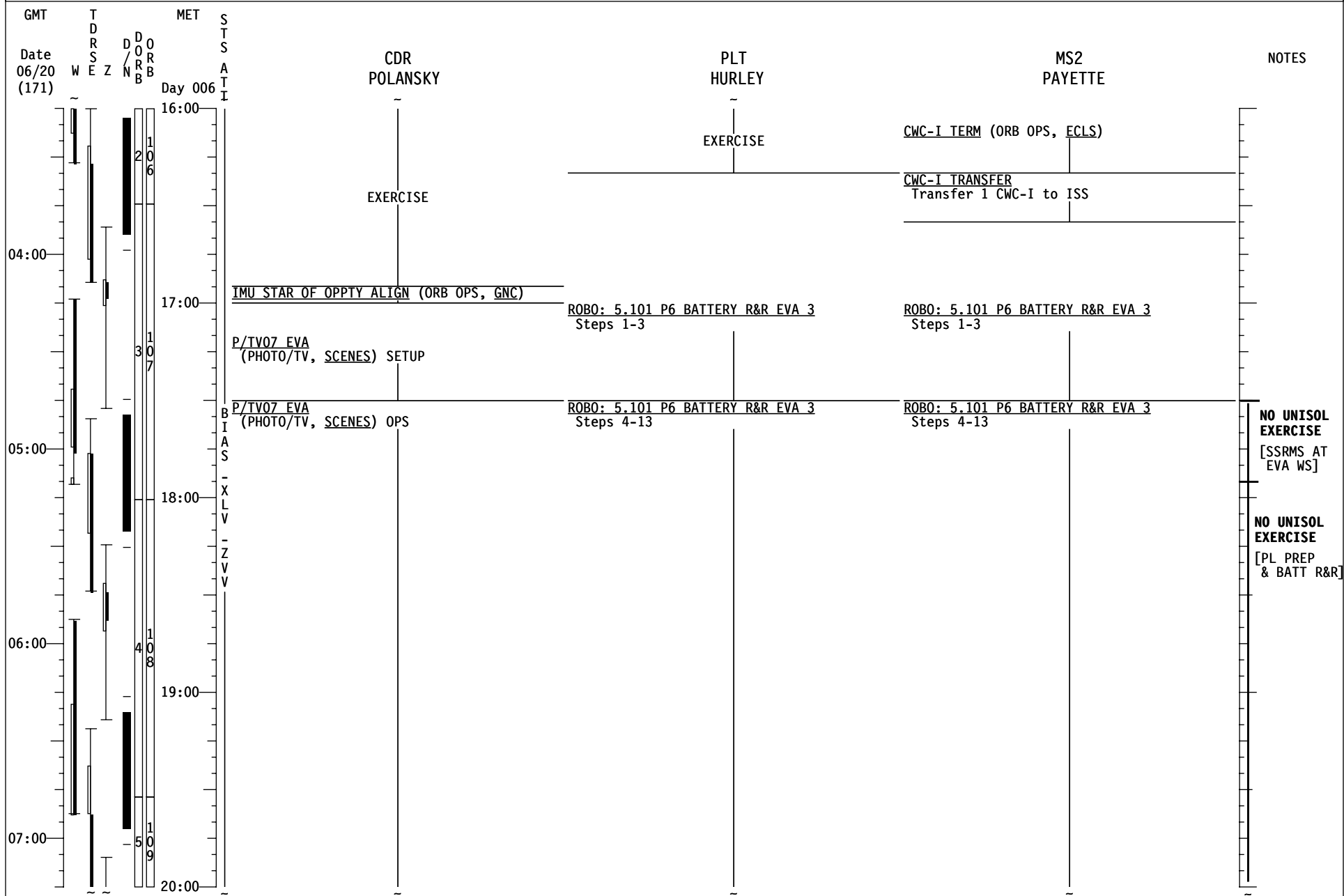
STS-127 FD (08)



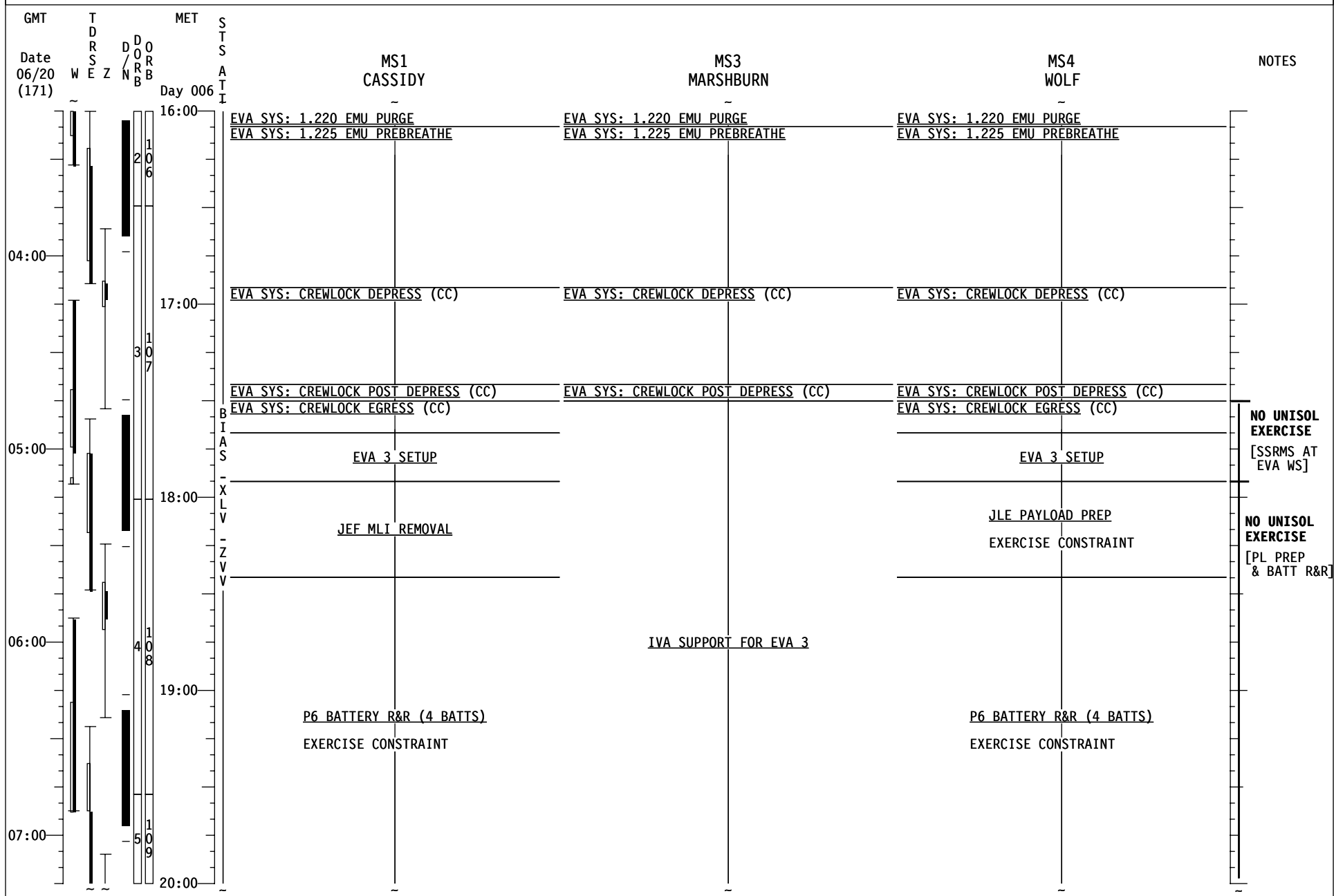
STS-127 FD (08)



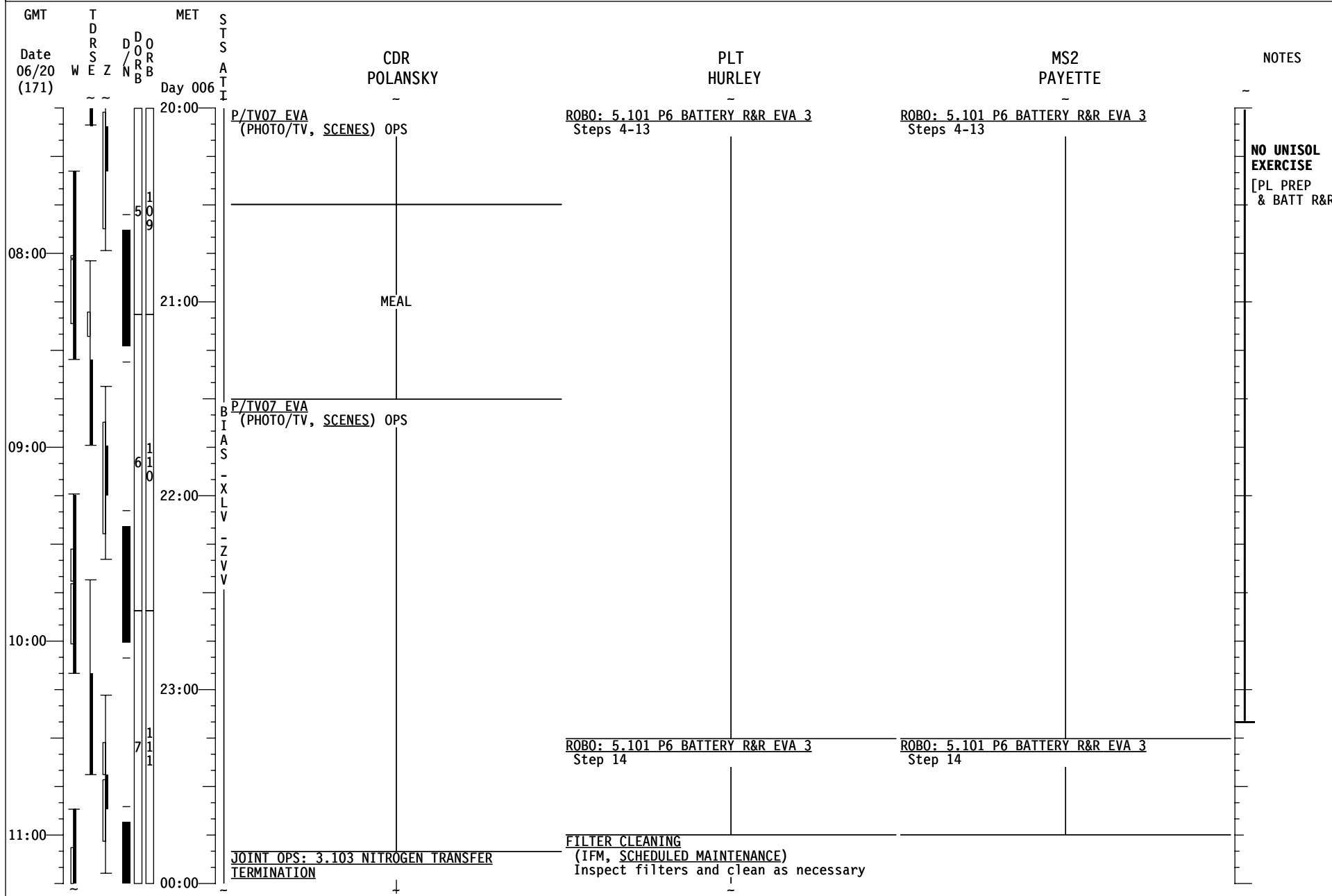
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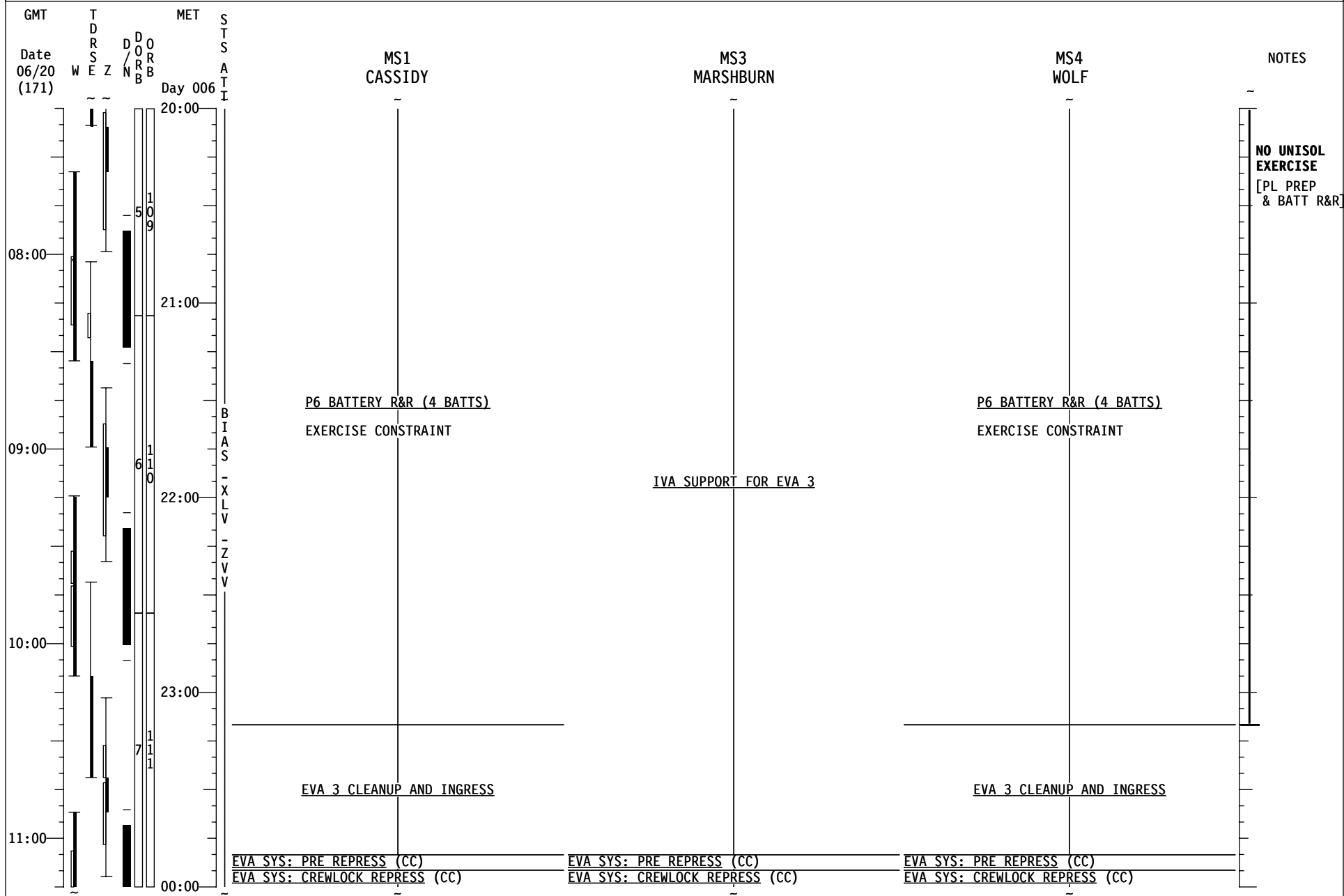
STS-127 FD (08)



STS-127 FD (08)



STS-127 FD (08)

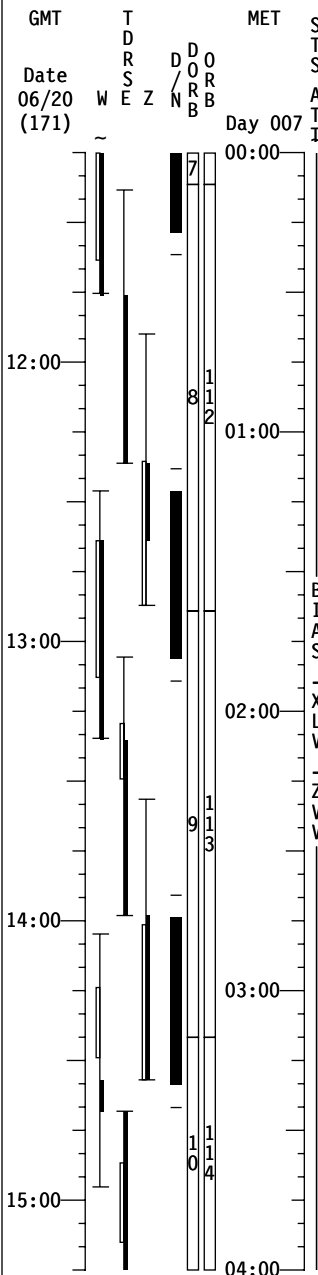


STS-127 FD (08)

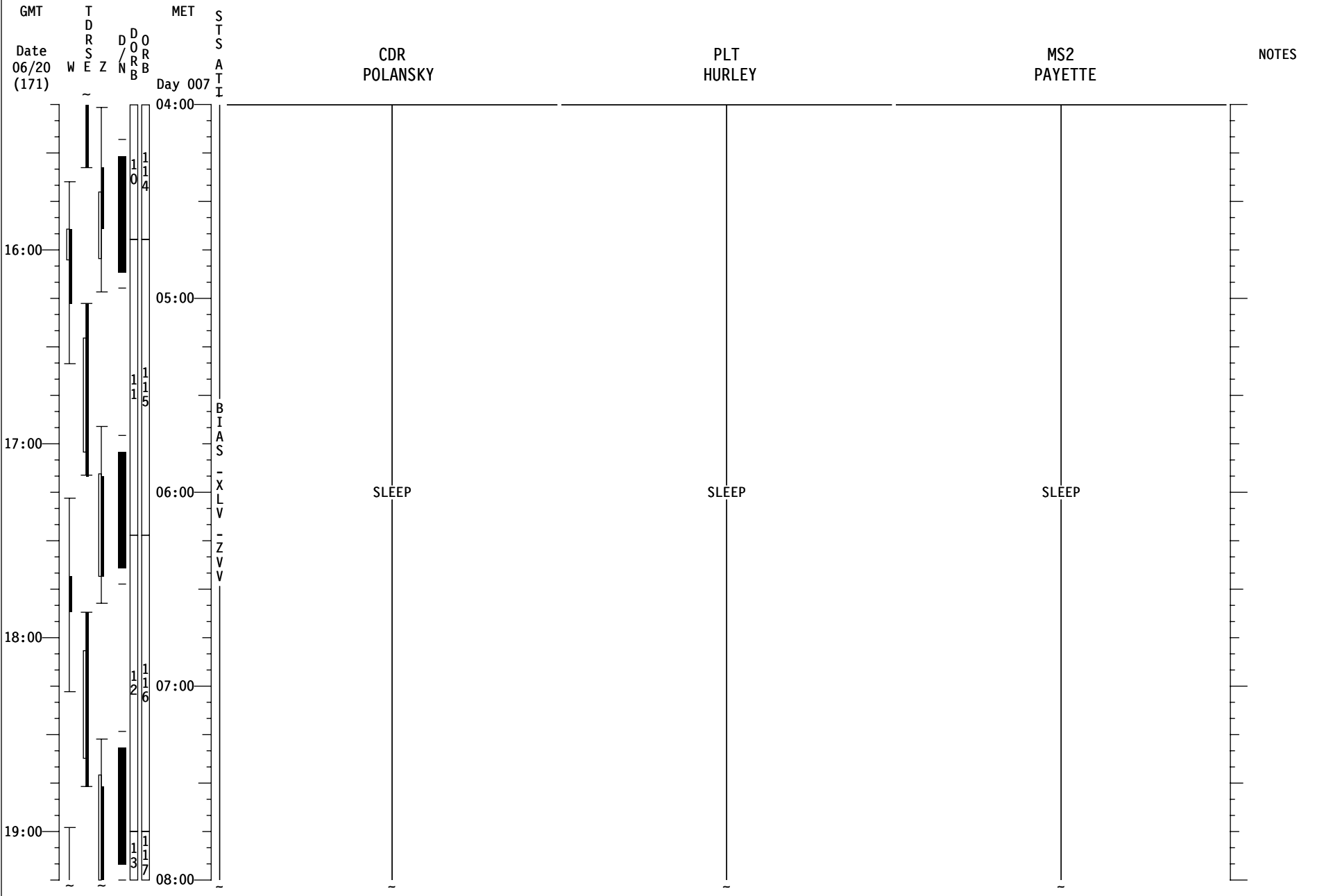
GMT	T D R S E Z	D O R B	MET	S T S	CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
Date 06/20 (171)	W	D O R B	Day 007	I				
					<p>00:00 <u>JOINT OPS: 3.103 NITROGEN TRANSFER TERMINATION</u></p>	<p>00:00 <u>FILTER CLEANING (IFM, SCHEDULED MAINTENANCE)</u> Inspect filters and clean as necessary</p>		
12:00					<p><u>CWC-I FILL (ORB OPS, ECLS) Ref. MSG XXX</u></p> <p><u>PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)</u></p>		EXERCISE	
					<p>01:00 <u>CWC-I TERM (ORB OPS, ECLS)</u></p>	<p>01:00 <u>LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)</u></p> <p><u>PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)</u></p>		
13:00					<p><u>CWC-I TRANSFER</u> Transfer 1 CWC-I to ISS</p> <p><u>LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)</u></p> <p><u>PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)</u></p>		<p><u>LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)</u></p> <p><u>PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)</u></p>	
					<p>02:00 <u>PRIVATE MEDICAL CONFERENCE</u> Perform via A/G 2</p> <p><u>PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)</u></p>			
14:00								
15:00								
04:00								

STS-127 FD (08)

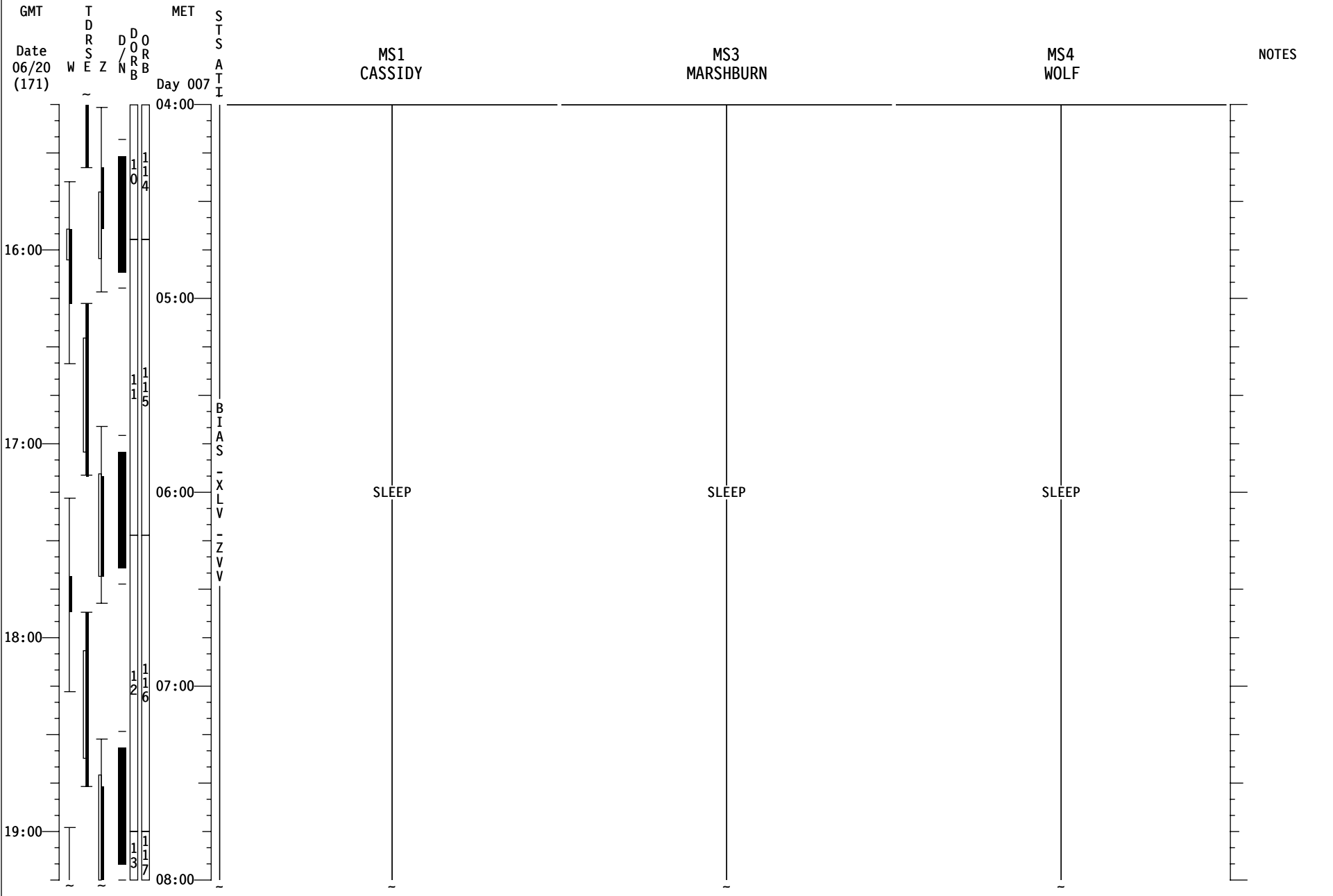
GMT	TDRS WSEZ	MET	S T S A T I	MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	NOTES
Date 06/20 (171)		Day 007					
				<p><u>EVA SYS: CREWLOCK REPRESS (CC)</u> <u>EVA SYS: 1.240 POST EVA</u> With H2O & METOX Steps 38 & 67 not req'd MCC will perform Steps 44 & 68 Ref: 127 EMU CICC In Step 61, temp stow HL Batts for BSA Init</p>	<p><u>EVA SYS: CREWLOCK REPRESS (CC)</u> <u>EVA SYS: 1.240 POST EVA</u> With H2O & METOX Steps 38 & 67 not req'd MCC will perform Steps 44 & 68 Ref: 127 EMU CICC In Step 61, temp stow HL Batts for BSA Init</p>	<p><u>EVA SYS: CREWLOCK REPRESS (CC)</u> <u>EVA SYS: 1.240 POST EVA</u> With H2O & METOX Steps 38 & 67 not req'd MCC will perform Steps 44 & 68 Ref: 127 EMU CICC In Step 61, temp stow HL Batts for BSA Init</p>	
				<p><u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)</p>	<p><u>LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)</u> <u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)</p>	<p><u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)</p>	



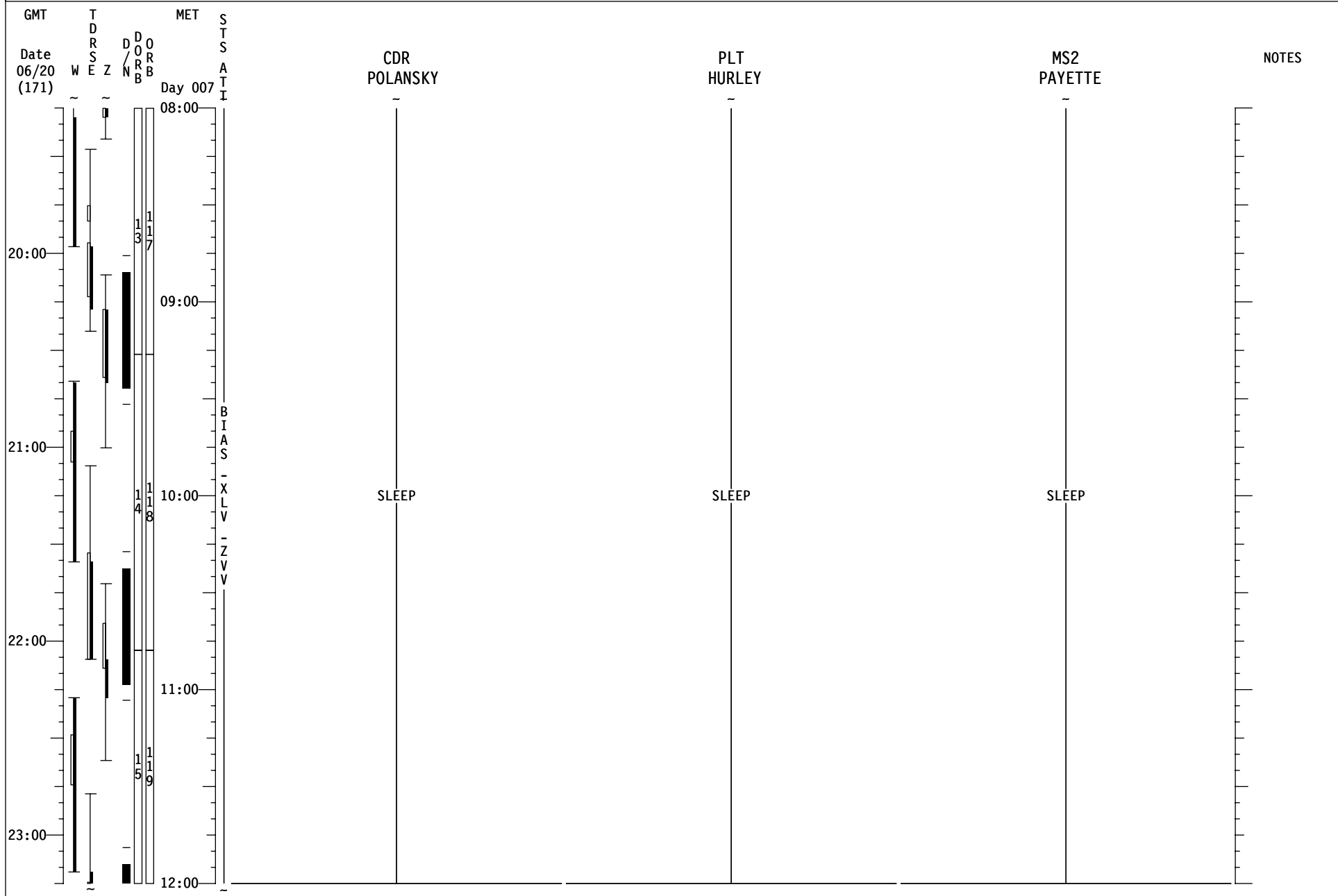
STS-127 FD (08)



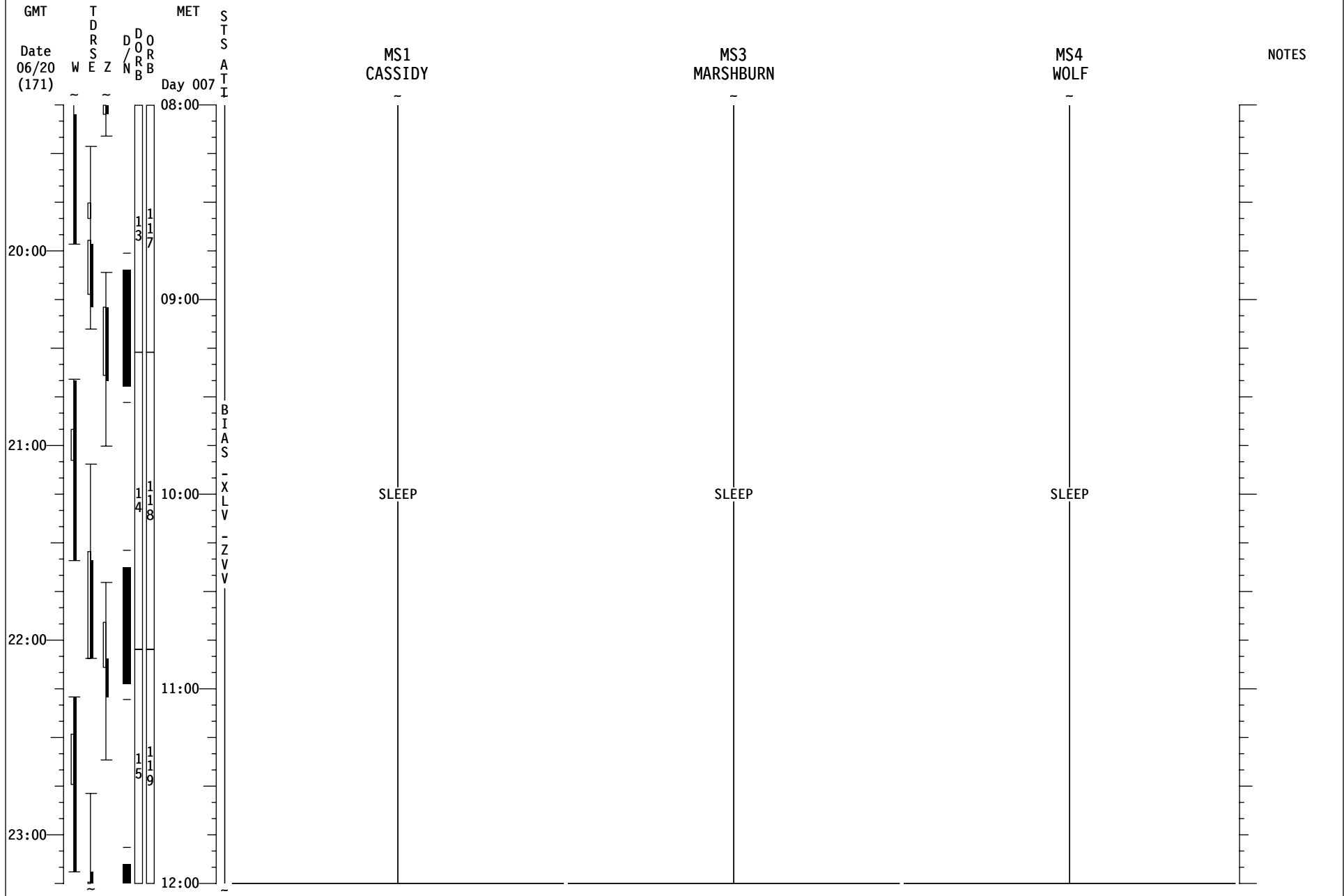
STS-127 FD (08)



STS-127 FD (09)



STS-127 FD (09)



STS-127 FD (09)

GMT	T D R S W E Z N D O R B D O R B	MET Day 007	S T S A T T I	CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
06/20 (171)							
12:00				POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
00:00							
01:00							
02:00							
03:00							
16:00							

FD09 EZ ACTIVITES:
 TEPG (ORB OPS, CREW SYS)
 CHECK STATUS
 ✓OCAC FILTER & MDDK DUCT SCREEN
 HARD REBOOT ALL PGSCs EXCEPT:
 STS-7(WLES), STS-6(RPOP2),
 & OCA ROUTER.

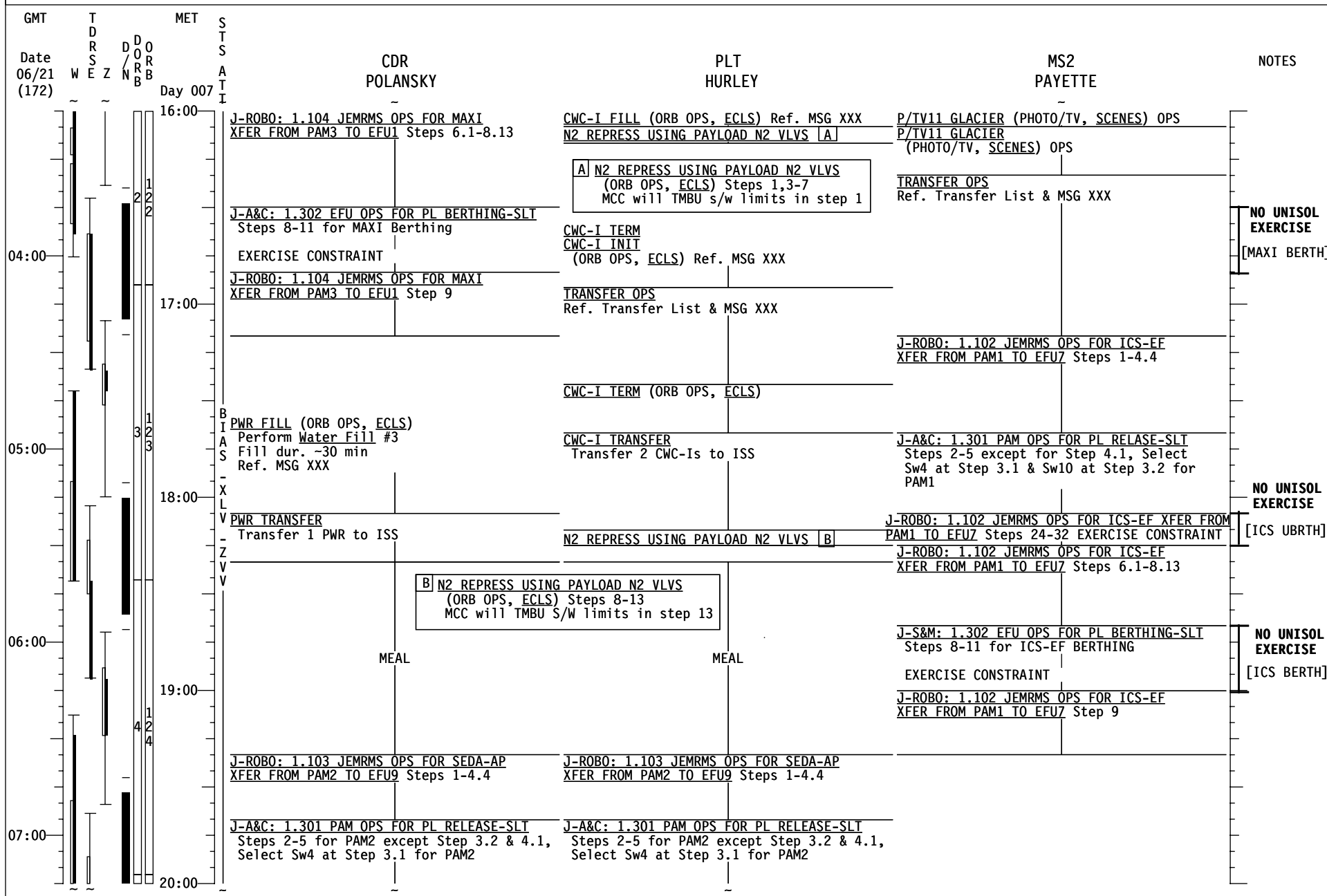
<p>J-ROBO: 1.104 JEMRMS OPS FOR MAXI XFER FROM PAM3 TO EFU1 Steps 1-21</p> <p>J-A&C: 1.301 PAM OPS FOR PL RELEASE-SLT Steps 2-5 for PAM3, Select Sw6 at Step 3.1 & Sw12 at Step 3.2 for PAM3</p> <p>J-ROBO: 1.104 JEMRMS OPS FOR MAXI XFER FROM PAM3 TO EFU1 Steps 4.5-5.3 EXERCISE CONSTRAINT</p> <p>J-ROBO: 1.104 JEMRMS OPS FOR MAXI XFER FROM PAM3 TO EFU1 Steps 6.1-8.13</p>	<p>EXERCISE</p>	<p>L17 Check MCIU filter screen</p> <p>TRANSFER OPS Ref. Transfer List & MSG XXX</p> <p>P/TV11 GLACIER (PHOTO/TV, SCENES) OPS</p>
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	<p>NO UNISOL EXERCISE [MAXI UBRTH]</p>
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STS-127 FD (09)

GMT	TDRSEZ	MET	S	MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	NOTES
Date 06/20 (171)	W E Z	Day 007	STSAIT				
	DORNB						
12:00	159			LIQUID SLVA CLCT (ORB OPS, SDBI) EVA CREW: TAKE 1 ASPIRIN (325mg) SLEEP LOGBOOK (ORB OPS, SDBI) POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	LIQUID SLVA CLCT (ORB OPS, SDBI) SLEEP LOGBOOK (ORB OPS, SDBI) POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	LIQUID SLVA CLCT (ORB OPS, SDBI) EVA CREW: TAKE 1 ASPIRIN (325mg) POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
00:00	160						
01:00	121						
02:00	121						
03:00	222			EVA 4 TOOL CONFIG (EVA, TIMELINES) Ref. MSG XXX	DAILY TRANSFER LIST UPDATE Ref. Transfer List & MSG XXX EVA 4 TOOL CONFIG (EVA, TIMELINES) Ref. MSG XXX	GLACIER SWAP-SHUTTLE (ASSY OPS, PAYLOADS)	NO UNISOL EXERCISE [MAXI UBRTH]
16:00							

STS-127 FD (09)



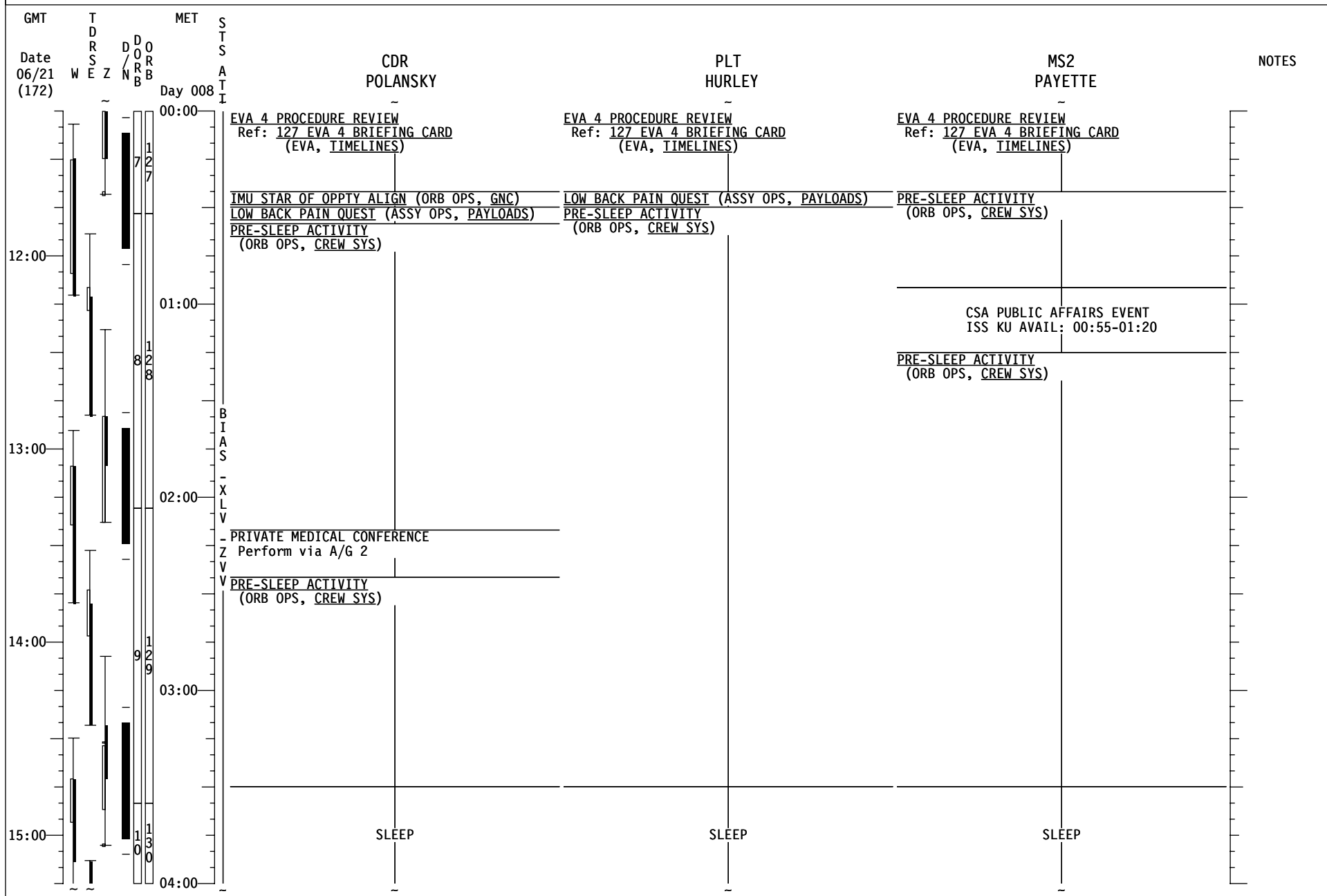
STS-127 FD (09)

GMT	T D R S E Z	D O R B	MET	S T S	MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	NOTES
Date 06/21 (172)	W	E	Day 007	A T I				
16:00					<u>EVA 4 TOOL CONFIG</u> (EVA, TIMELINES) Ref. MSG XXX	<u>EVA 4 TOOL CONFIG</u> (EVA, TIMELINES) Ref. MSG XXX	<u>GLACIER SWAP-SHUTTLE</u> (ASSY OPS, PAYLOADS)	
04:00							<u>GLACIER CONFIG FOR DESCENT</u> (ASSY OPS, PAYLOADS)	NO UNISOL EXERCISE [MAXI BERTH]
							<u>EVA 4 TOOL CONFIG</u> (EVA, TIMELINES) Ref. MSG XXX	
17:00						<u>EVA SYS: 1.605 BSA BATTERY RECHARGE TERM</u> Ref: 127 EMU CTCC		
						<u>EVA SYS: 1.605 BSA BATTERY RECHARGE INIT</u> Ref: 127 EMU CTCC		
						Ref: 127 BATTERY RECHRG PLAN CC	<u>MDDK STATUS CHECK</u> (ASSY OPS, P/L) Step 1	
05:00					EXERCISE	<u>EVA SYS: 1.510 METOX REGENERATION TERM</u>		
						<u>EMU SWAP FOR EVA 4</u> (EVA, AIRLOCK CONFIG)	<u>EMU SWAP FOR EVA 4</u> (EVA, AIRLOCK CONFIG)	
18:00								NO UNISOL EXERCISE [ICS UBRTH]
06:00						<u>EVA SYS: 1.515 EMU METOX/LIOH/BATTERY REPLACEMENT</u> Install METOX Canisters Ref: 127 EMU CTCC	<u>TRANSFER OPS</u> Ref. Transfer List & MSG XXX	NO UNISOL EXERCISE [ICS BERTH]
						<u>EVA SYS: 1.305 EQUIPMENT LK PREP</u> Steps 1-3 not req'd Ref: 127 EMU CTCC		
						<u>EVA SYS: 1.305 EQUIPMENT LK PREP</u> Steps 1-3 not req'd Ref: 127 EMU CTCC		
07:00							EXERCISE	
20:00								

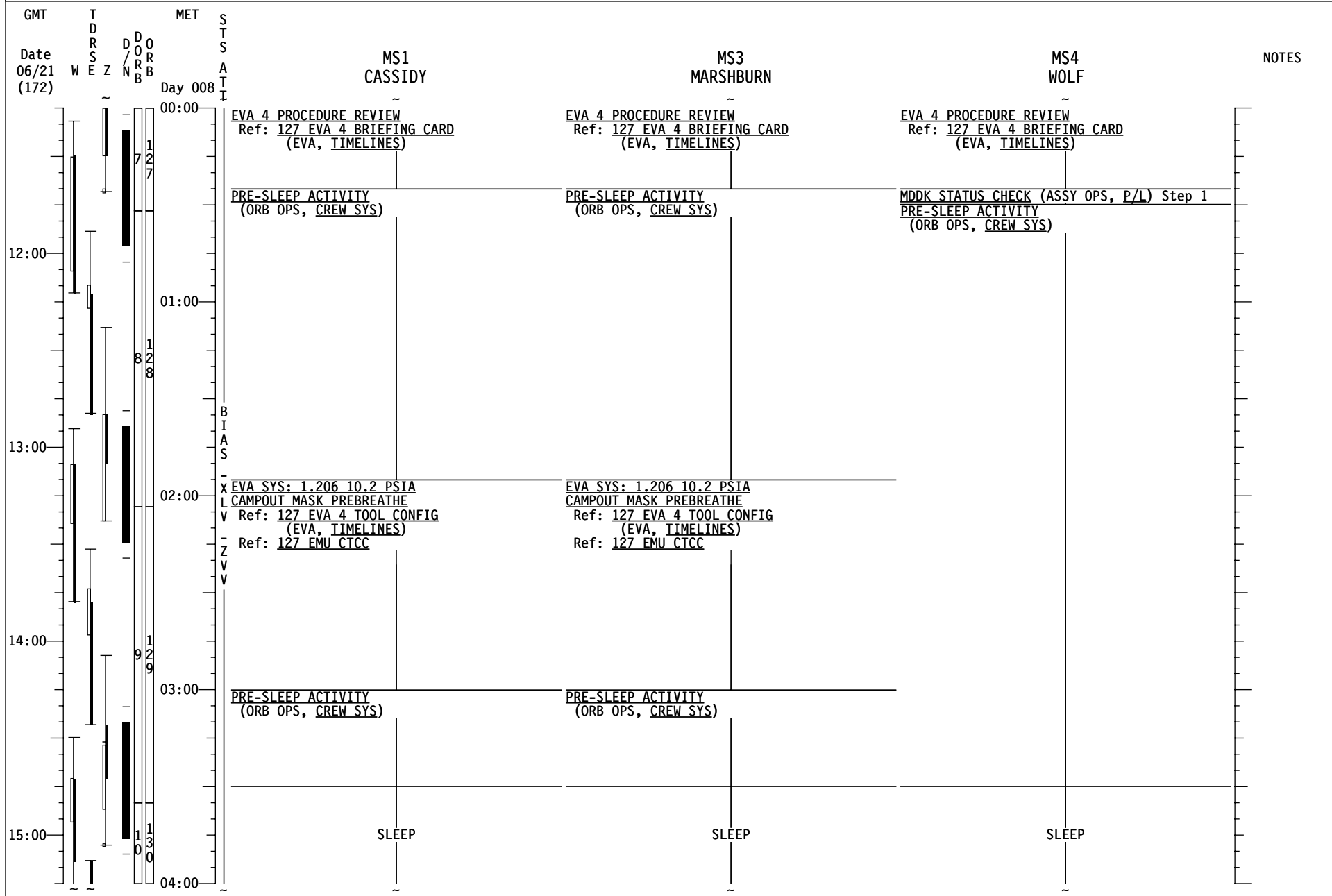
STS-127 FD (09)

GMT	T D R S E Z	D O R B	MET	S T S	MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	NOTES
Date 06/21 (172)	W E Z	D O R B	Day 007	A T I				
08:00		1 2 5	20:00		MEAL	MEAL	MEAL	NO UNISOL EXERCISE [SEDA UBRTH]
		5	21:00				TRANSFER OPS Ref. Transfer List & MSG XXX	NO UNISOL EXERCISE [SEDA BERTH]
09:00		1 2 6	22:00	B I A S		EXERCISE		
		6		- X L V		TRANSFER OPS Ref. Transfer List & MSG XXX		
10:00		1 2 7	23:00	- Z V V		LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)	TRANSFER TAGUP Coordinate with xfer counterpart	
		7				TRANSFER TAGUP Coordinate with xfer counterpart	TRANSFER TAGUP Coordinate with xfer counterpart	
						TRANSFER BRIEF Call down status to MCC		
11:00					PUBLIC AFFAIRS EVENT ISS KU AVAIL: 23:05-23:44	PUBLIC AFFAIRS EVENT ISS KU AVAIL: 23:05-23:44	PUBLIC AFFAIRS EVENT ISS KU AVAIL: 23:05-23:44	
					EVA 4 PROCEDURE REVIEW Ref: 127 EVA 4 BRIEFING CARD (EVA, TIMELINES)	EVA 4 PROCEDURE REVIEW Ref: 127 EVA 4 BRIEFING CARD (EVA, TIMELINES)	EVA 4 PROCEDURE REVIEW Ref: 127 EVA 4 BRIEFING CARD (EVA, TIMELINES)	
00:00								

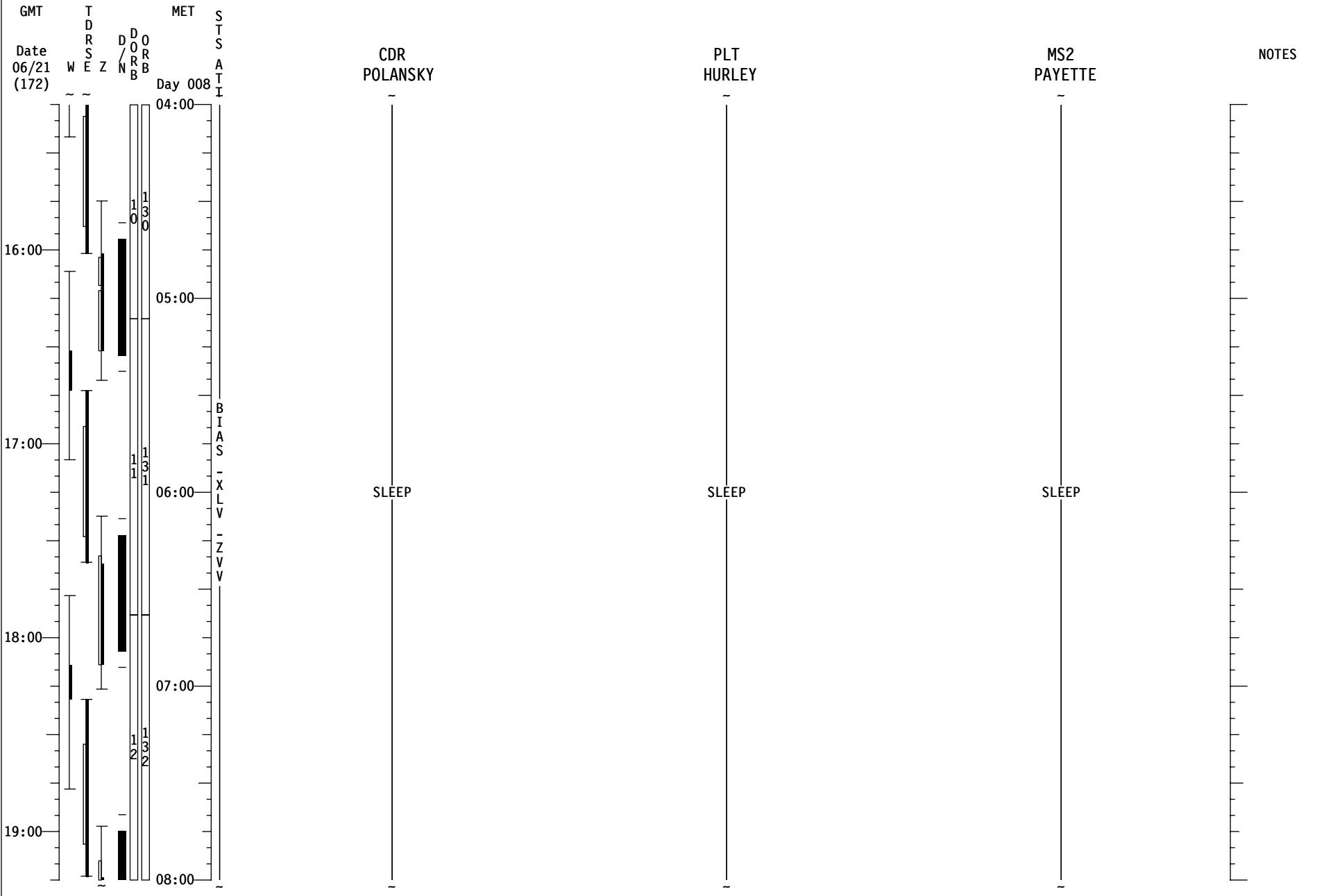
STS-127 FD (09)



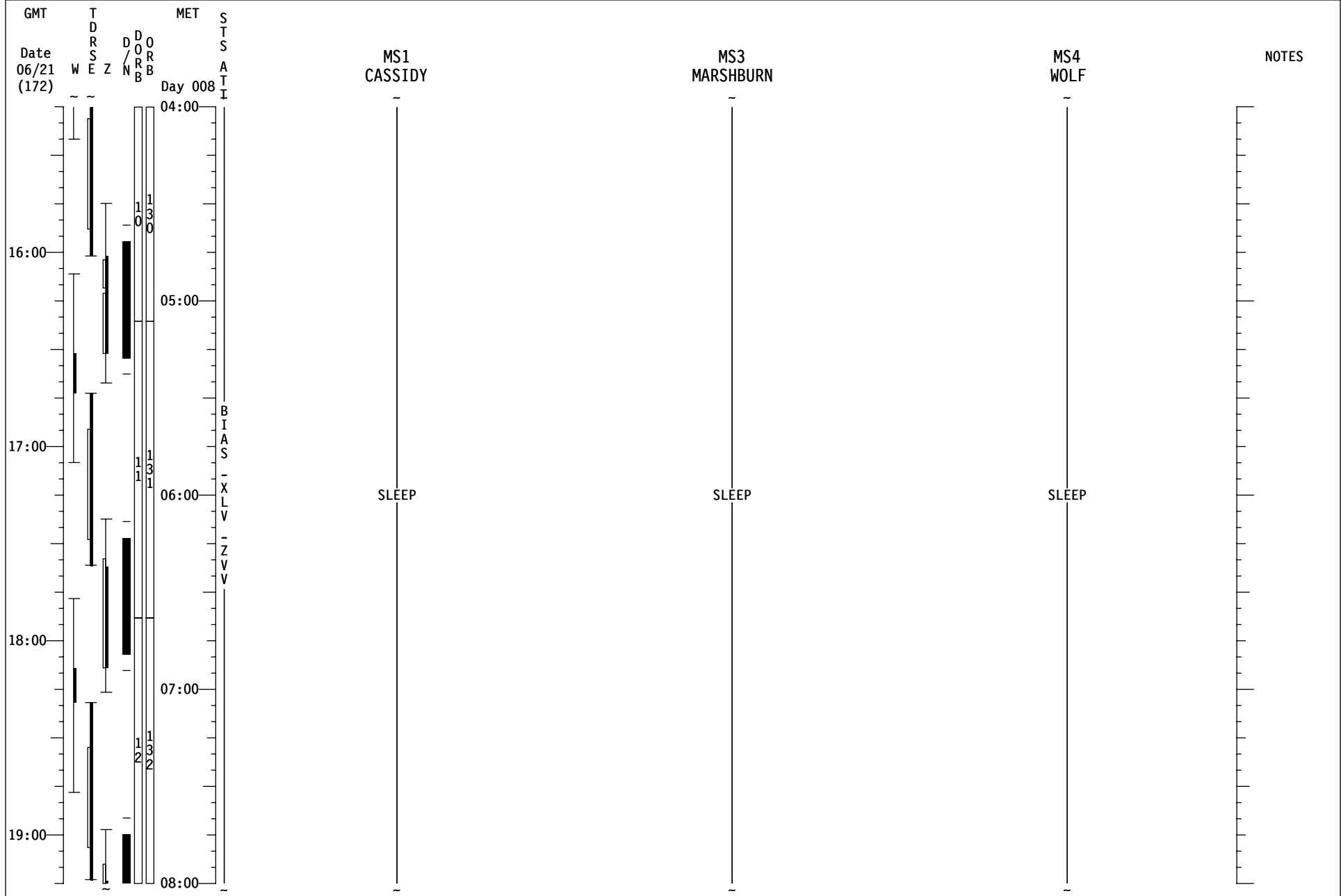
STS-127 FD (09)



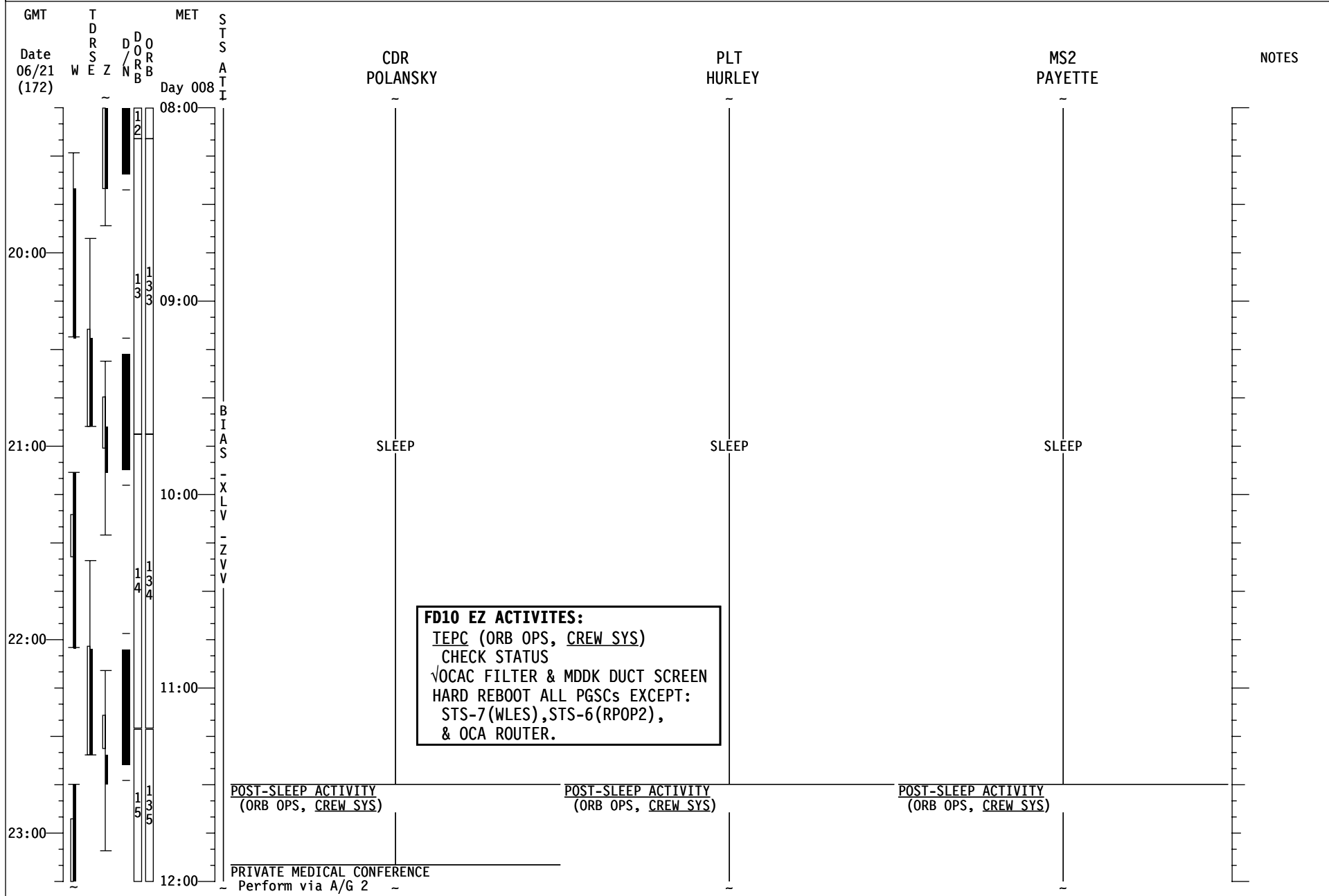
STS-127 FD (09)



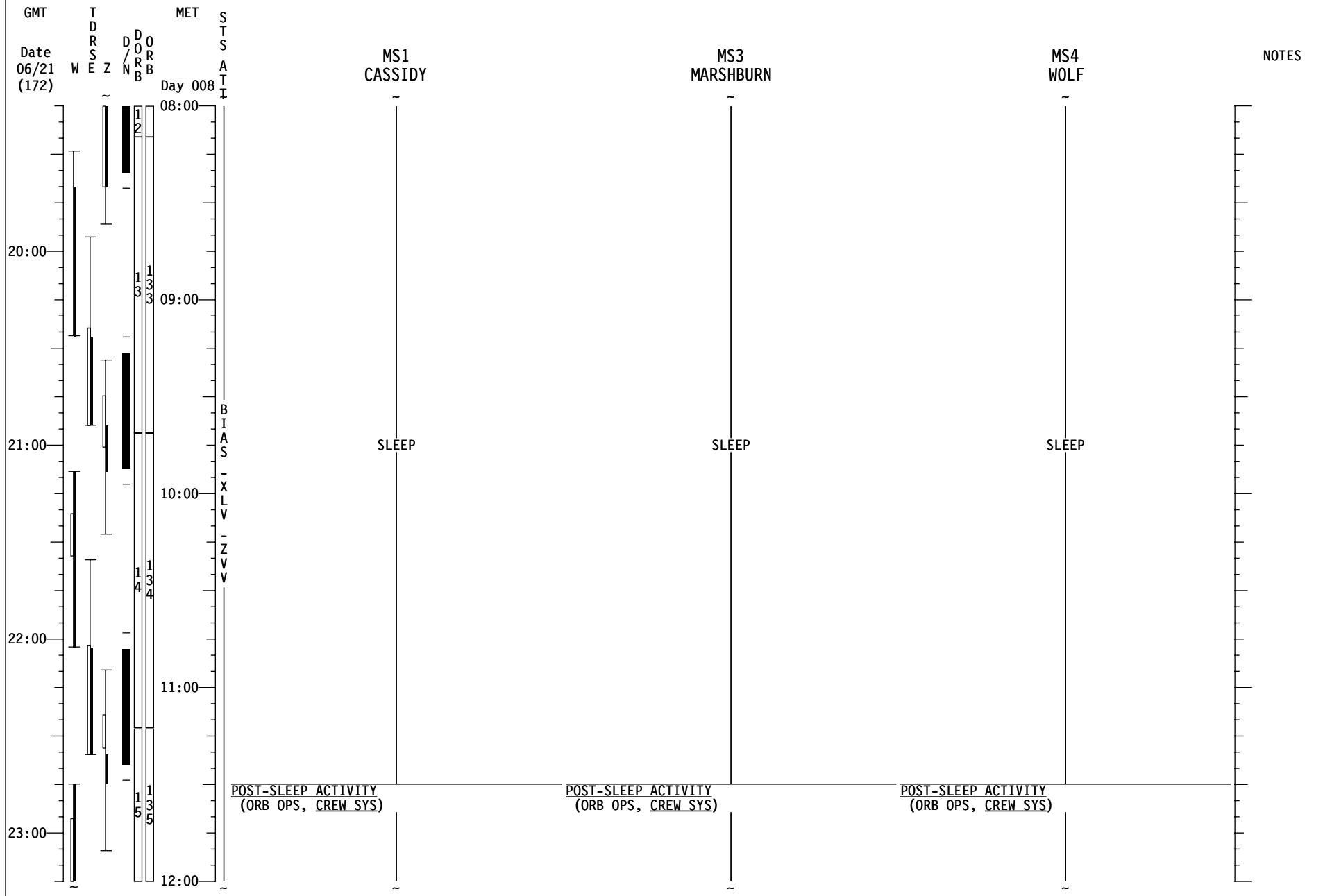
STS-127 FD (09)



STS-127 FD (10)



STS-127 FD (10)



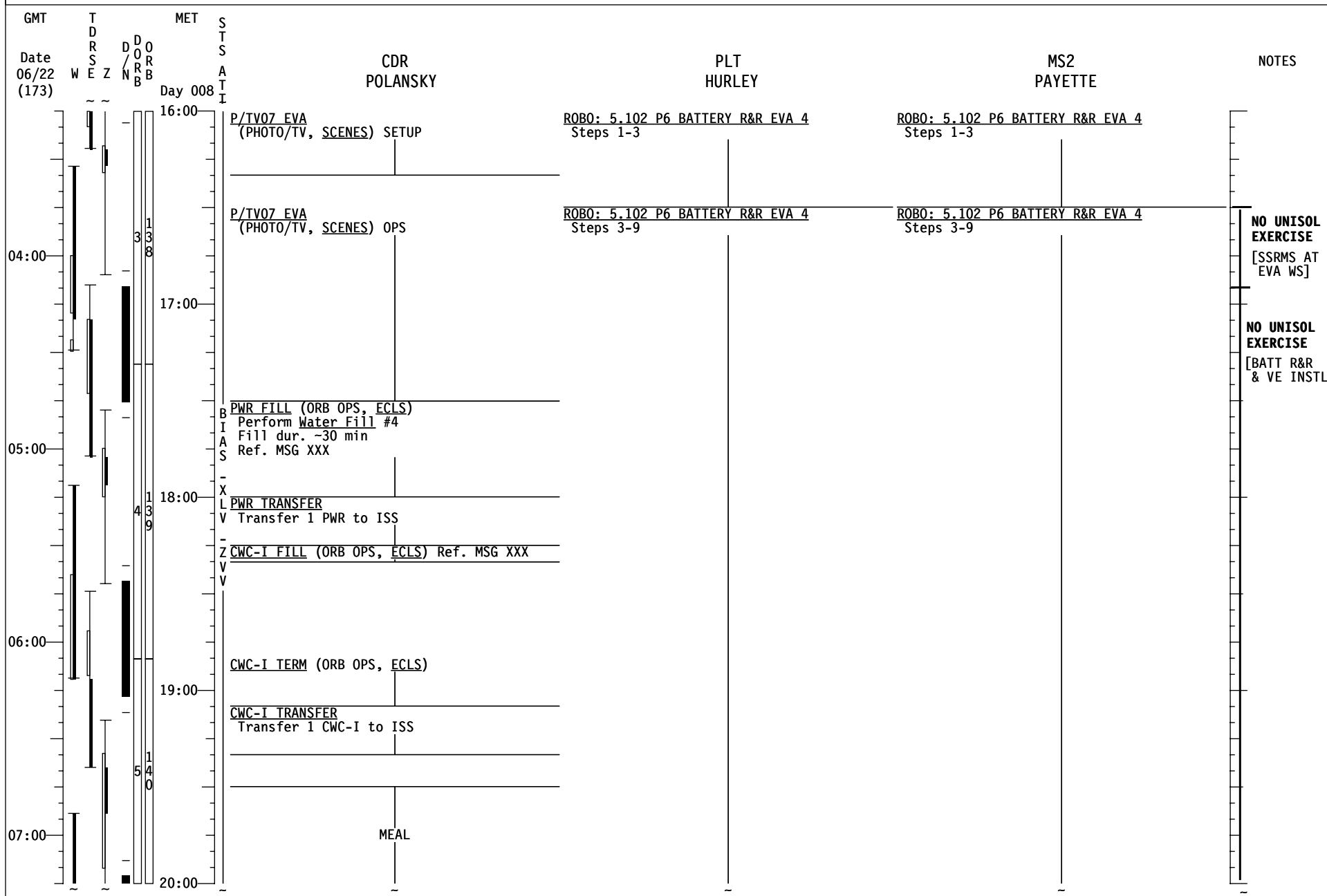
STS-127 FD (10)

GMT	TDRSEZ	MET	SATS	CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
Date 06/21 (172)	W	Day 008	12:00				
				PRIVATE MEDICAL CONFERENCE Perform via A/G 2			
				<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)	
00:00			13:00				
01:00			14:00				
02:00			15:00	EVA 4 INHIBIT PAD (EVA, TIMELINES)		<u>CWC-I FILL</u> (ORB OPS, ECLS) Ref. MSG XXX	
				<u>IMU STAR OF OPPTY ALIGN</u> (ORB OPS, GNC)			
					EXERCISE	<u>CWC-I TERM</u> (ORB OPS, ECLS)	
03:00			16:00	EXERCISE		<u>CWC-I TRANSFER</u> Transfer 1 CWC-I to ISS	
					<u>WCS COMPACTOR OPS (DUAL-VANE)</u> (ORB OPS, CUE CARD)		

STS-127 FD (10)

GMT	TDRSEZ W E Z	MET Day 008	S T S A T I	MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	NOTES
Date 06/21 (172) 12:00 00:00 01:00 02:00 03:00 16:00	D O R B N B 1 5 5 1 3 6 1 3 7 2 3 3	12:00 13:00 14:00 15:00 16:00	B I A S - X L V - Z V V	<p><u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)</p> <p><u>EVA SYS: 1.211 HYGIENE BREAK</u> Start no earlier than 8:40 hrs from the end of: <u>1.206 10.2 PSIA CAMPOUT MASK PREBREATHE</u> MCC-H performs Steps 1-4,16-20 & 23</p>	<p><u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)</p> <p><u>EVA SYS: 1.211 HYGIENE BREAK</u> Start no earlier than 8:40 hrs from the end of: <u>1.206 10.2 PSIA CAMPOUT MASK PREBREATHE</u> MCC-H performs Steps 1-4,16-20 & 23</p>	<p><u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)</p>	
				<p><u>EVA SYS: 1.216 10.2 PSIA CAMPOUT EVA PREP</u></p>	<p><u>EVA SYS: 1.216 10.2 PSIA CAMPOUT EVA PREP</u></p>	<p><u>EVA SYS: 1.211 HYGIENE BREAK</u> Steps 21-29 MCC-H performs Step 23</p>	
				<p><u>EVA SYS: 1.220 EMU PURGE</u></p>	<p><u>EVA SYS: 1.220 EMU PURGE</u></p>	<p><u>EVA SYS: 1.216 10.2 PSIA CAMPOUT EVA PREP</u></p>	
				<p><u>EVA SYS: 1.225 EMU PREBREATHE</u></p>	<p><u>EVA SYS: 1.225 EMU PREBREATHE</u></p>	<p><u>EVA SYS: 1.220 EMU PURGE</u></p>	
				<p><u>EVA SYS: CREWLOCK DEPRESS (CC)</u></p>	<p><u>EVA SYS: CREWLOCK DEPRESS (CC)</u></p>	<p><u>EVA SYS: 1.225 EMU PREBREATHE</u></p>	
				<p><u>EVA SYS: CREWLOCK DEPRESS (CC)</u></p>	<p><u>EVA SYS: CREWLOCK DEPRESS (CC)</u></p>	<p><u>EVA SYS: CREWLOCK DEPRESS (CC)</u></p>	

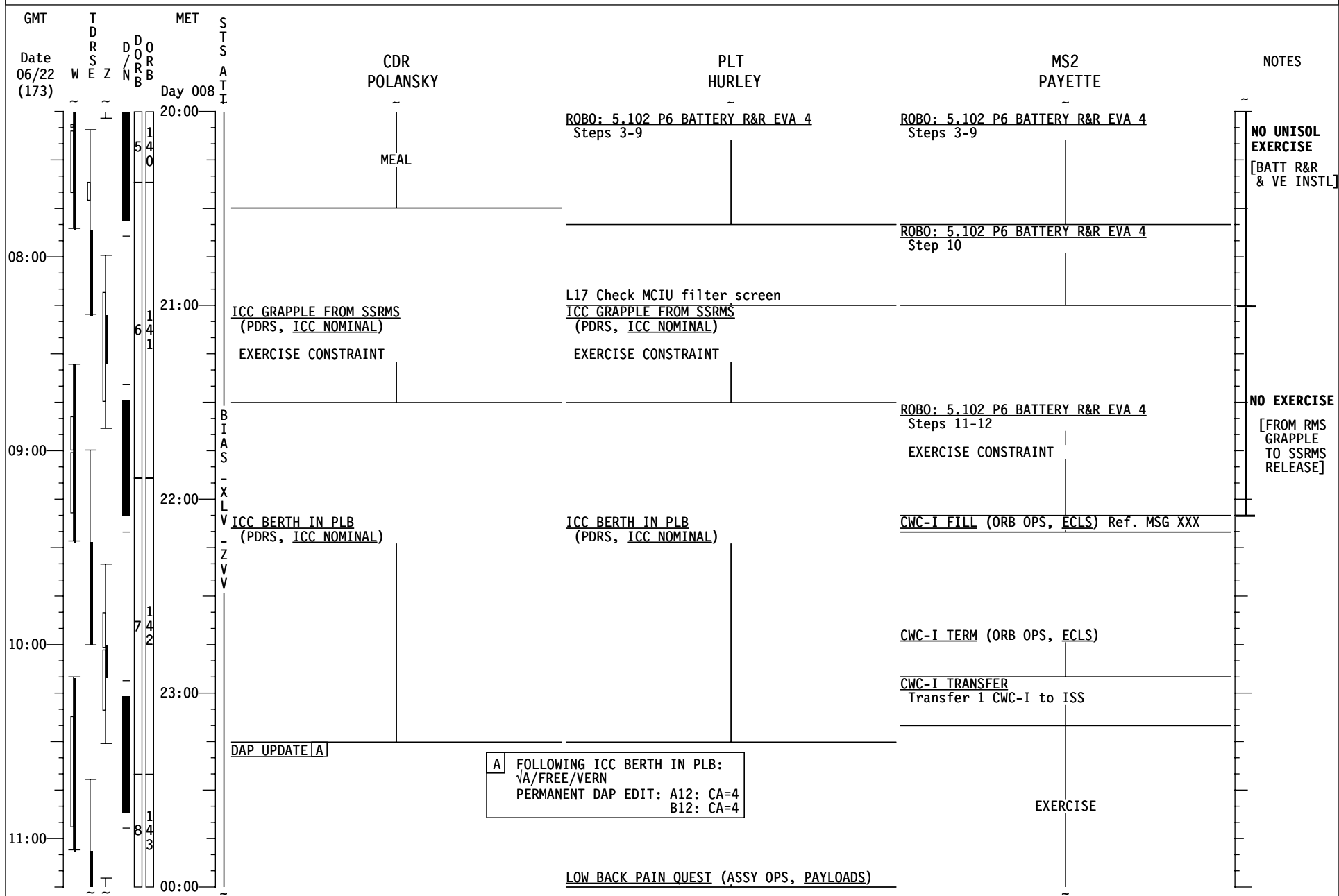
STS-127 FD (10)



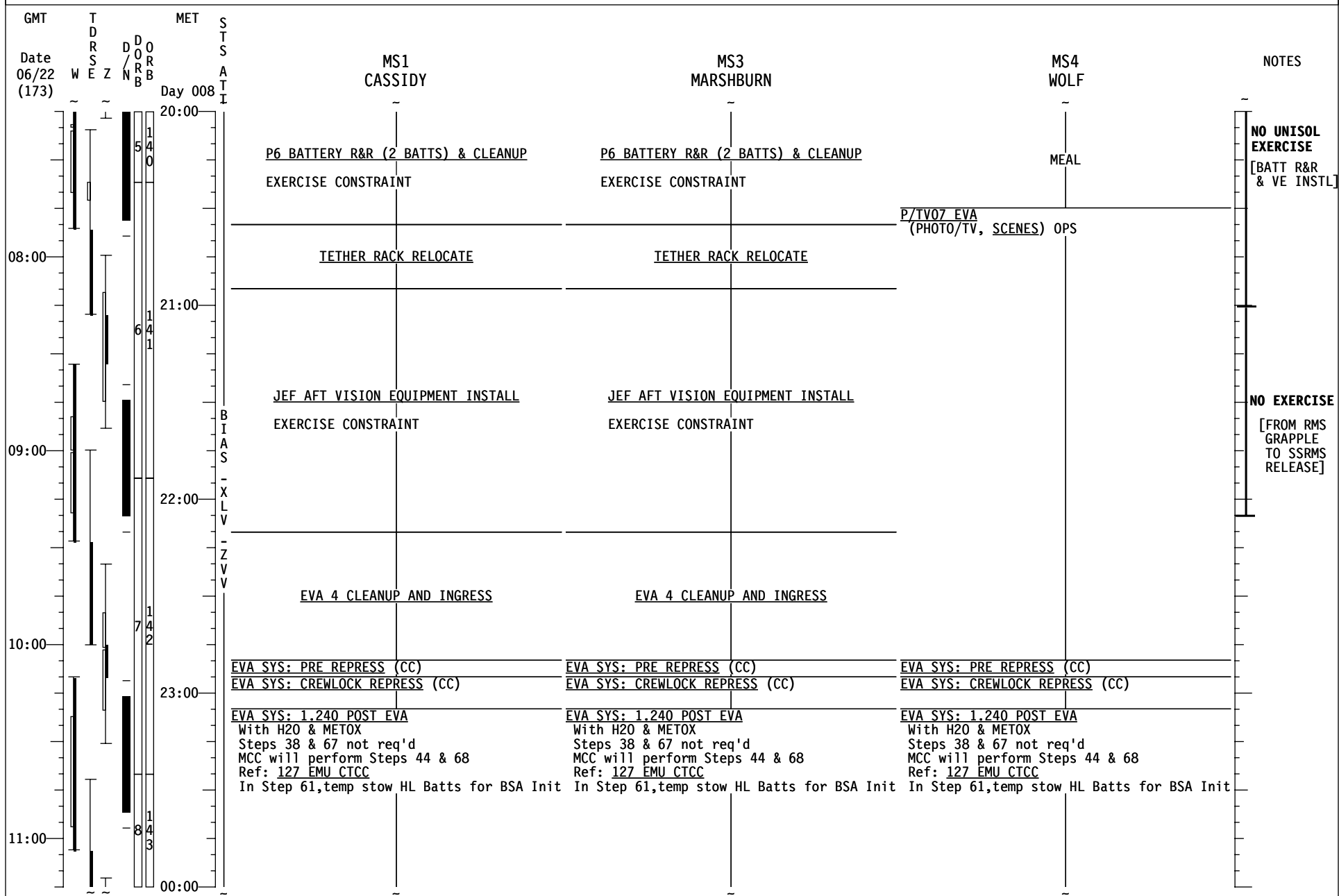
STS-127 FD (10)

GMT	TDRS W E Z	MET Day 008	S T S A T I	MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	NOTES
04:00	~	16:00	I	EVA SYS: CREWLOCK DEPRESS (CC)	EVA SYS: CREWLOCK DEPRESS (CC)	EVA SYS: CREWLOCK DEPRESS (CC)	NO UNISOL EXERCISE [SSRMS AT EVA WS]
				EVA SYS: CREWLOCK POST DEPRESS (CC) EVA SYS: CREWLOCK EGRESS (CC)	EVA SYS: CREWLOCK POST DEPRESS (CC) EVA SYS: CREWLOCK EGRESS (CC)	EVA SYS: CREWLOCK POST DEPRESS (CC) MDDK STATUS CHECK (ASSY OPS, P/L) Step 1 P/TV07 EVA (PHOTO/TV, SCENES) OPS	
05:00	~	17:00	S	EVA 4 SETUP	EVA 4 SETUP		NO UNISOL EXERCISE [BATT R&R & VE INSTL]
06:00	~	18:00	V	P6 BATTERY R&R (2 BATT) & CLEANUP EXERCISE CONSTRAINT	P6 BATTERY R&R (2 BATT) & CLEANUP EXERCISE CONSTRAINT		
07:00	~	19:00	V				
20:00						MEAL	

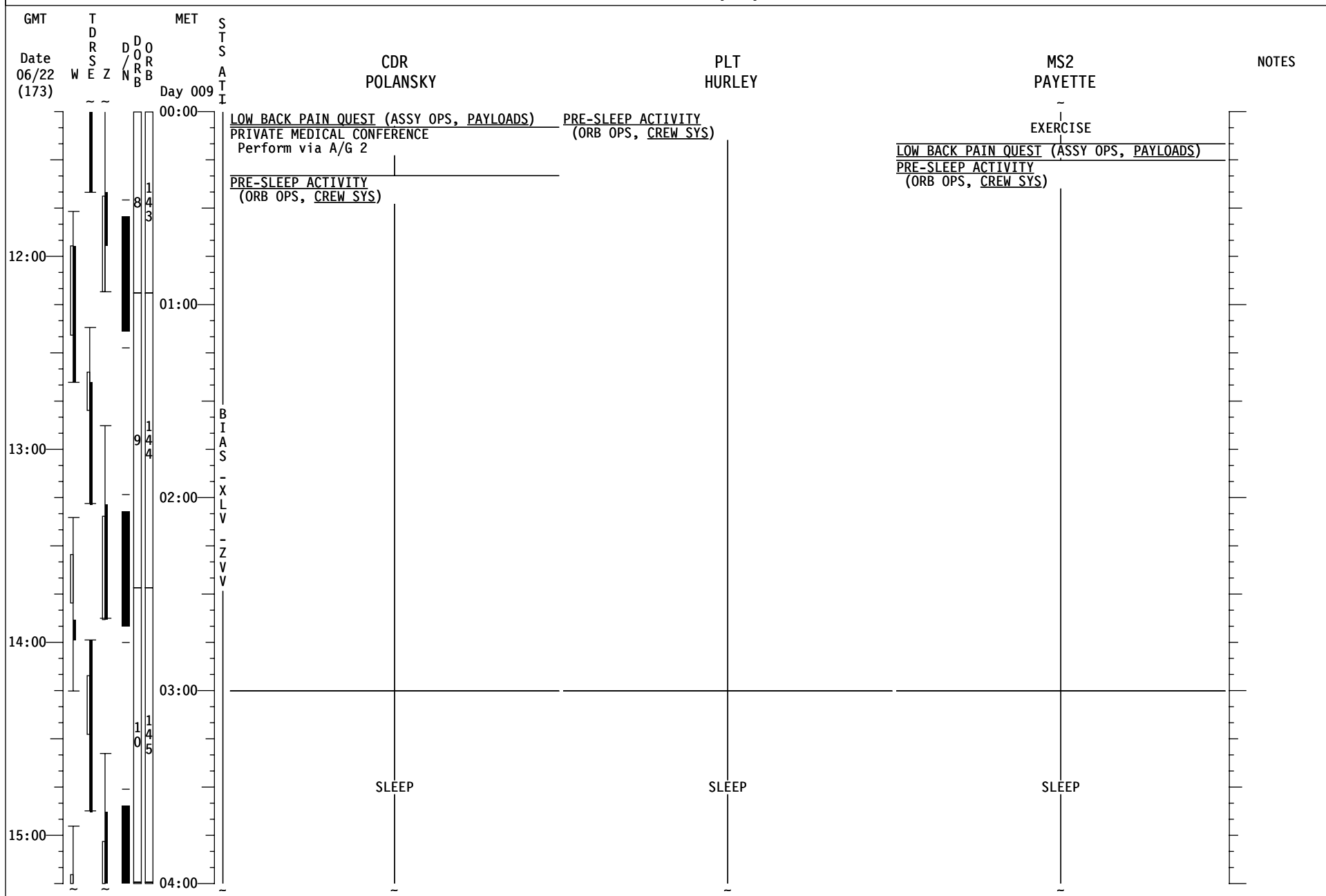
STS-127 FD (10)



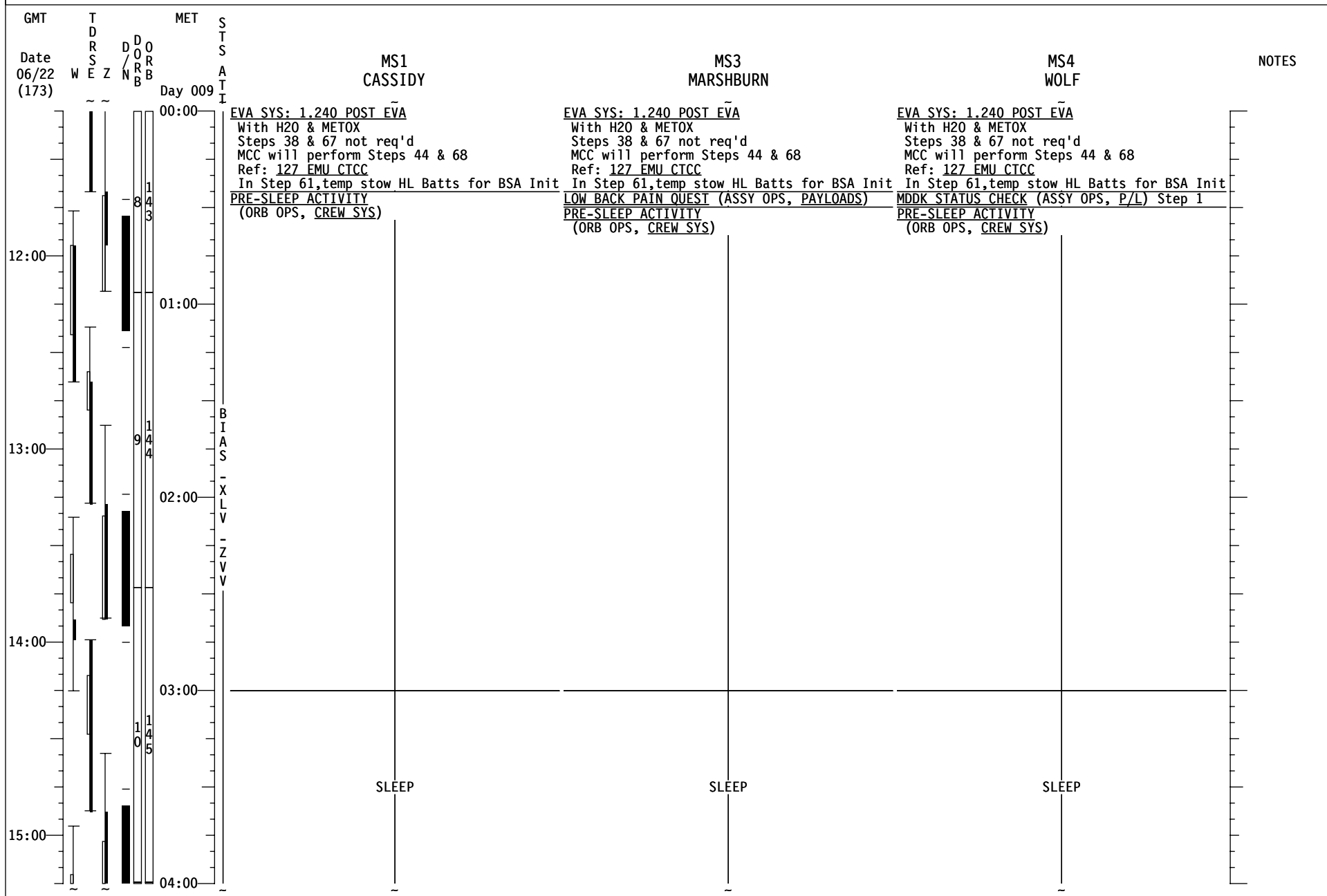
STS-127 FD (10)



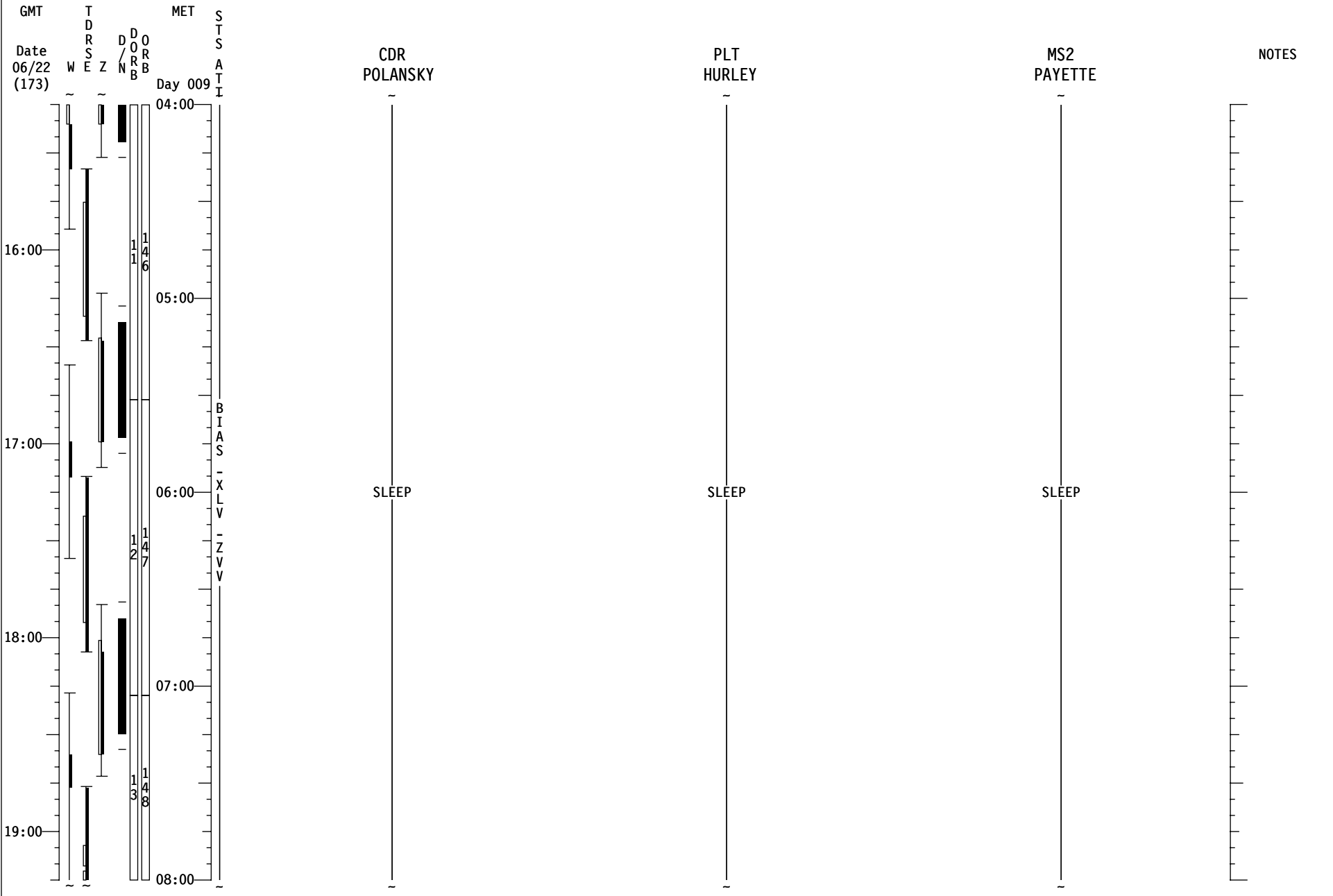
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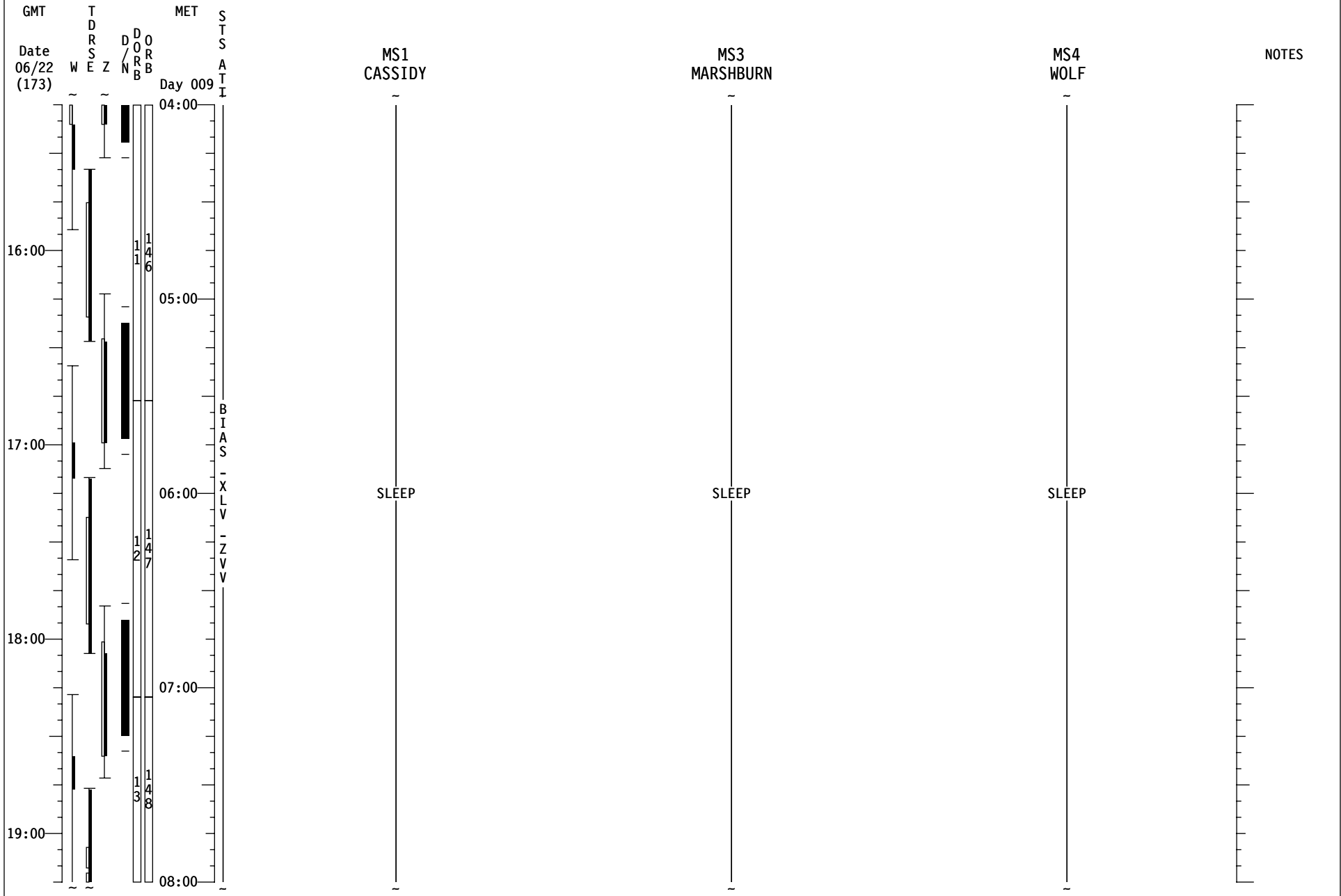
STS-127 FD (10)



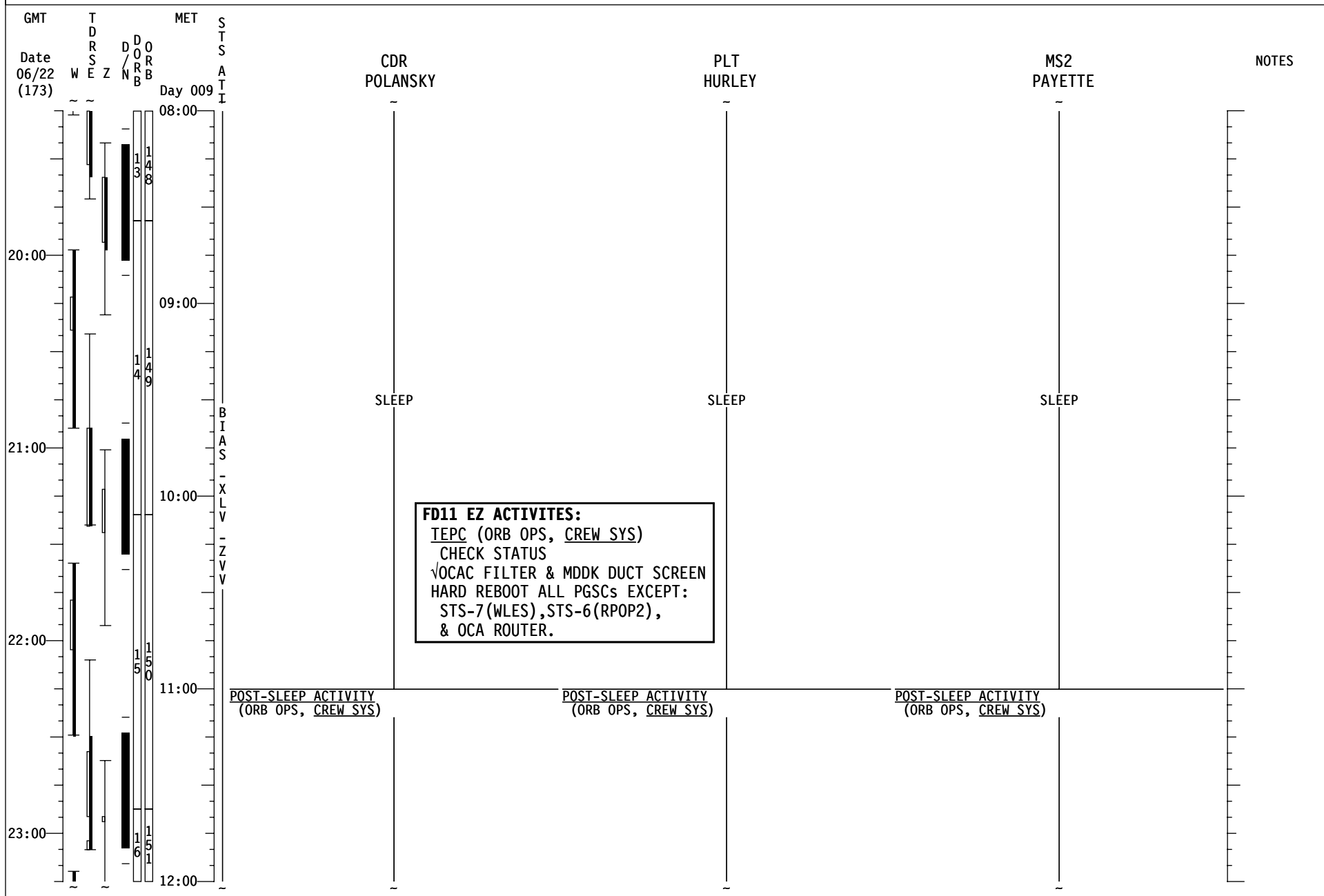
STS-127 FD (10)



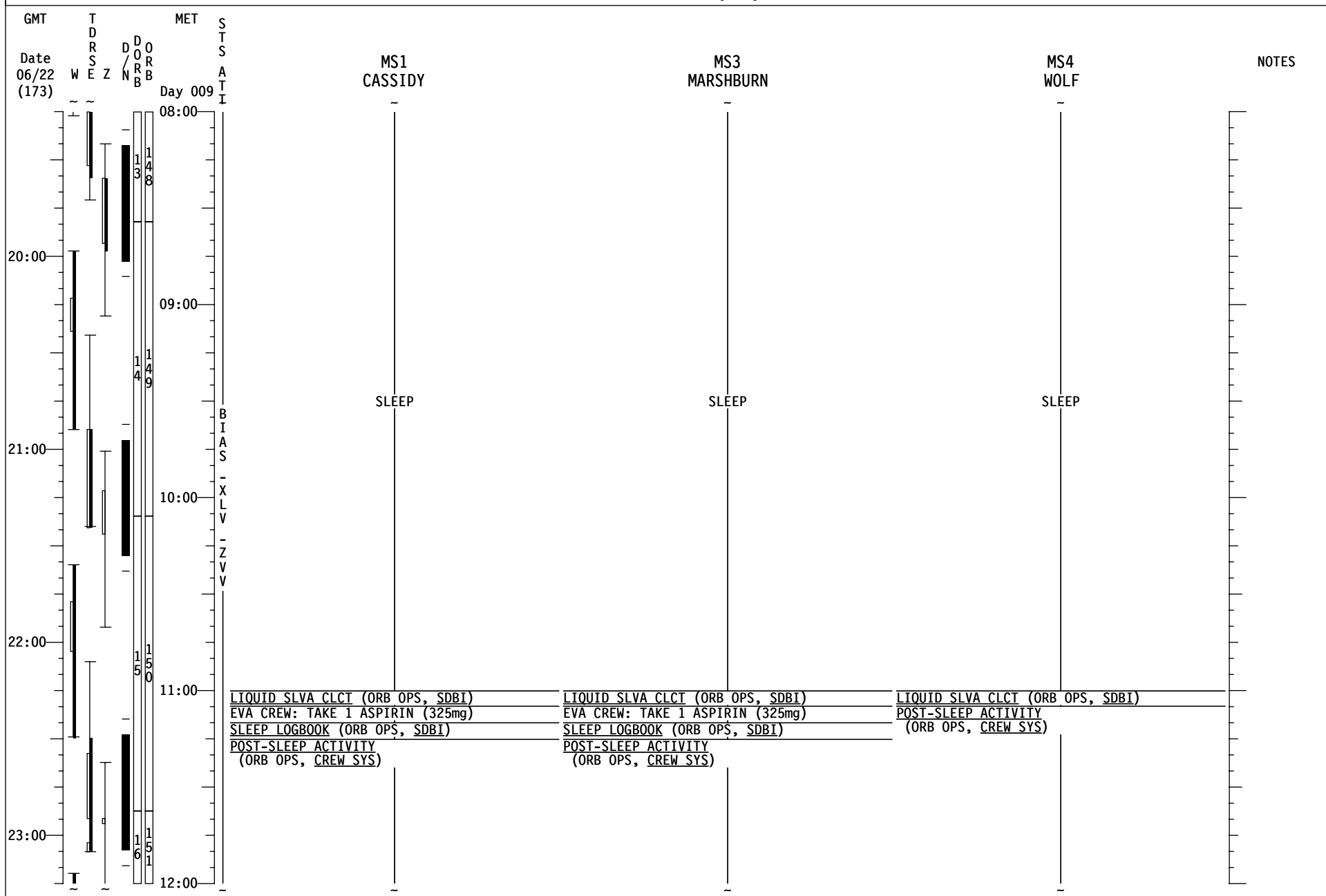
STS-127 FD (10)



STS-127 FD (11)



STS-127 FD (11)



STS-127 FD (11)

GMT	TDRSEZ	MET	SATS	CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
Date 06/22 (173)	W	Day 009	1				
				<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>	
00:00							
				<p>IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)</p> <p>JOINT OPS: 3.123 O2 TRANSFER SETUP (POST PREBREATHE USING SHUTTLE O2) Steps 2-5.7, MCC-H will perform Steps 2.5 & 5.6</p>			
01:00							
				<p>JOINT OPS: 3.116 HIGH PRESSURE TANK O2 TRANSFER Steps 1 & 2</p>	<p>L17 Check MCIU filter screen SHUTTLE CONDENSATE COLLECTION (ORB OPS, ECLS) CHANGEOUT Use CWC S/N XXX</p>		
02:00				<p>PUBLIC AFFAIRS EVENT ISS KU AVAIL: 14:25-14:50</p>	<p>PUBLIC AFFAIRS EVENT ISS KU AVAIL: 14:25-14:50</p>	<p>PUBLIC AFFAIRS EVENT ISS KU AVAIL: 14:25-14:50</p>	
				<p>EXERCISE</p>	<p>OFF DUTY</p>	<p>OFF DUTY</p>	
03:00				<p>OFF DUTY</p>			
16:00							

STS-127 FD (11)

GMT	TDRSEZ	MET	S	MS1	MS3	MS4	NOTES
Date 06/22 (173)	W E Z	Day 009	ST S A T I	CASSIDY	MARSHBURN	WOLF	
12:00				POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
00:00							
01:00							
14:00				LIQH EXCHANGE PART B Ref. MSG XXX	MDDK STATUS CHECK (ASSY OPS, P/L) Step 1	EVA SYS: 1.510 METOX REGENERATION TERM	
					EVA SYS: 1.605 BSA BATTERY RECHARGE TERM Ref: 127 EMU CTCC	EVA SYS: 1.510 METOX REGENERATION INIT	
02:00				PUBLIC AFFAIRS EVENT ISS KU AVAIL: 14:25-14:50	PUBLIC AFFAIRS EVENT ISS KU AVAIL: 14:25-14:50	PUBLIC AFFAIRS EVENT ISS KU AVAIL: 14:25-14:50	
15:00				OFF DUTY	OFF DUTY	OFF DUTY	
03:00				EXERCISE		EXERCISE	
16:00							

STS-127 FD (11)

GMT	TDRSEZ	MET	STS	CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
Date 06/23 (174)	W E Z	Day 009	ST S A T I				
	DORBN			OFF DUTY		OFF DUTY	
	1 2			NETMEETING VIDEO CONF (ORB OPS, PGSC) Private Family Conference KU TDRE (15:57-16:28) A			
04:00	3 4			OFF DUTY	OFF DUTY	EXERCISE	
	1 5 4						
05:00	4			OFF DUTY			
	1 5 5						
06:00	5			OFF DUTY	EXERCISE	OFF DUTY	
	1 5 6						
07:00	6			MEAL	MEAL	MEAL	
20:00				OFF DUTY	OFF DUTY	OFF DUTY	

A Omit Steps 1.2 & 3
Use A/G 2 for Audio & Inform
MCC of which PGSC will be used

STS-127 FD (11)

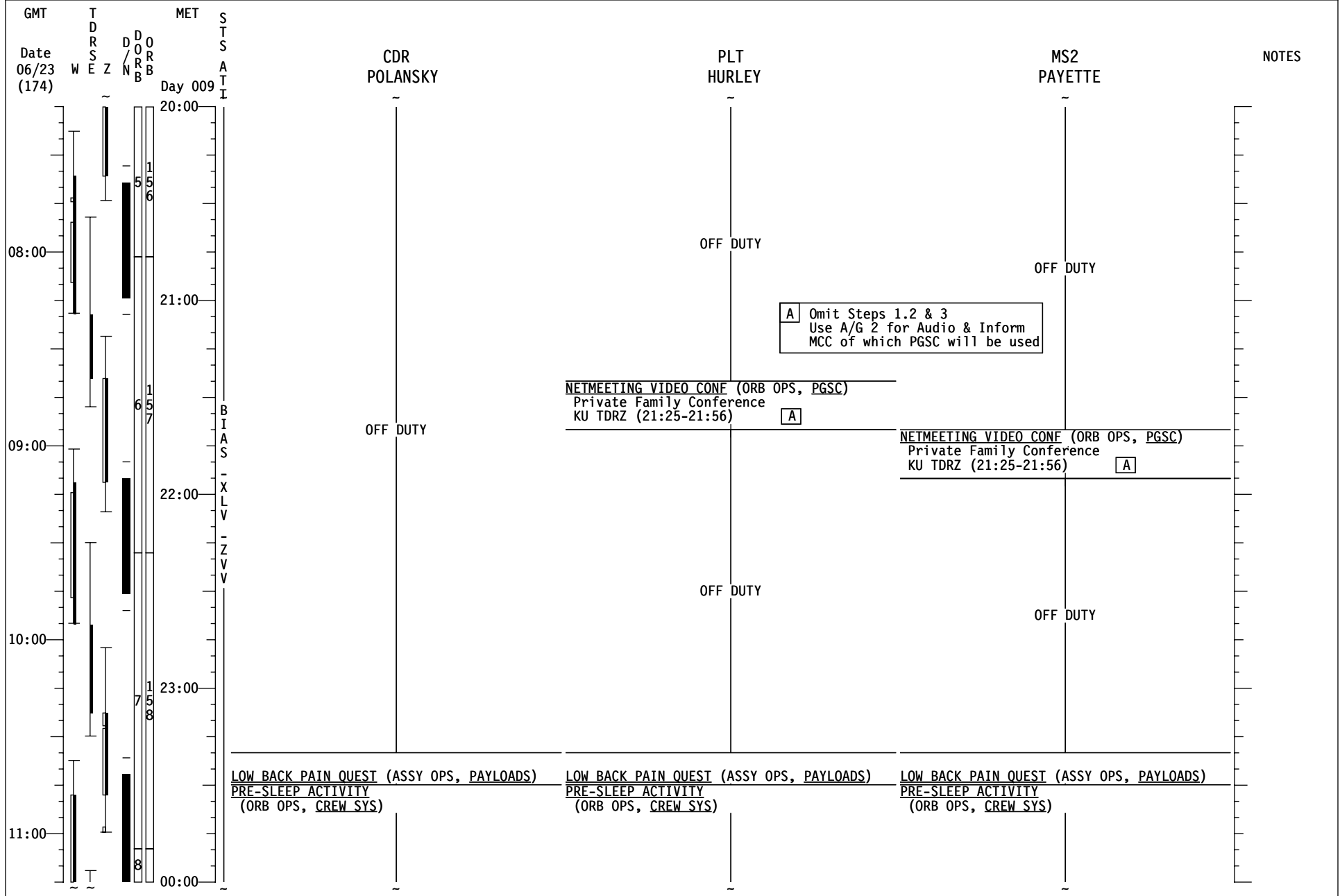
GMT	TDRSZ	MET	STS	MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	NOTES
Date 06/23 (174)	W E Z	Day 009	ATTI				
16:00	1 2			EXERCISE	OFF DUTY	EXERCISE	
04:00	3 4						
17:00	1 5 4			EXERCISE	EXERCISE	OFF DUTY	
05:00	3 4		BIAS	OFF DUTY			
18:00	4 5		XLV		OFF DUTY		
06:00	4 5		ZVV				
19:00	5 6			MEAL	MEAL	MEAL	
07:00	5 6			OFF DUTY	OFF DUTY	OFF DUTY	
20:00							

A Omit Steps 1.2 & 3
 Use A/G 2 for Audio & Inform
 MCC of which PGSC will be used

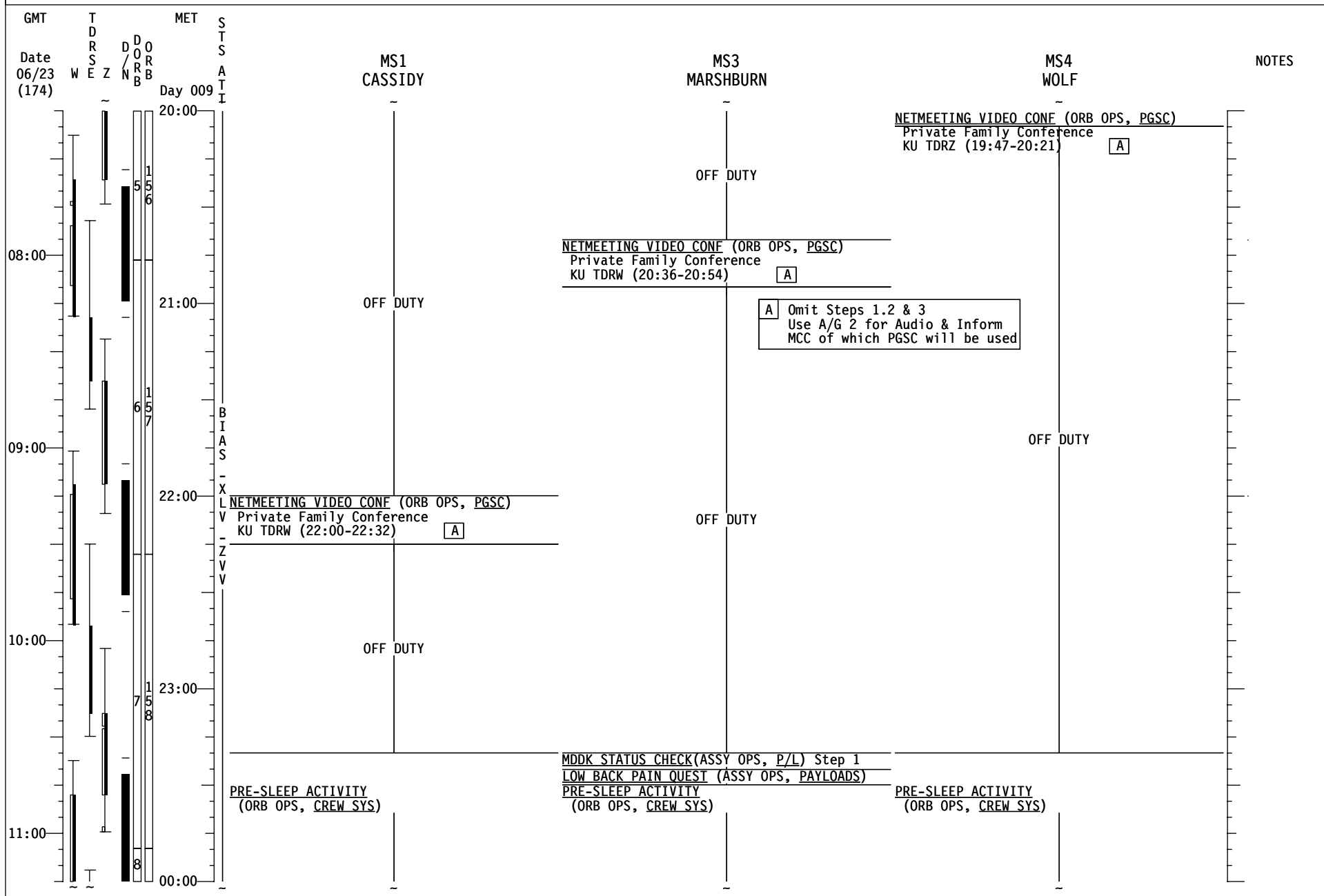
NETMEETING VIDEO CONF (ORB OPS, PGSC)
 Private Family Conference
 KU TDRZ (19:47-20:21)

A

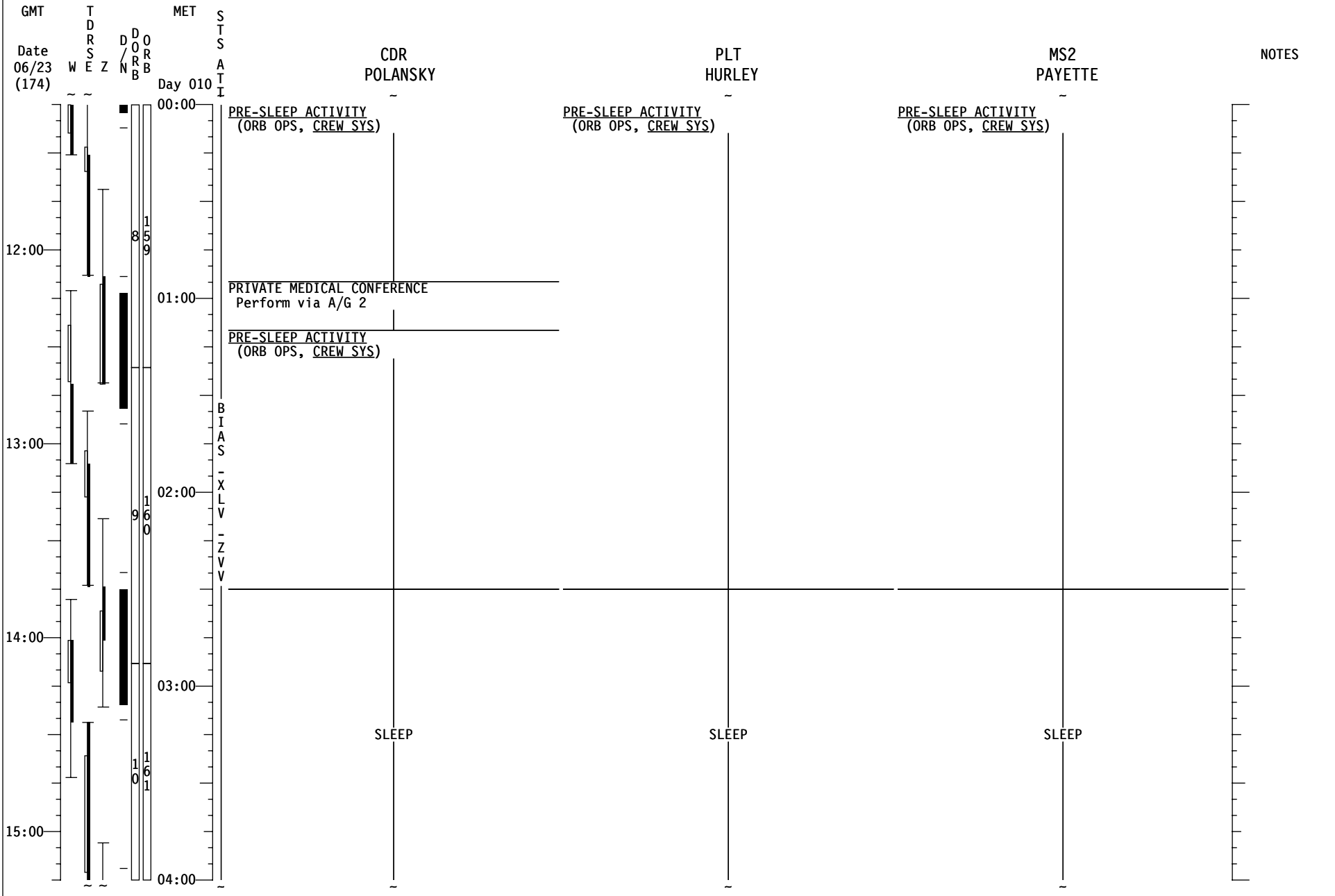
STS-127 FD (11)



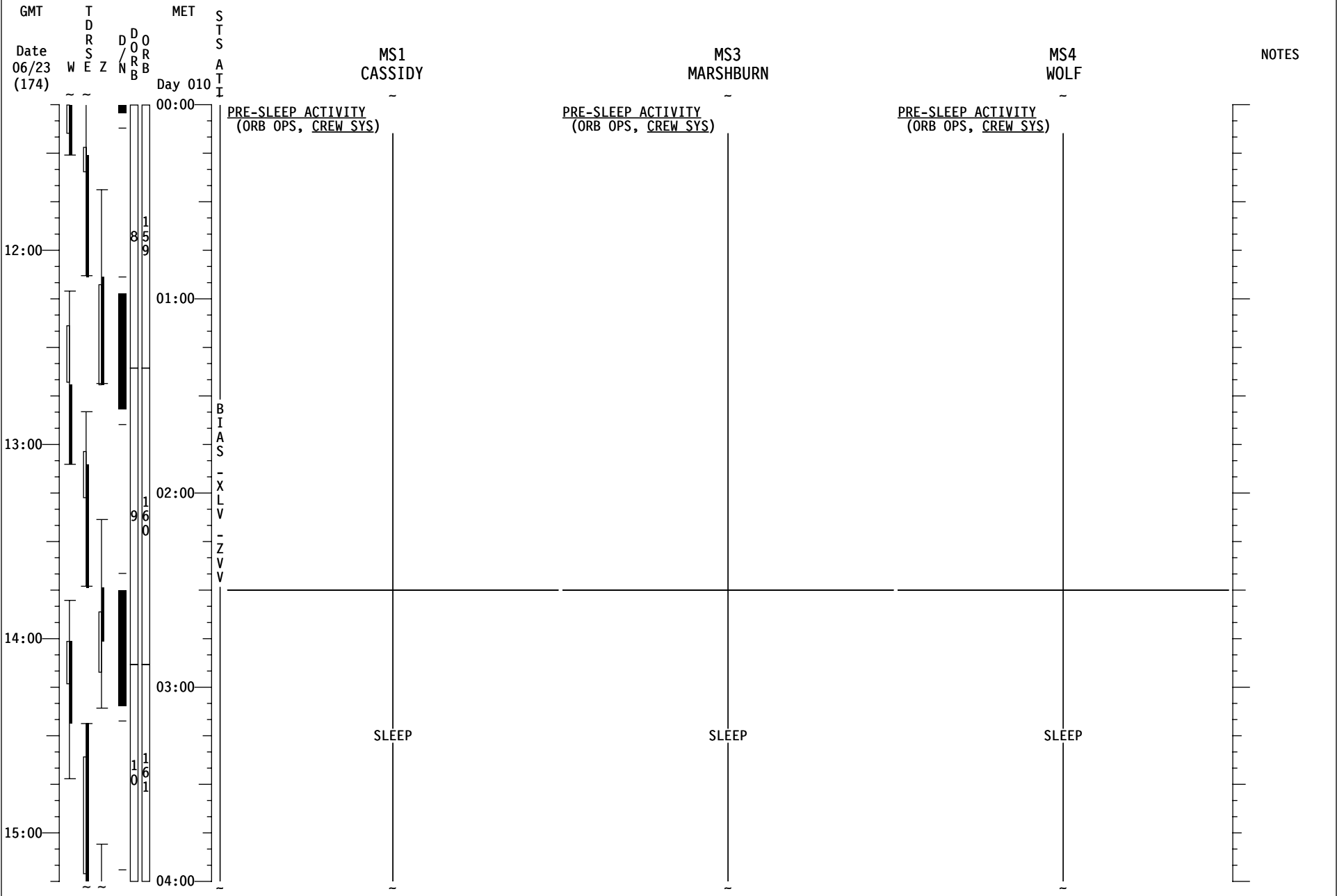
STS-127 FD (11)



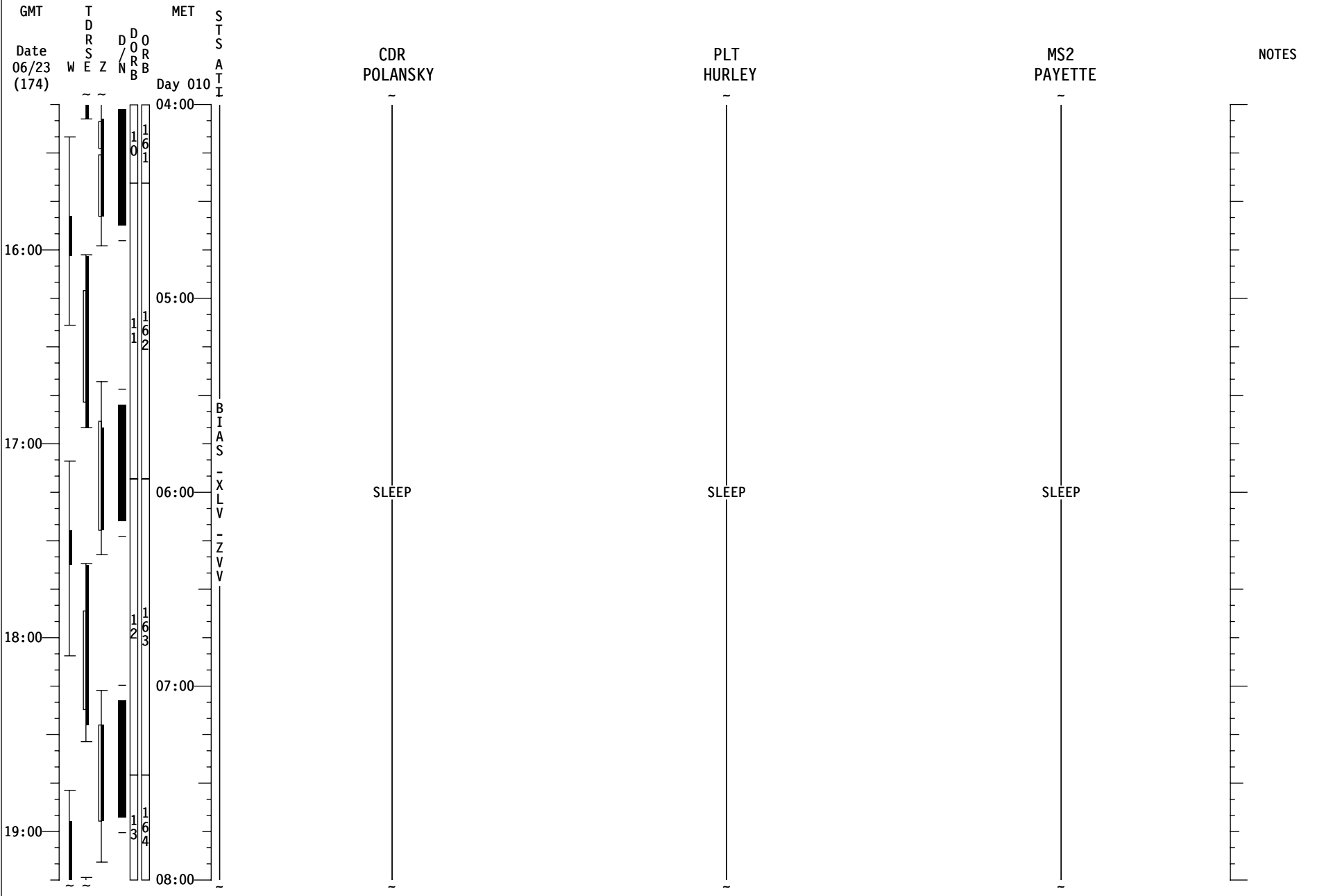
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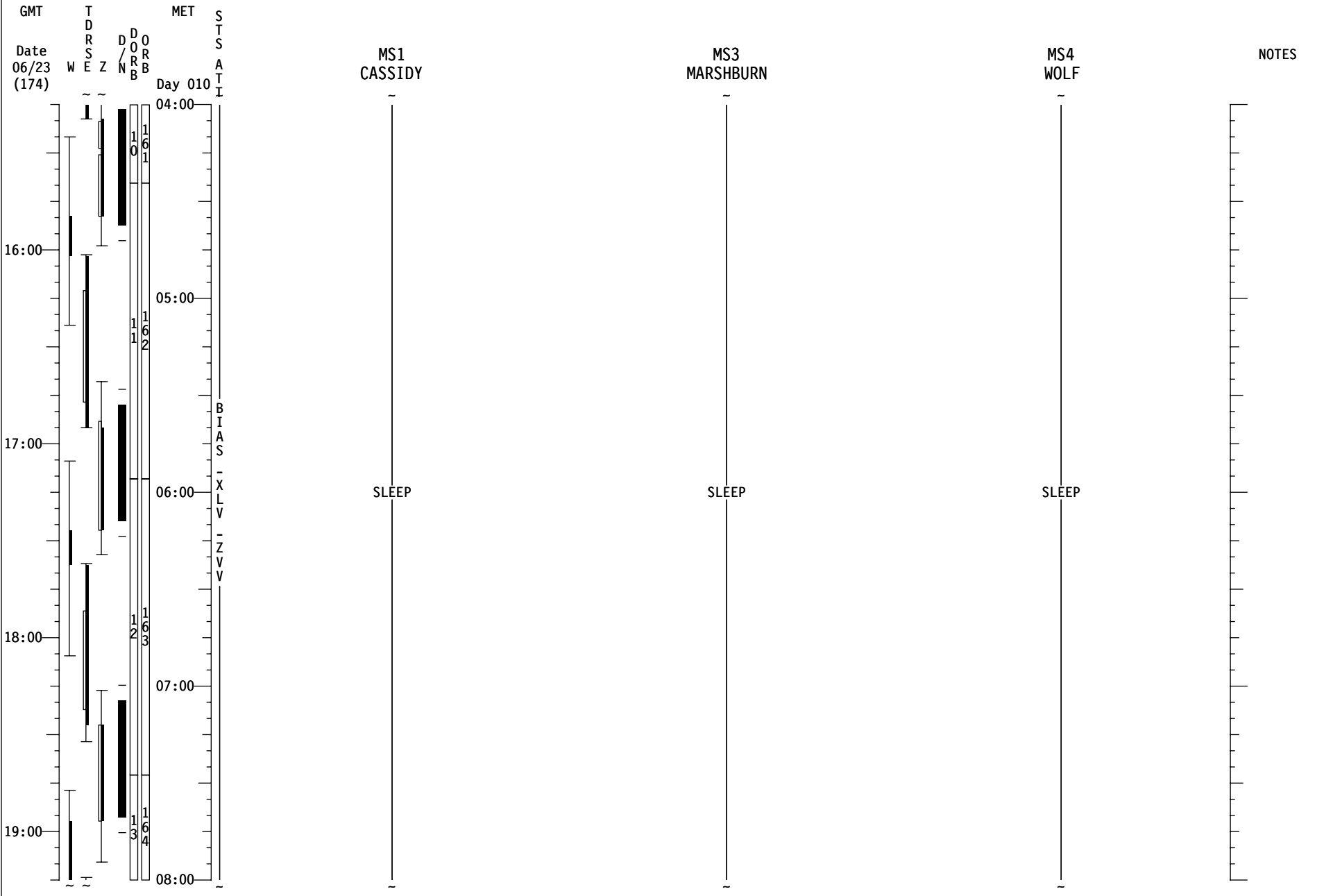
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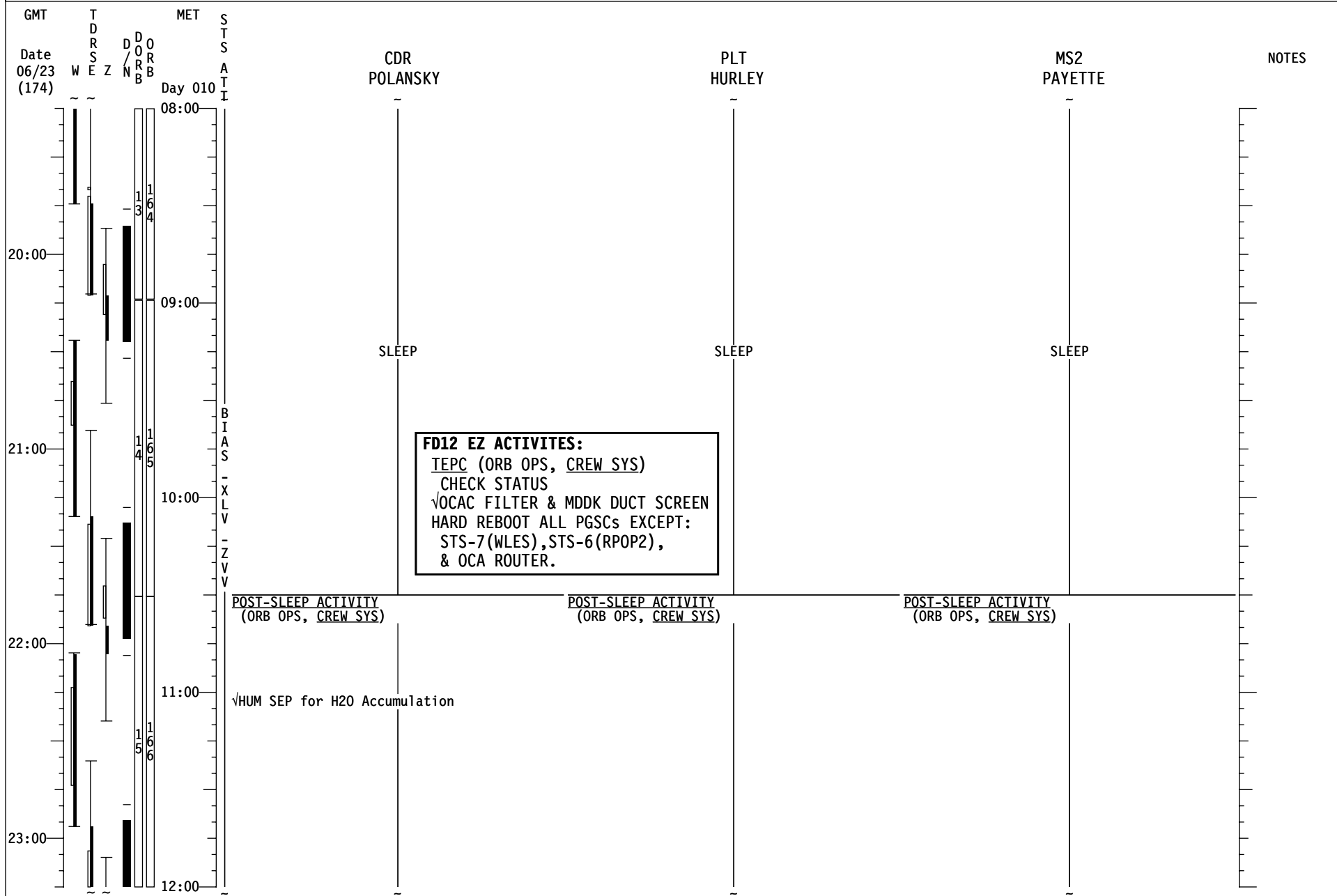
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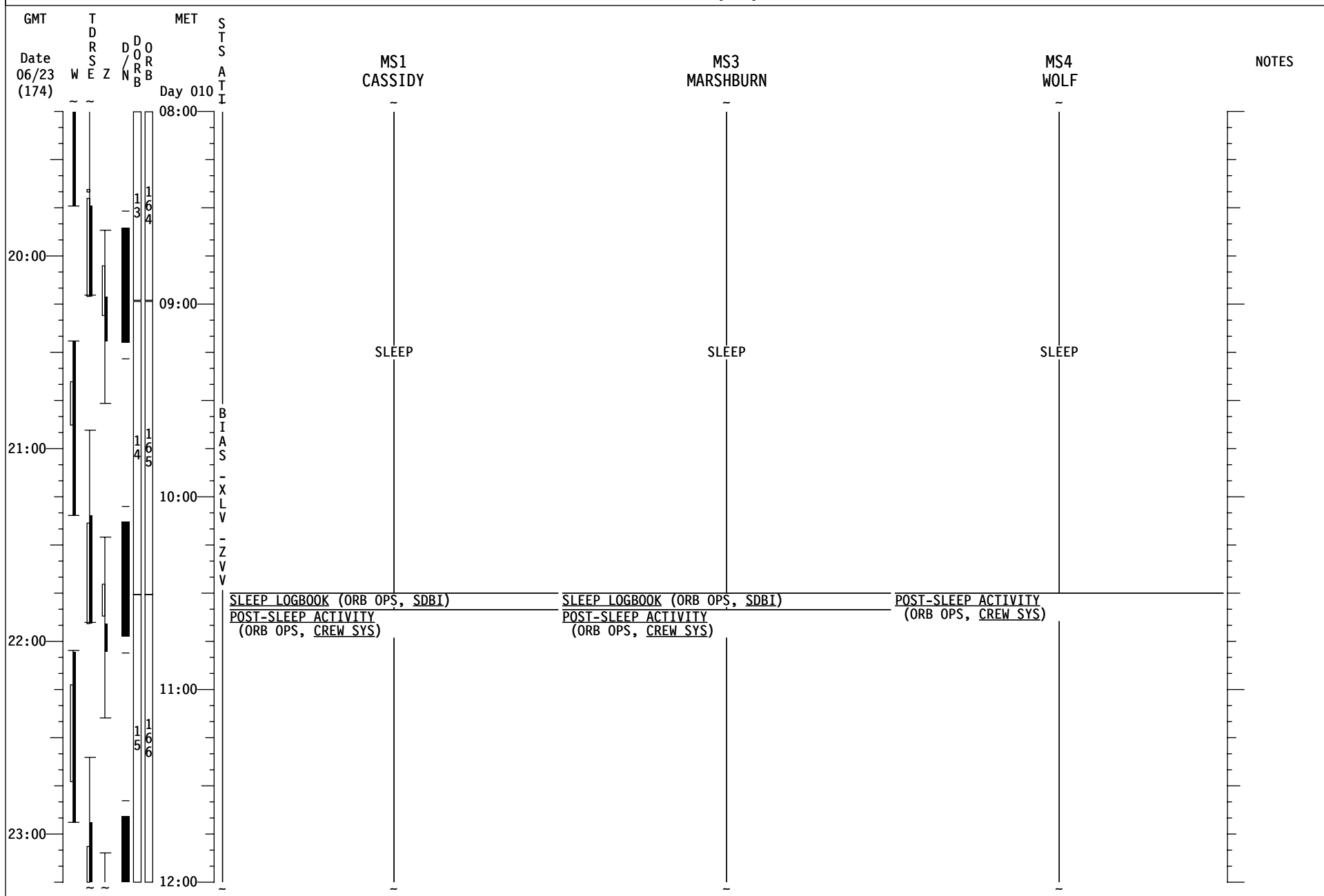
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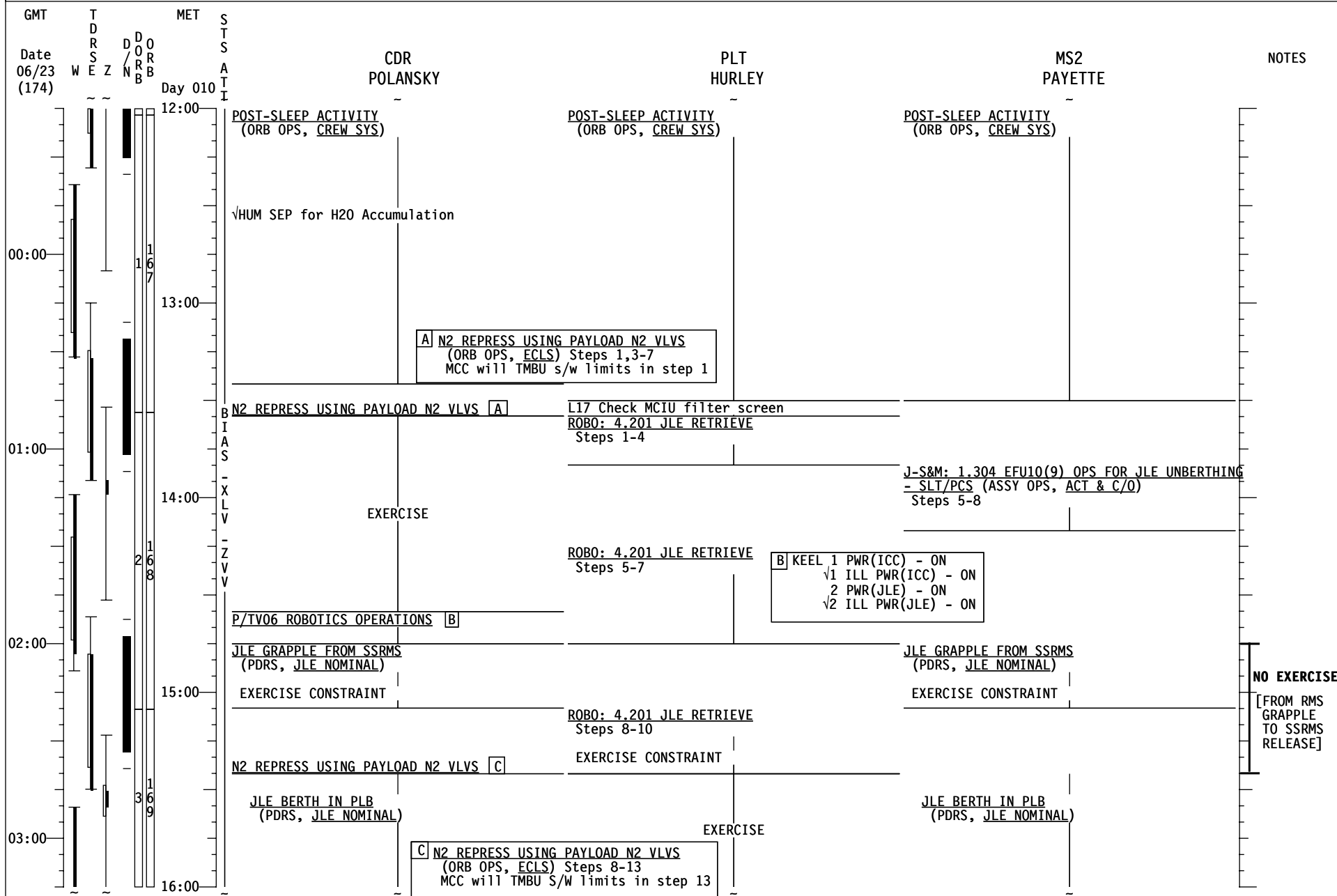
STS-127 FD (12)



STS-127 FD (12)



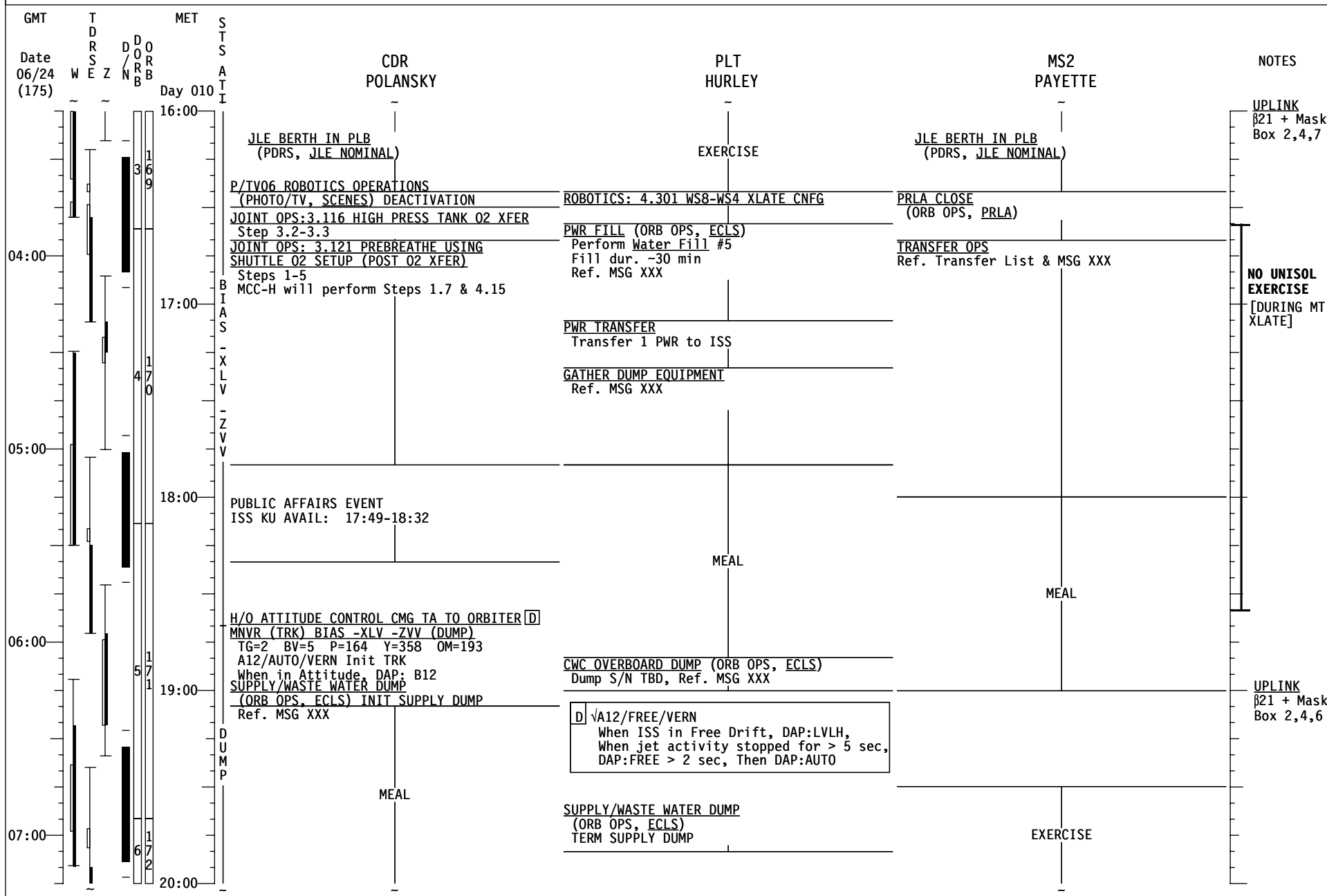
STS-127 FD (12)



STS-127 FD (12)

GMT	TDRS W E Z	MET Day 010	S T S A T I	MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	NOTES
Date 06/23 (174)	D O R B N B	12:00	167	<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)	
				00:00	167		
		13:00					
		01:00	B I A S		<u>DAILY TRANSFER LIST UPDATE</u> Ref. Transfer List & MSG XXX	EXERCISE	
		14:00	X L V	<u>EVA 5 TOOL CONFIG</u> (EVA, TIMELINES) Ref. MSG XXX	<u>EVA 5 TOOL CONFIG</u> (EVA, TIMELINES) Ref. MSG XXX	<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	
			Z V V				
		02:00	168			<u>MDDK STATUS CHECK (ASSY OPS, P/L) Step 1</u>	
			268				
		15:00				<u>EVA 5 TOOL CONFIG</u> (EVA, TIMELINES) Ref. MSG XXX	NO EXERCISE [FROM RMS GRAPPLE TO SSRMS RELEASE]
			169			<u>EVA SYS: 1.510 METOX REGENERATION TERM</u>	
		03:00	369	<u>EMU SWAP FOR EVA 5</u> Swap EMUs btwn EDDAs	<u>EMU SWAP FOR EVA 5</u> Swap EMUs btwn EDDAs	<u>SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS)</u> Perform EQUIP PREP & WATER TRANSFER HOSE PURGE	
		16:00					

STS-127 FD (12)



STS-127 FD (12)

GMT	TDRSZ W E Z	MET Day 010	S T S A T I	MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	NOTES
Date 06/24 (175)	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 5px;">D O R B</div> <div style="margin-bottom: 5px;">3 6 9</div> <div style="margin-bottom: 5px;">4 7 0</div> <div style="margin-bottom: 5px;">5 7 1</div> <div style="margin-bottom: 5px;">6 7 2</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 5px;">16:00</div> <div style="margin-bottom: 5px;">17:00</div> <div style="margin-bottom: 5px;">18:00</div> <div style="margin-bottom: 5px;">19:00</div> <div style="margin-bottom: 5px;">20:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 5px;">B I A S</div> <div style="margin-bottom: 5px;">- X L V</div> <div style="margin-bottom: 5px;">- Z V V</div> <div style="margin-bottom: 5px;">D U M P</div> </div>	<u>EVA SYS: 1.515 EMU METOX/LIOH/BATTERY REPLACEMENT</u> Install METOX Canisters Ref: 127 EMU CICC	<u>EVA SYS: 1.515 EMU METOX/LIOH/BATTERY REPLACEMENT</u> Install METOX Canisters Ref: 127 EMU CICC	<u>SHUTTLE/ISS H2O CNTR FILL</u> (ORB OPS, ECLS) Perform EQUIP PREP & WATER TRANSFER HOSE PURGE <u>SHUTTLE/ISS H2O CNTR FILL</u> (ORB OPS, ECLS) Init Fill #1, Ref. MSG XXX	NO UNISOL EXERCISE [DURING MT XLATE]
				<u>EVA SYS: 1.305 EQUIPMENT LK PREP</u> Steps 1-3 not req'd Ref: 127 EMU CICC	<u>EVA SYS: 1.305 EQUIPMENT LK PREP</u> Steps 1-3 not req'd Ref: 127 EMU CICC	<u>TRANSFER OPS</u> Ref. Transfer List & MSG XXX	
						<u>SHUTTLE/ISS H2O CNTR FILL</u> (ORB OPS, ECLS) FILL TERM	
					MEAL	<u>CWC TRANSFER</u> Transfer 1 CWC to ISS	
				MEAL			
				MEAL	EXERCISE	<u>TRANSFER OPS</u> Ref. Transfer List & MSG XXX	
				EXERCISE	<u>TRANSFER OPS</u> Ref. Transfer List & MSG XXX		

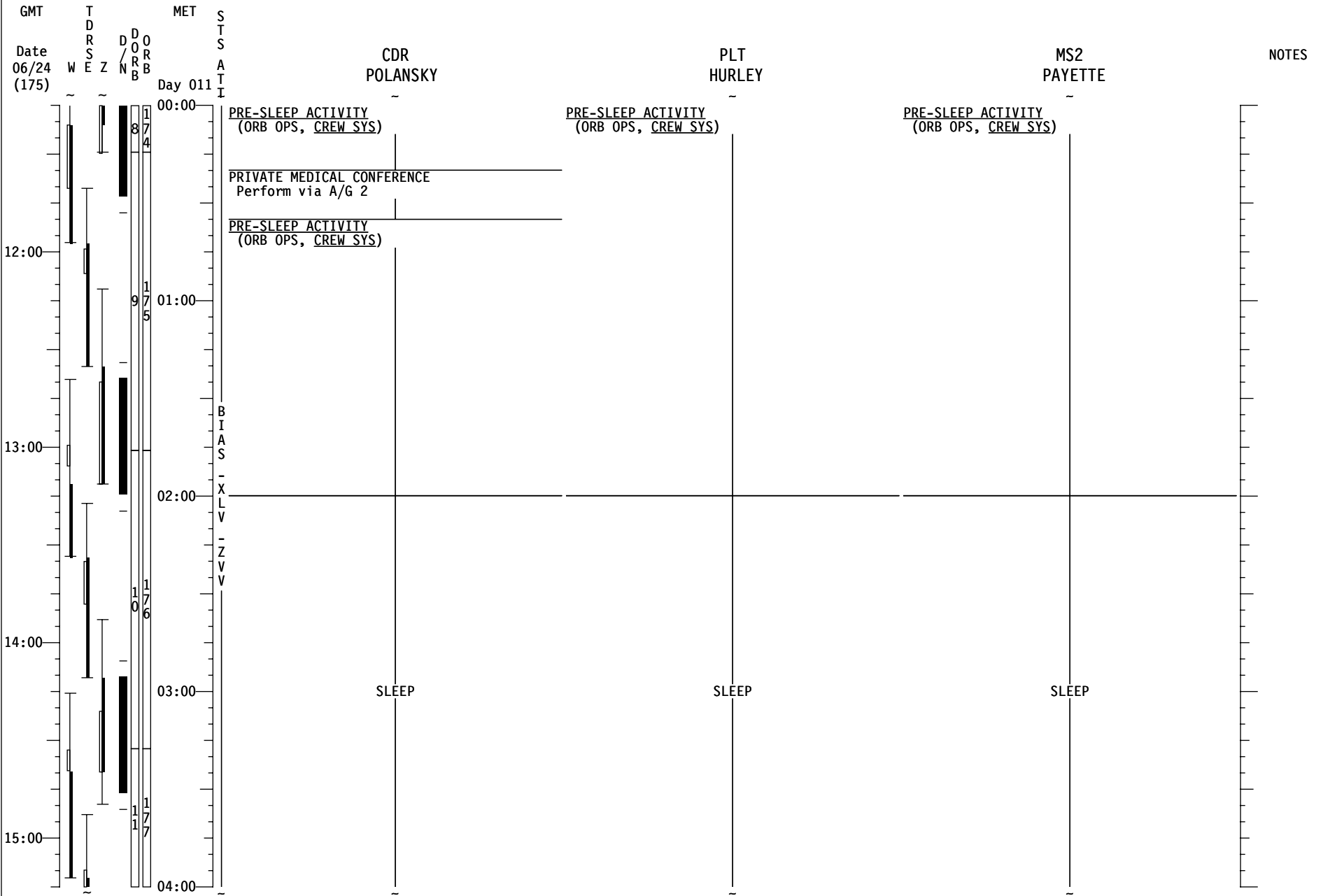
STS-127 FD (12)

GMT	T D R S E Z W E Z	D O R B D O R B	MET Day 010	S T S A T T I	CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
			20:00		MEAL	CWC OVERBOARD DUMP (ORB OPS, ECLS) TERM DUMP, Ref. MSG XXX When supply & CWC dumps complete: PWR DUMP - SUPPLY LINE (ORB OPS, ECLS) Ref. MSG XXX Dump dur. ~30 min	EXERCISE	
08:00		172			MNVR (TRK) BIAS -XLV -ZVV TG=2 BV=5 P=164 Y=358 OM=188 A12/AUTO/VERN Init TRK	IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)		
			21:00		CREW CONFERENCE ISS KU AVAIL: 20:42-21:35	CREW CONFERENCE ISS KU AVAIL: 20:42-21:35	CREW CONFERENCE ISS KU AVAIL: 20:42-21:35	
09:00					CREW PHOTO	CREW PHOTO	CREW PHOTO	
		173	22:00		EVA 5 PROCEDURE REVIEW Ref: 127 EVA 5 BRIEFING CARD (EVA, TIMELINES)	EVA 5 PROCEDURE REVIEW Ref: 127 EVA 5 BRIEFING CARD (EVA, TIMELINES)	EVA 5 PROCEDURE REVIEW Ref: 127 EVA 5 BRIEFING CARD (EVA, TIMELINES)	
					When ISS is GO for attitude cntrl,DAP:FREE EVA 5 PROCEDURE REVIEW Ref: 127 EVA 5 BRIEFING CARD (EVA, TIMELINES)			
10:00					LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS) PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS) PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS) PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
		174	23:00					
11:00								
		8	00:00					

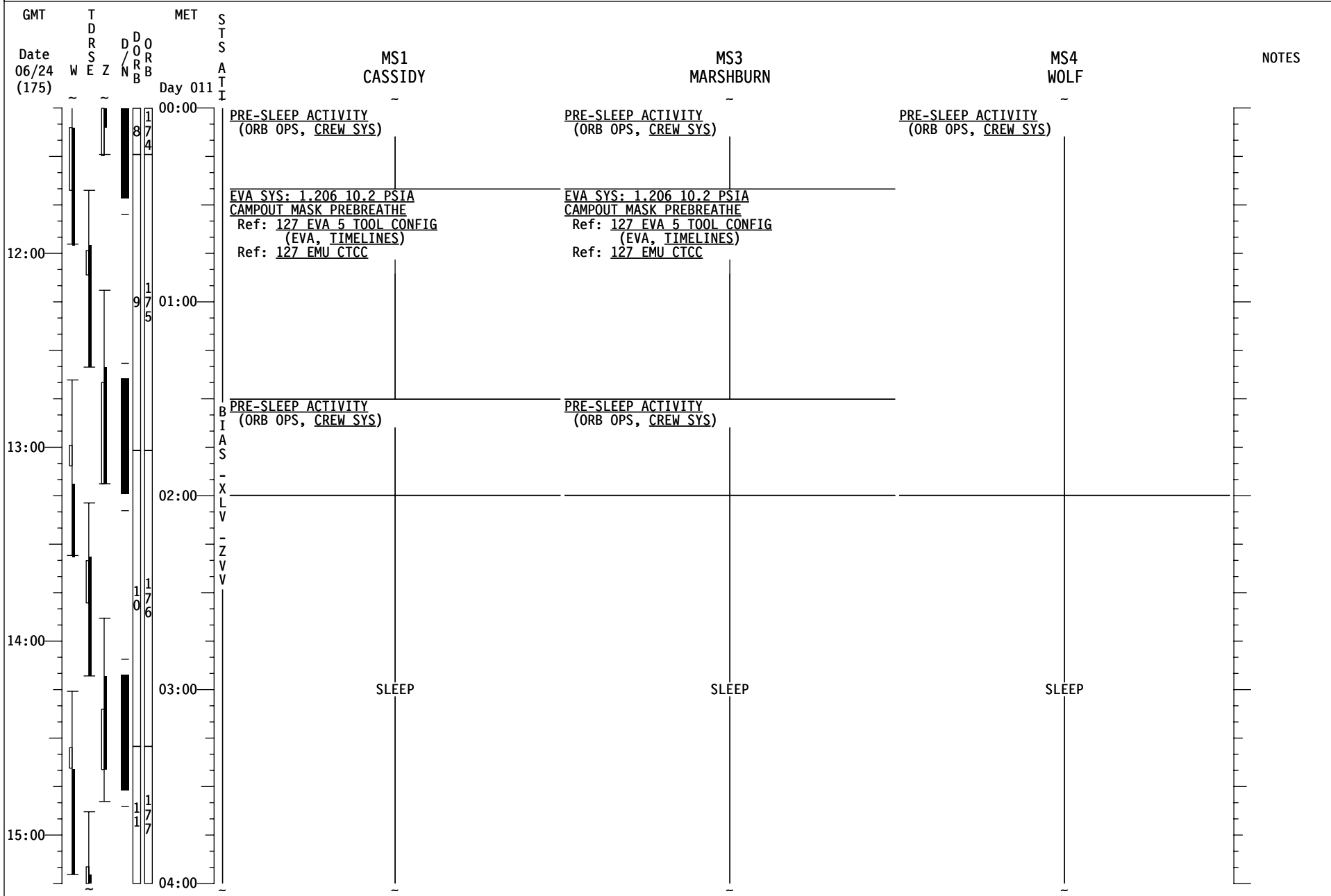
STS-127 FD (12)

GMT	T D R S E Z W E Z	MET Day 010	S T S A T T I	MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	NOTES
Date 06/24 (175)	D O R B D O R B N	20:00	D U M P		<u>TRANSFER OPS</u> Ref. Transfer List & MSG XXX	<u>TRANSFER OPS</u> Ref. Transfer List & MSG XXX	
					<u>TRANSFER TAGUP</u> Coordinate with xfer counterpart	<u>TRANSFER TAGUP</u> Coordinate with xfer counterpart	
08:00					<u>TRANSFER BRIEF</u> Call down status to MCC		
					<u>LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)</u>		
		21:00		CREW CONFERENCE ISS KU AVAIL: 20:42-21:35	CREW CONFERENCE ISS KU AVAIL: 20:42-21:35	CREW CONFERENCE ISS KU AVAIL: 20:42-21:35	
09:00				CREW PHOTO	CREW PHOTO	CREW PHOTO	
		22:00	B I A S	<u>EVA 5 PROCEDURE REVIEW</u> Ref: 127 EVA 5 BRIEFING CARD (EVA, TIMELINES)	<u>EVA 5 PROCEDURE REVIEW</u> Ref: 127 EVA 5 BRIEFING CARD (EVA, TIMELINES)	<u>EVA 5 PROCEDURE REVIEW</u> Ref: 127 EVA 5 BRIEFING CARD (EVA, TIMELINES)	
			- X L V				
10:00			- Z V V				
		23:00		<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>MDDK STATUS CHECK (ASSY OPS, P/L) Step 1</u> <u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	
11:00							
		00:00					

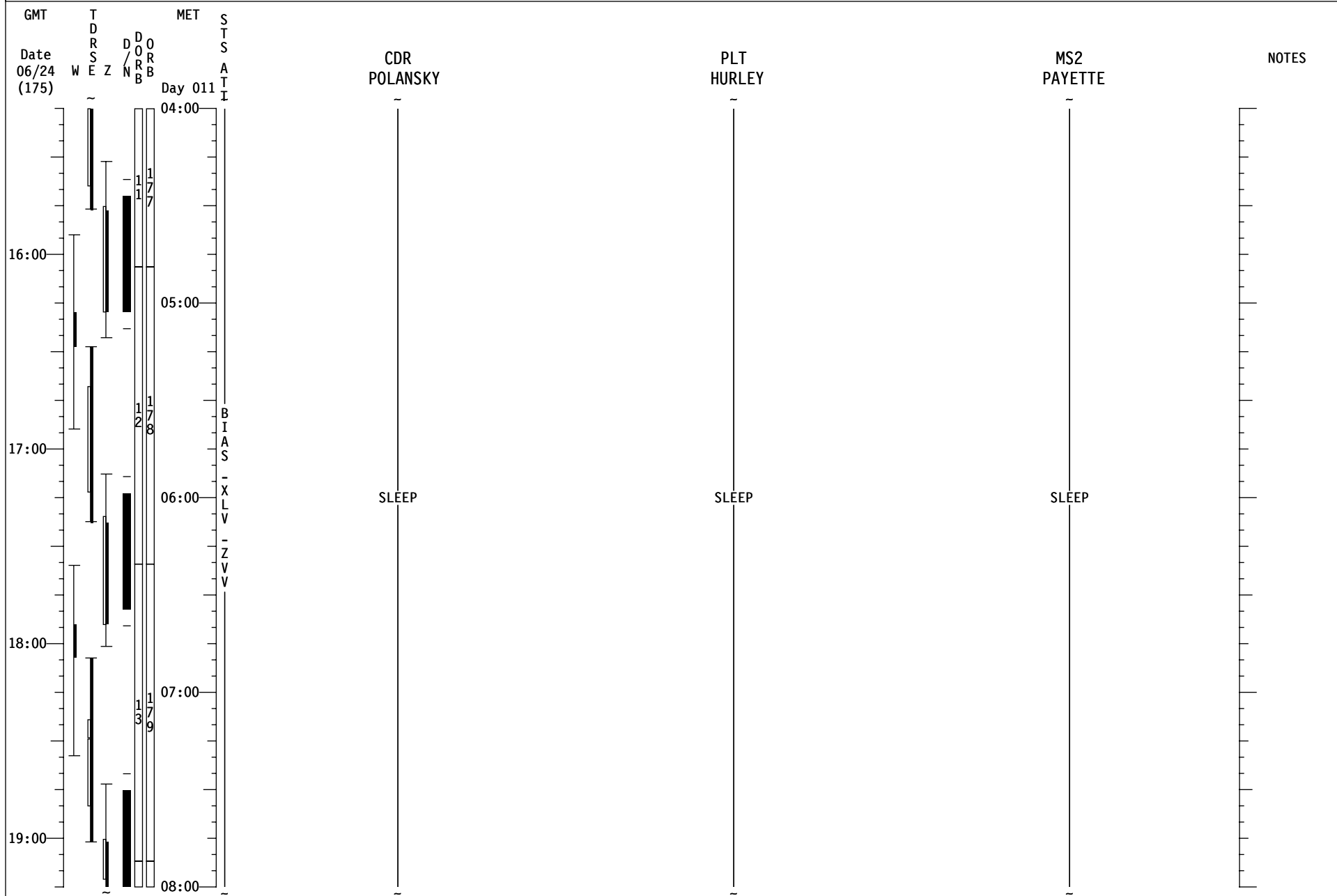
STS-127 FD (12)



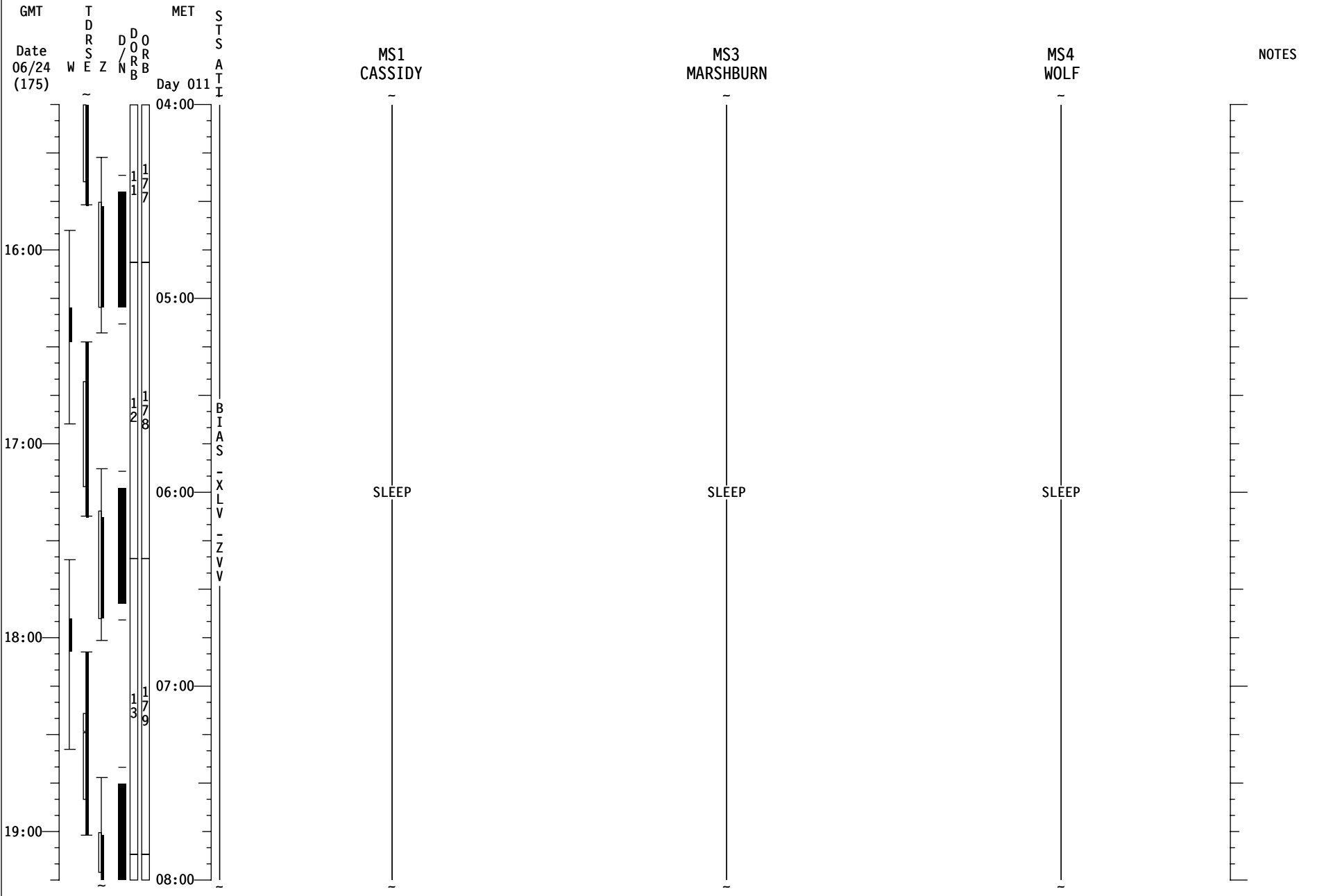
STS-127 FD (12)



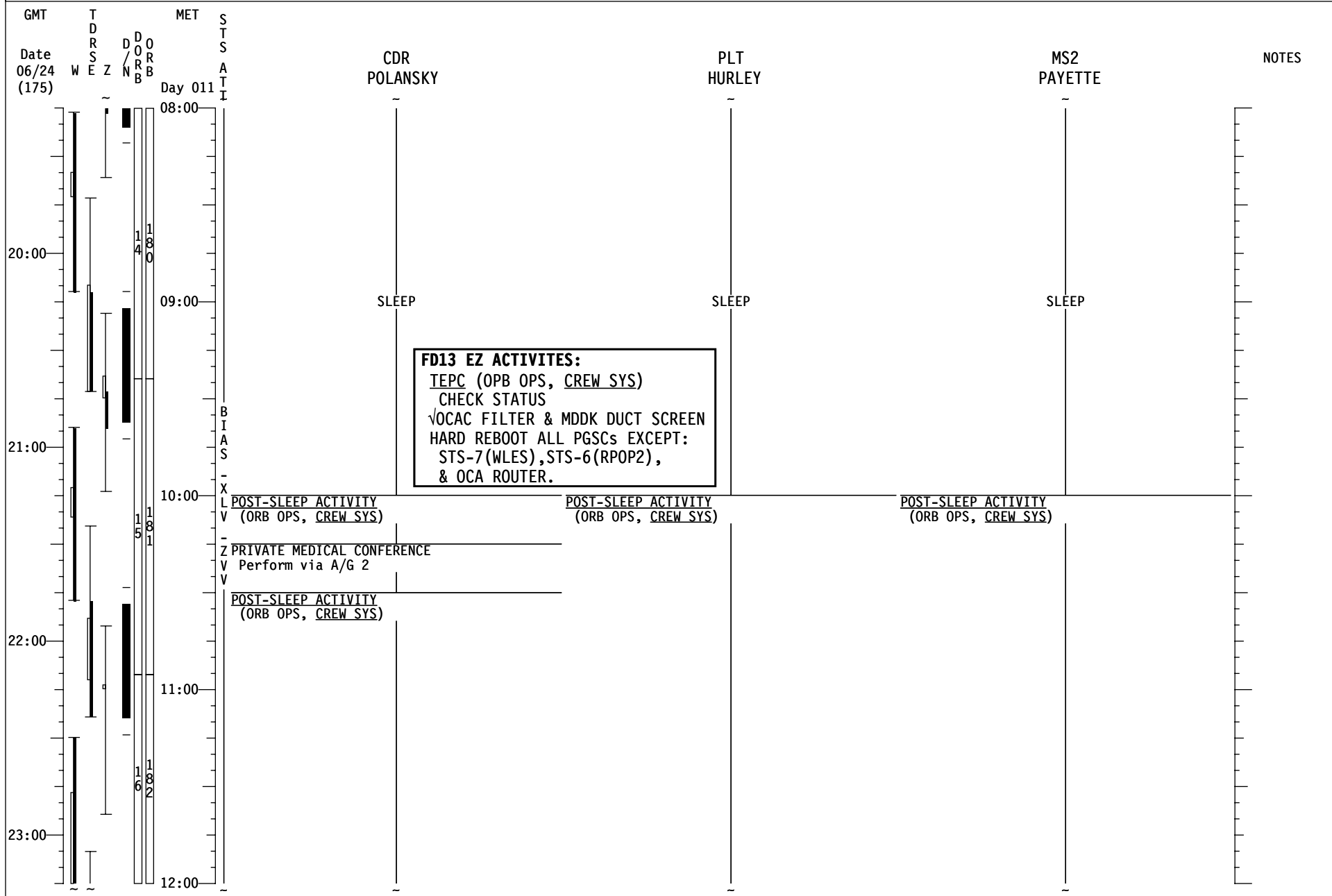
STS-127 FD (12)



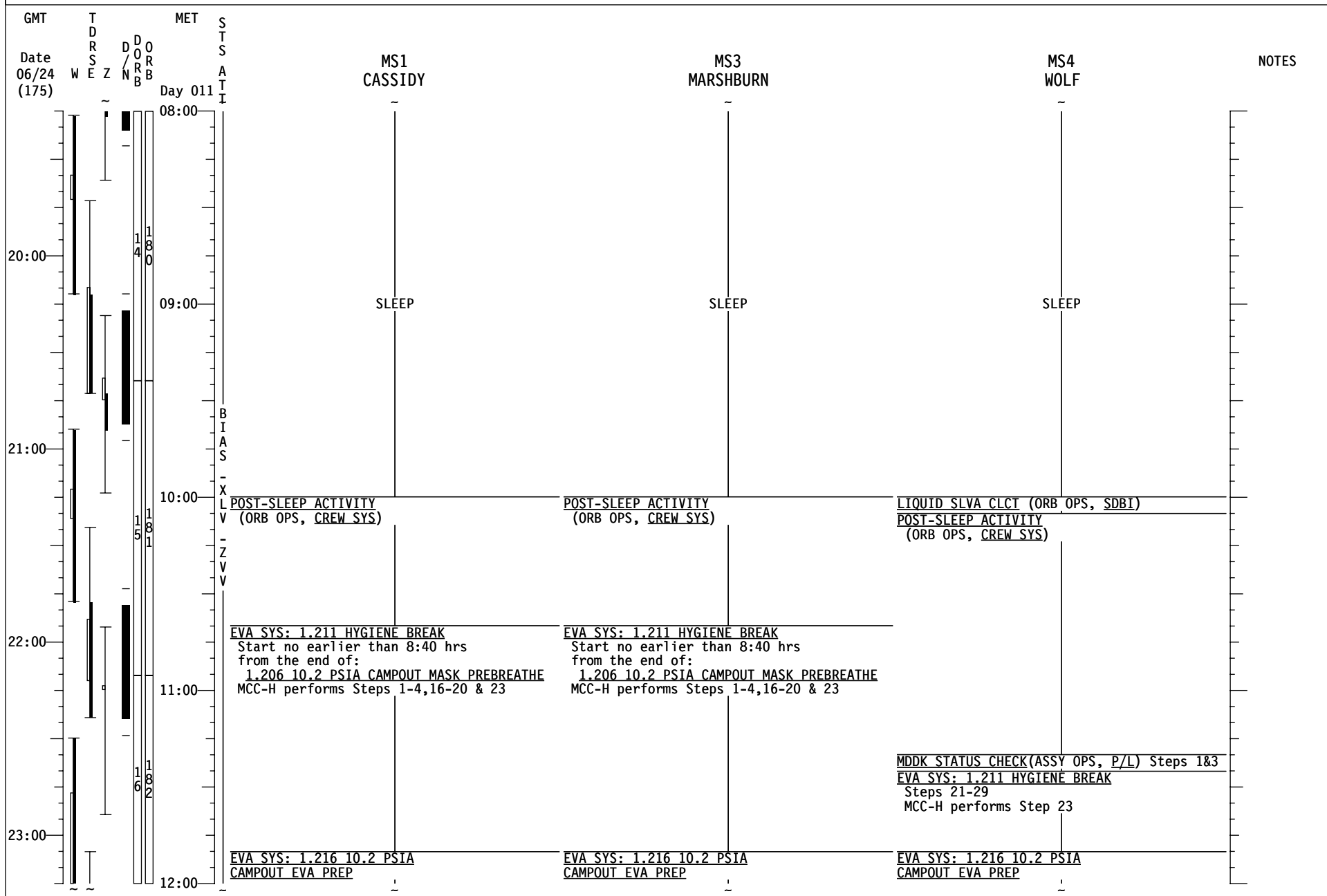
STS-127 FD (12)



STS-127 FD (13)



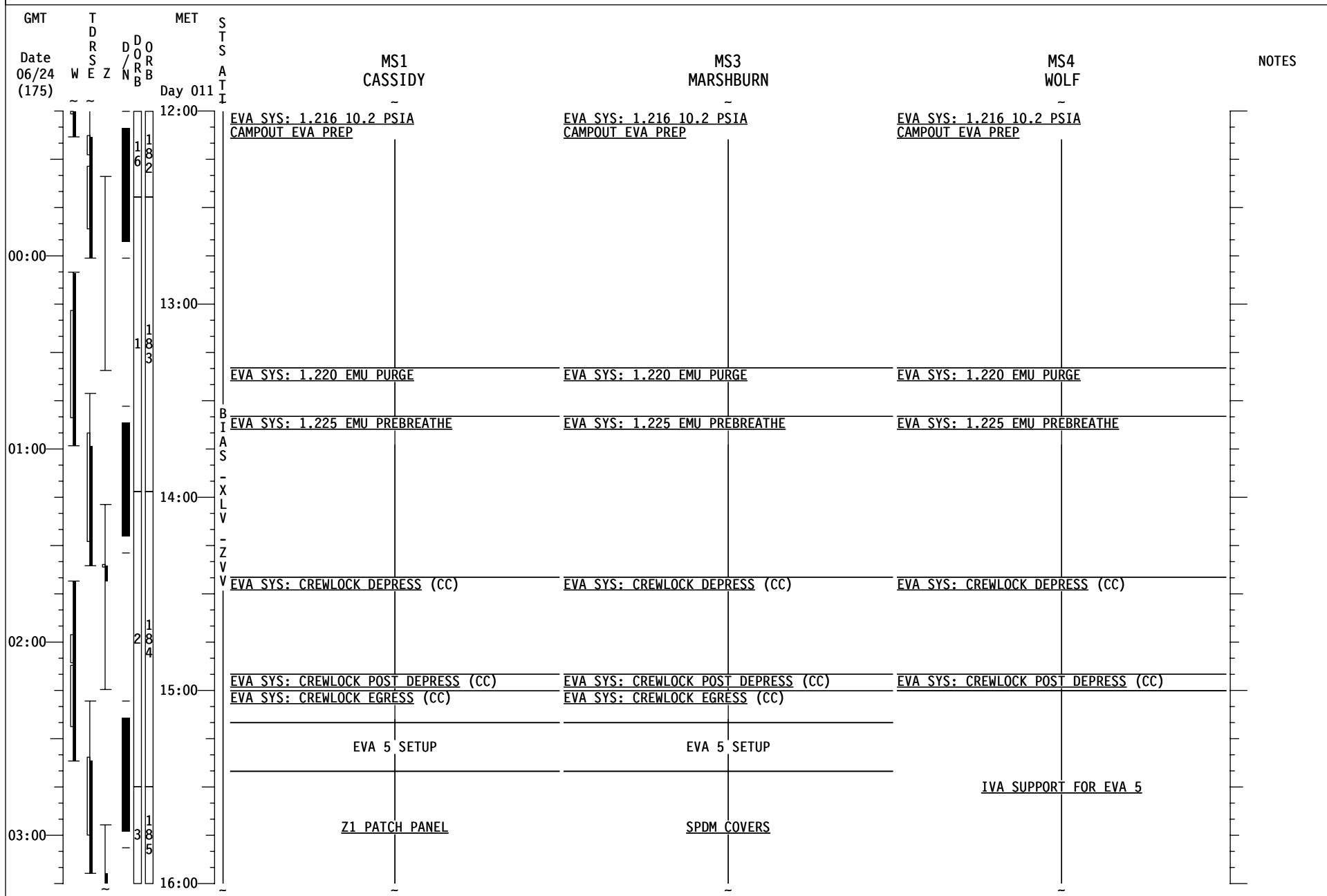
STS-127 FD (13)



STS-127 FD (13)

GMT	T D R S E Z	D O R B	MET	S T S	CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
Date 06/24 (175)	W	N	Day 011	A T I				
12:00		182			POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
00:00		183			EVA 5 INHIBIT PAD (EVA, TIMELINES)			
		183			IMU STAR OF OPPTY ALIGN (ORB OPS, GNC) DAILY TRANSFER LIST UPDATE Ref. Transfer List & MSG XXX		FILTER CLEANING (IFM, SCHEDULED MAINTENANCE) Inspect filters and clean as necessary	
01:00				B I A S		TRANSFER OPS Ref. Transfer List & MSG XXX		
				X L V	EXERCISE		SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) Init Fill #2, Ref. MSG XXX	
02:00		184		Z V V			EXERCISE	
		284			P/TV07 EVA (PHOTO/TV, SCENES) SETUP			
15:00					P/TV07 EVA (PHOTO/TV, SCENES) OPS			
						EXERCISE	SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) FILL TERM	
03:00		185					CWC TRANSFER Transfer 1 CWC to ISS	
16:00							TRANSFER OPS Ref. Transfer List & MSG XXX	

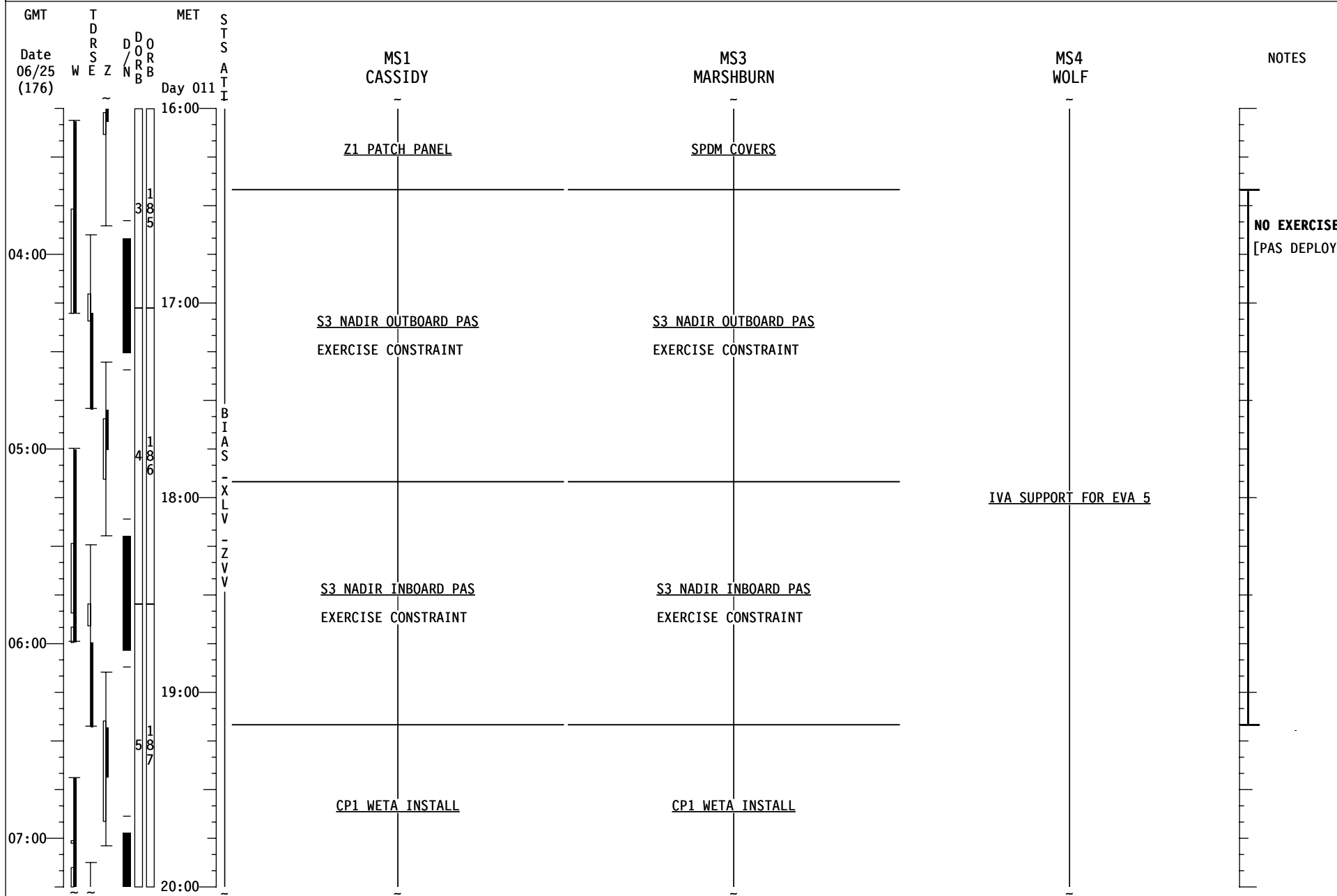
STS-127 FD (13)



STS-127 FD (13)

GMT	TDRSEZ	MET	STS	CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
Date 06/25 (176)	W E Z	Day 011	S A T I				
	DORB						
16:00				P/TV07 EVA (PHOTO/TV, SCENES) OPS	TRANSFER OPS Ref. Transfer List & MSG XXX	TRANSFER OPS Ref. Transfer List & MSG XXX	
04:00							NO EXERCISE [PAS DEPLOY]
05:00							
06:00				MEAL	MEAL	MEAL	
07:00							
20:00				P/TV07 EVA (PHOTO/TV, SCENES) OPS	TRANSFER OPS Ref. Transfer List & MSG XXX	TRANSFER OPS Ref. Transfer List & MSG XXX	

STS-127 FD (13)



STS-127 FD (13)

GMT	TDRS W E Z	MET Day 011	S T S A T I	CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
Date 06/25 (176)							
08:00							
09:00							
10:00							
11:00							
00:00							

P/TV07 EVA
(PHOTO/TV, SCENES) OPS

TRANSFER OPS
Ref. Transfer List & MSG XXX

TRANSFER OPS
Ref. Transfer List & MSG XXX

BIAS

X TRANSFER TAGUP
L Coordinate with xfer counterpart

TRANSFER TAGUP
Coordinate with xfer counterpart

P/TV08 EXTERNAL SURVEY
(PHOTO/TV, SCENES)
SETUP

P/TV08 EXTERNAL SURVEY
(PHOTO/TV, SCENES)
OPS

Z TRANSFER BRIEF
Call down status to MCC

V LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)

V LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)

V LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

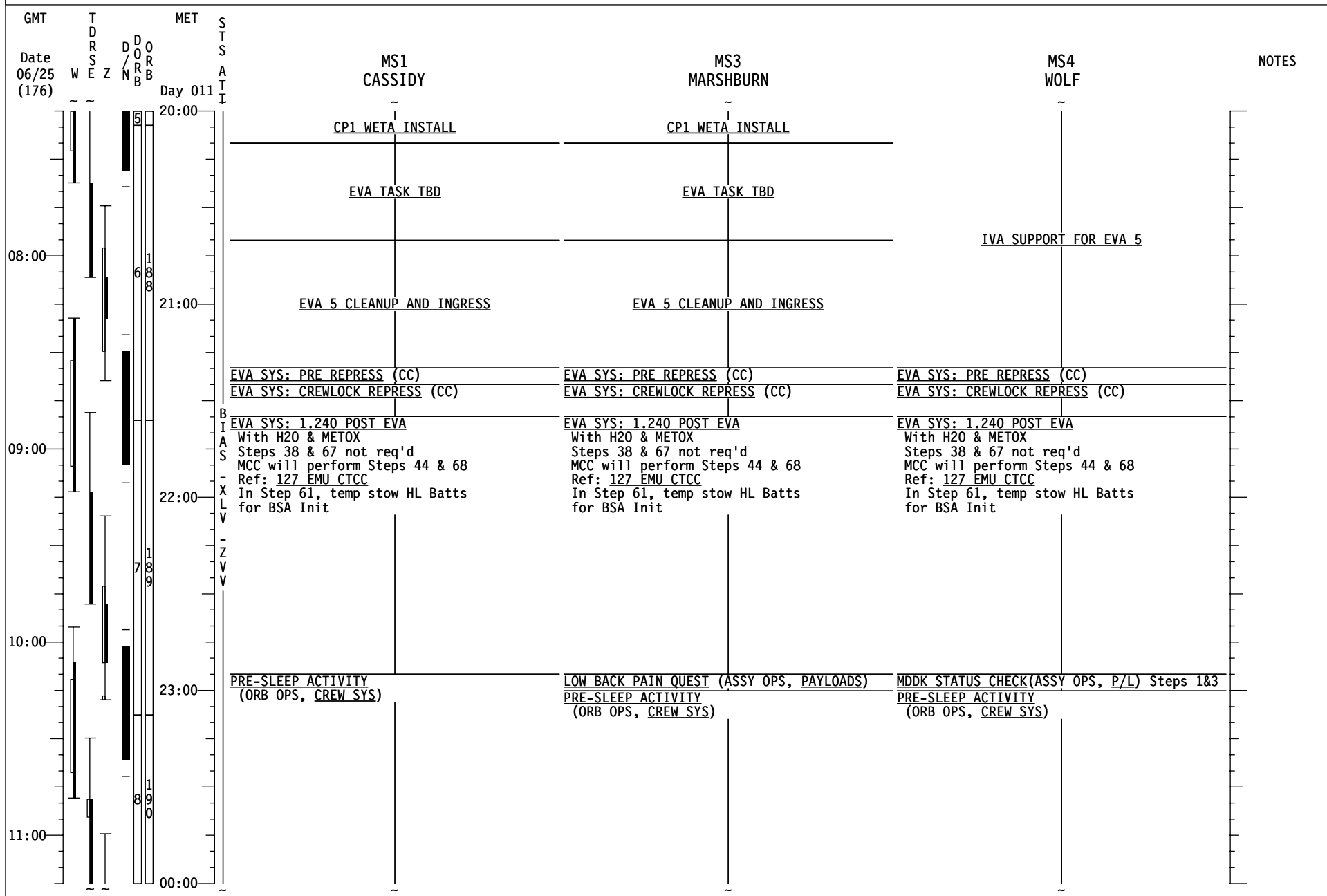
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

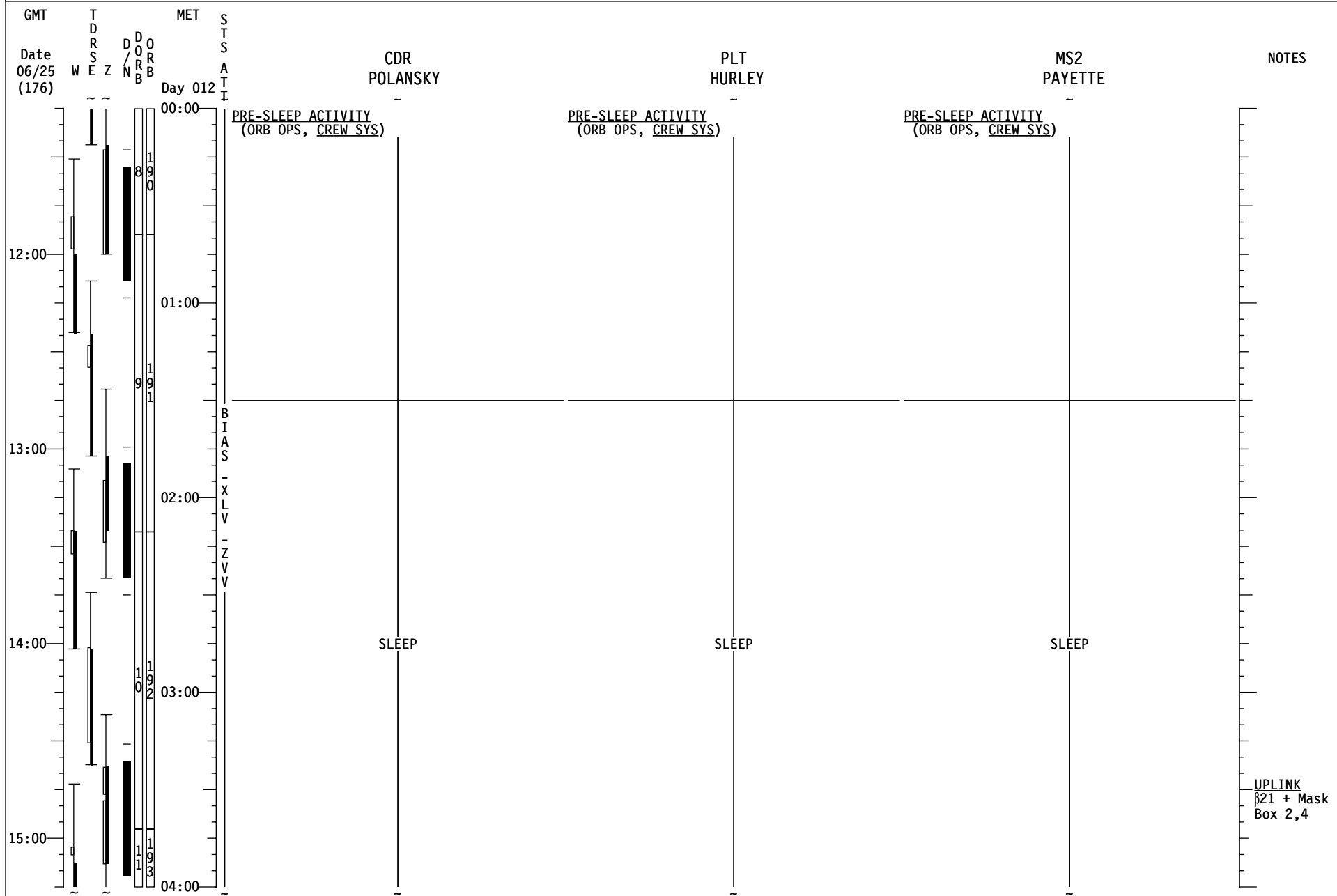
PRIVATE MEDICAL CONFERENCE
Perform via A/G 2

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

STS-127 FD (13)

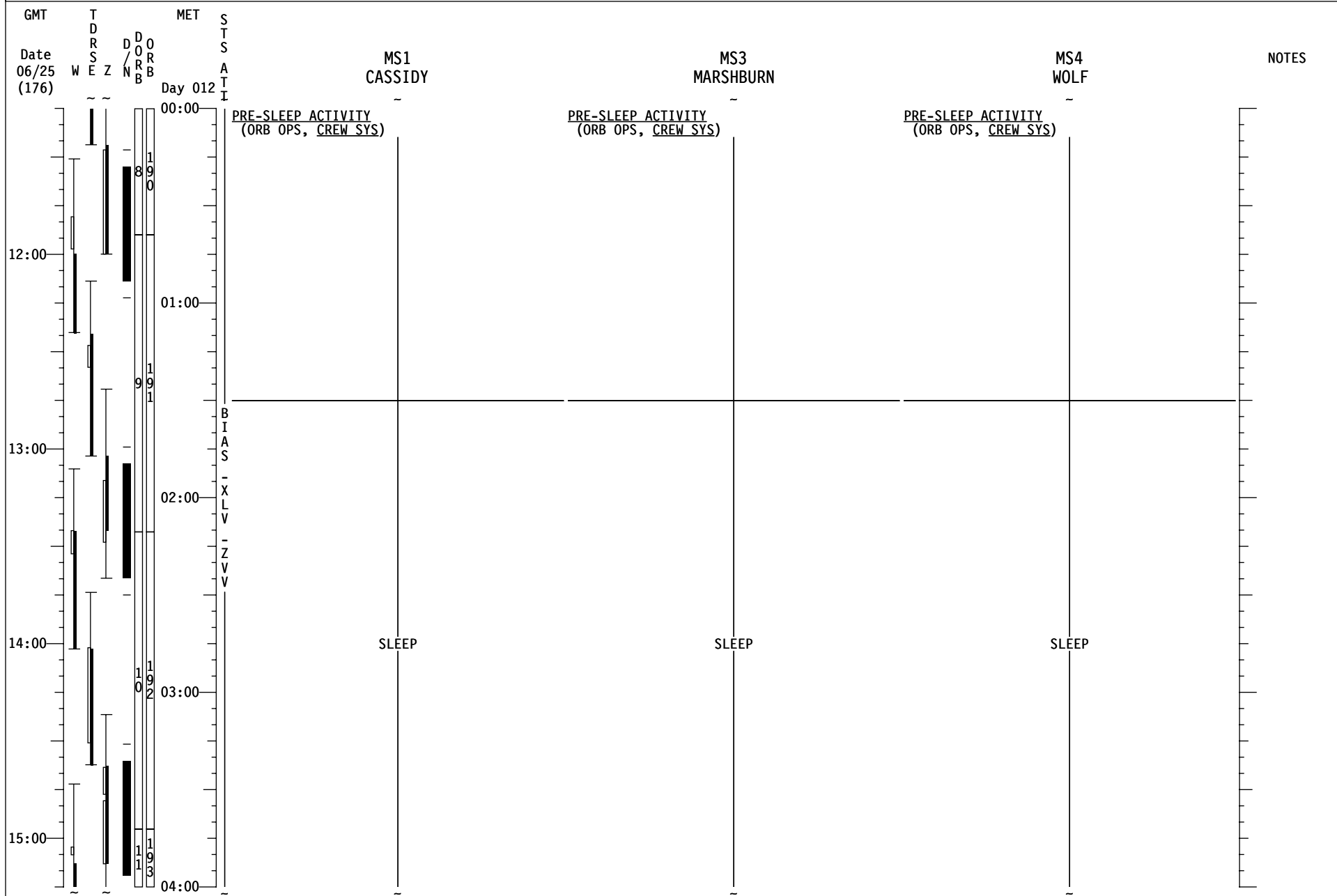


STS-127 FD (13)

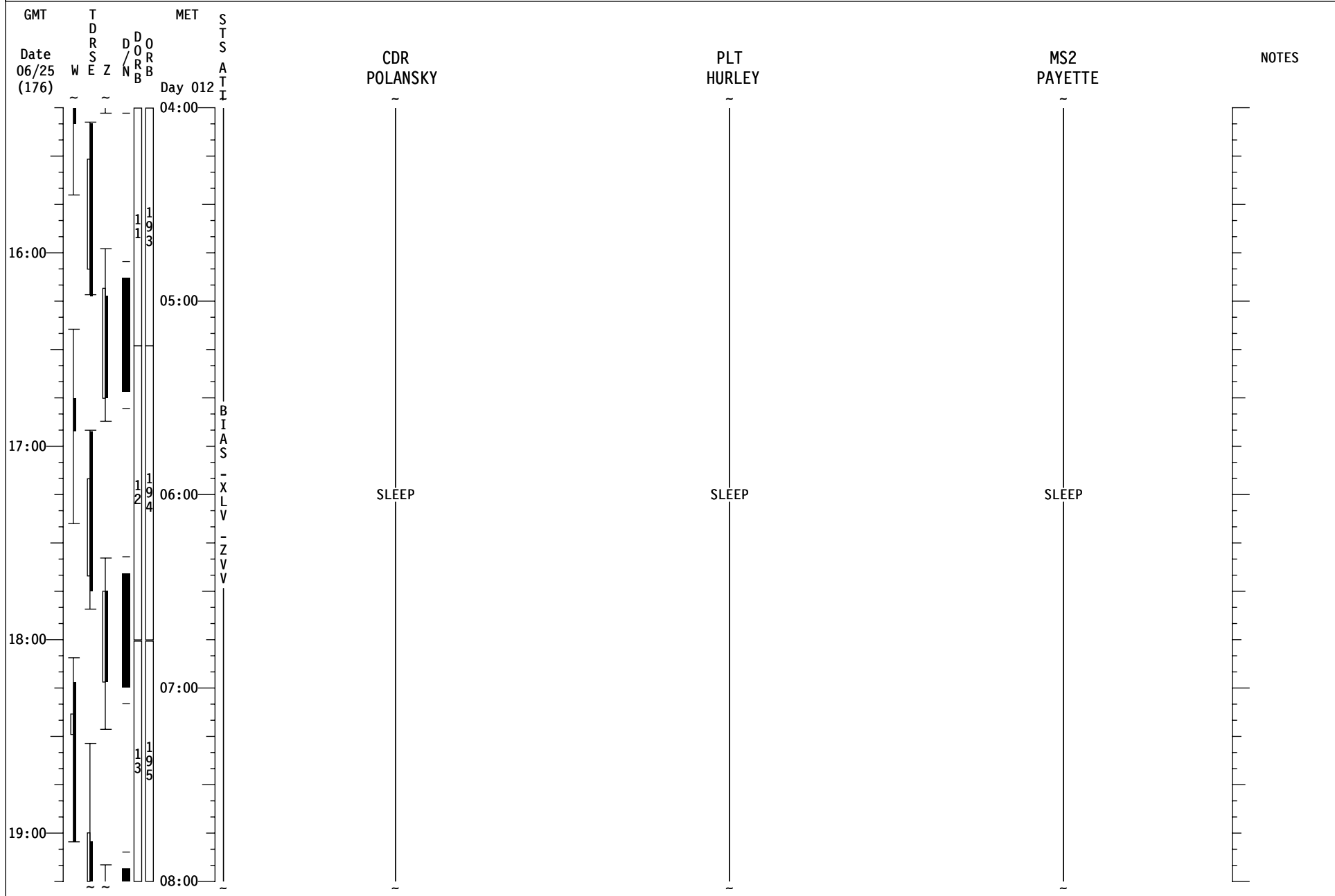


UPLINK
β21 + Mask
Box 2,4

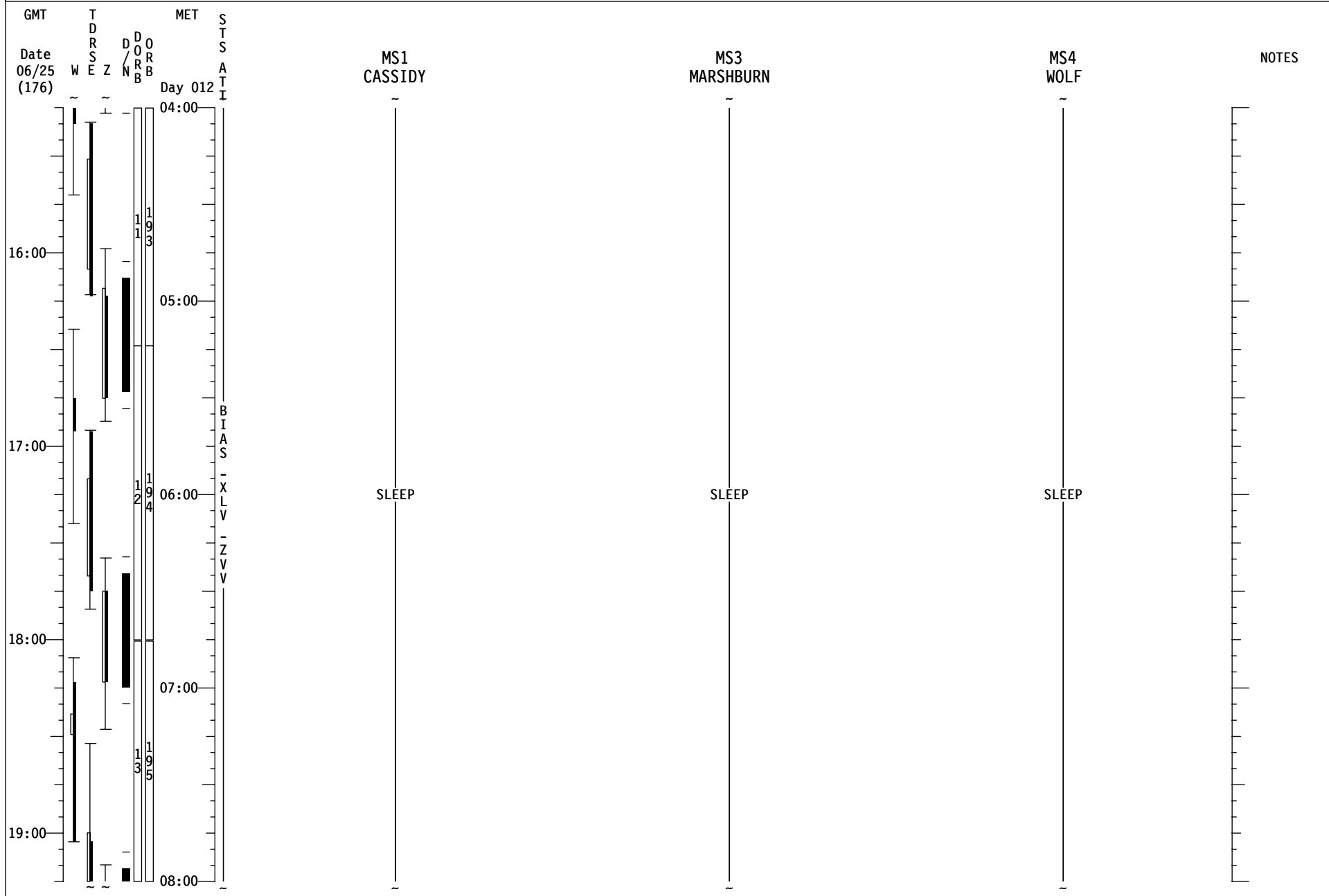
STS-127 FD (13)



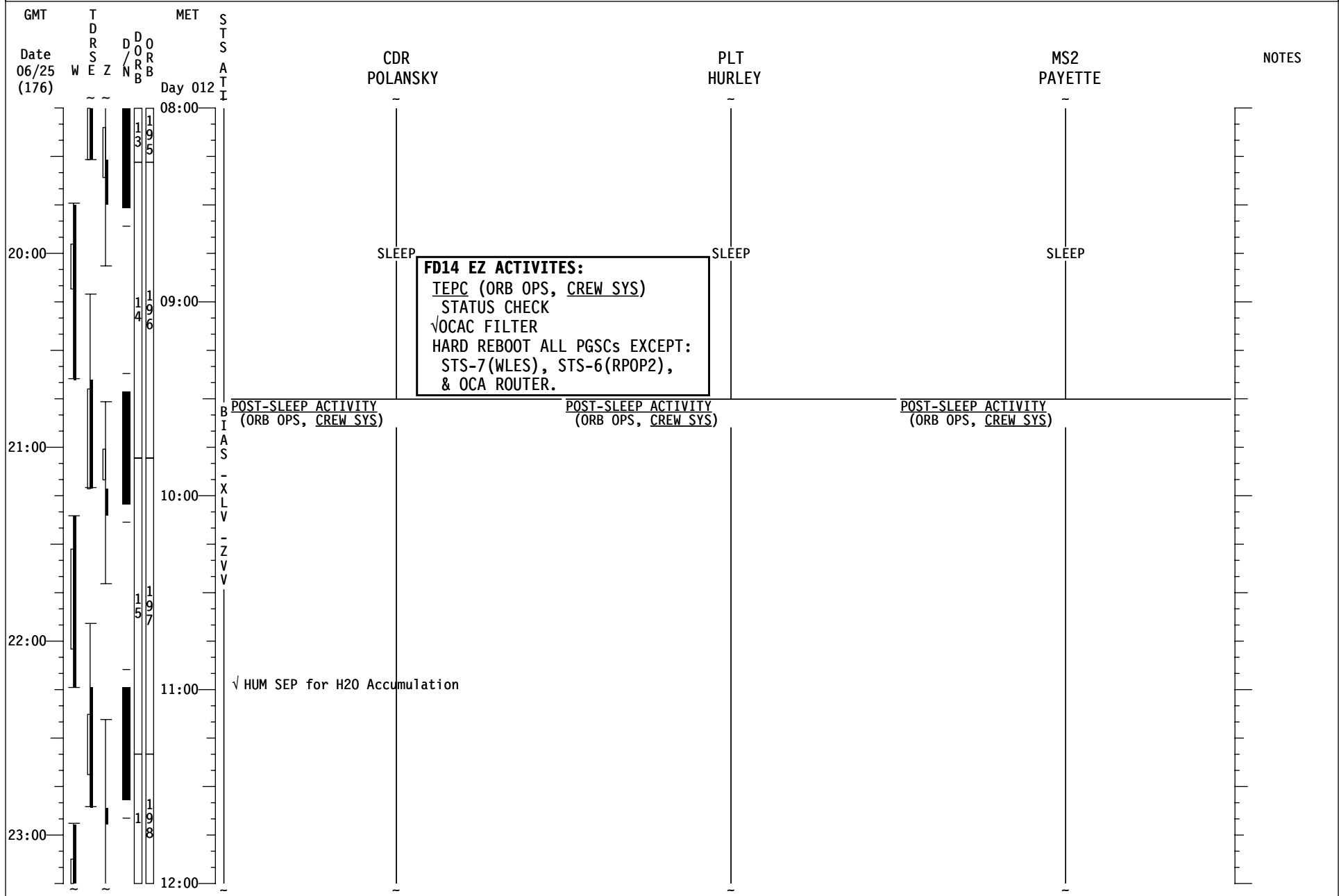
STS-127 FD (13)



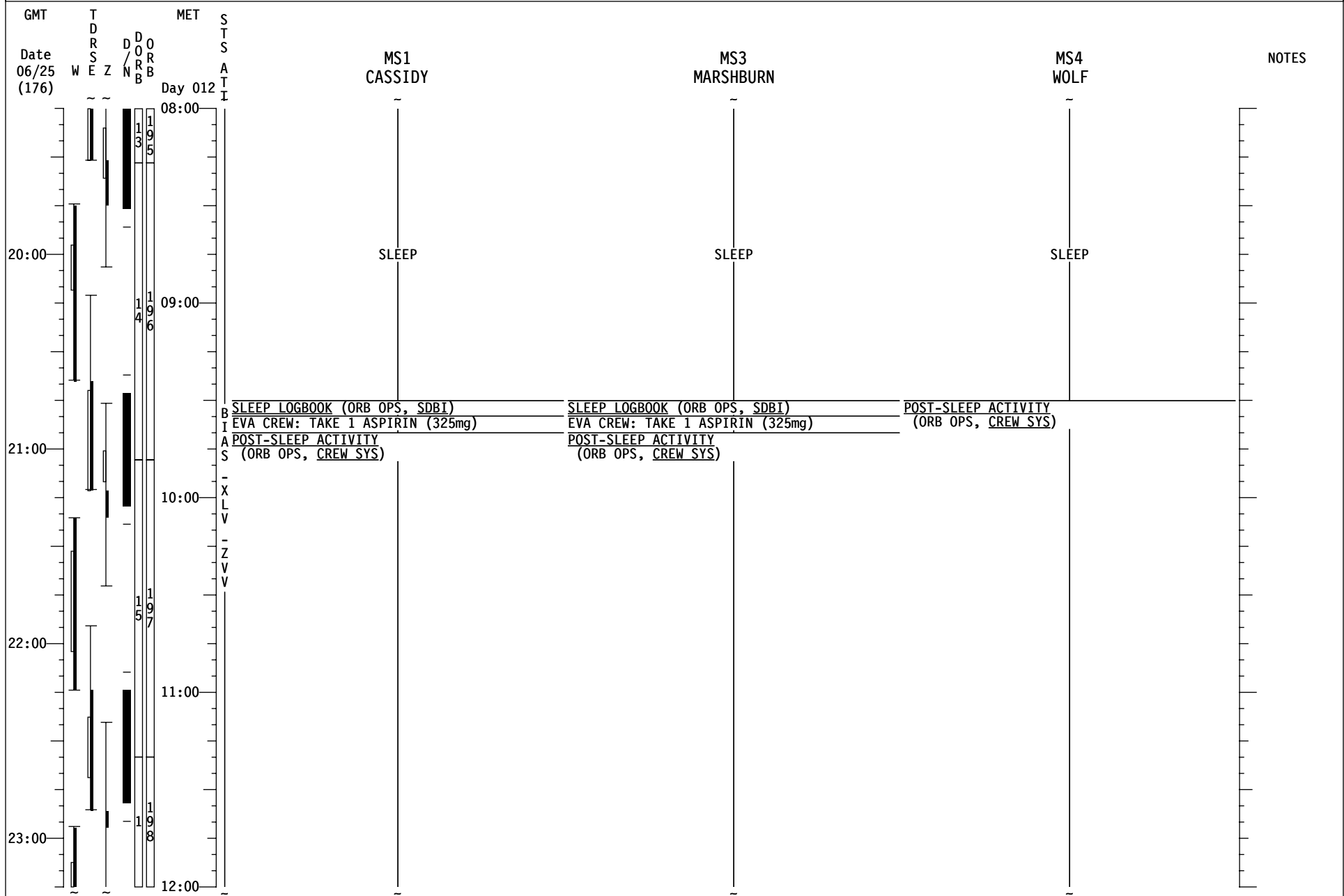
STS-127 FD (13)



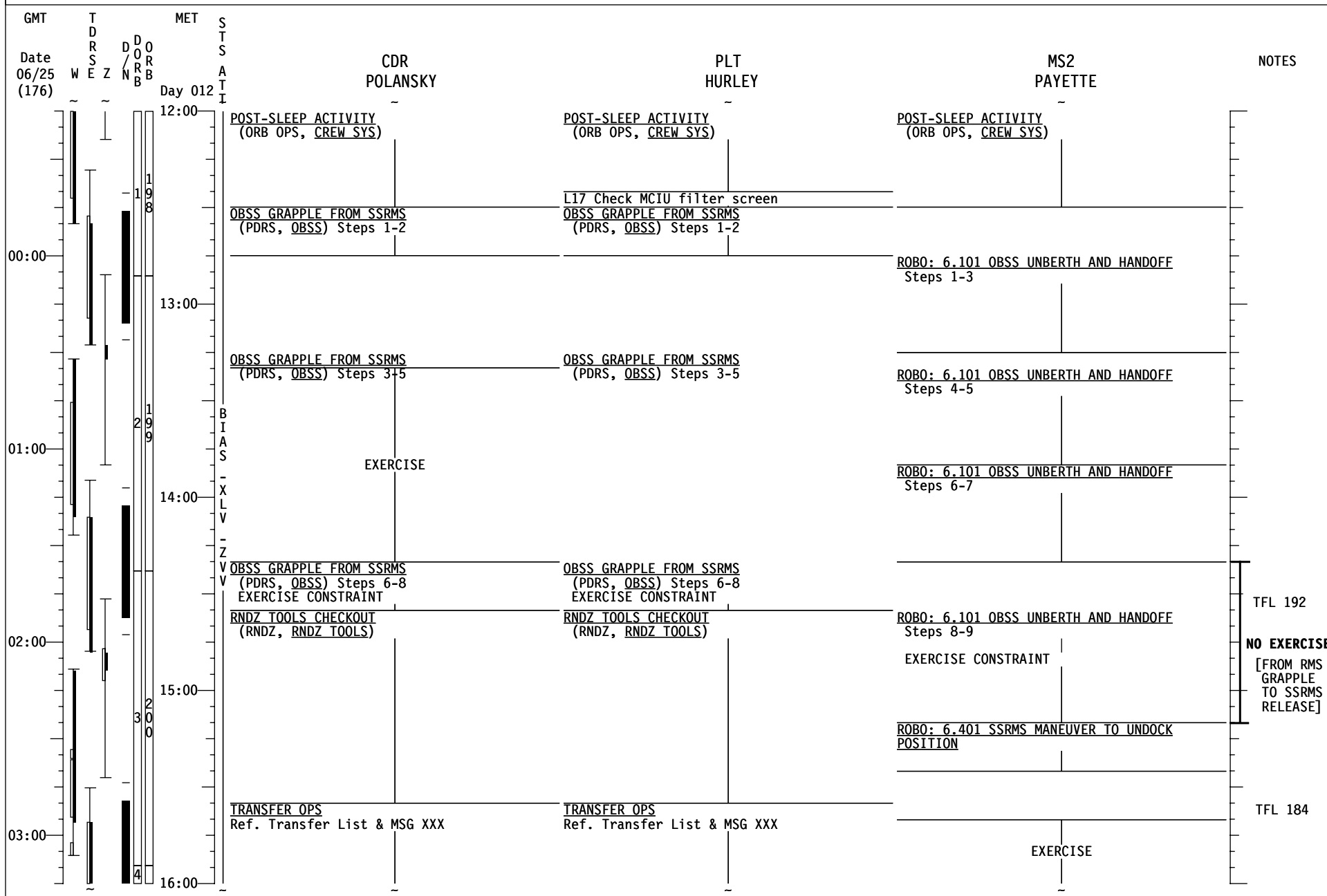
STS-127 FD (14)



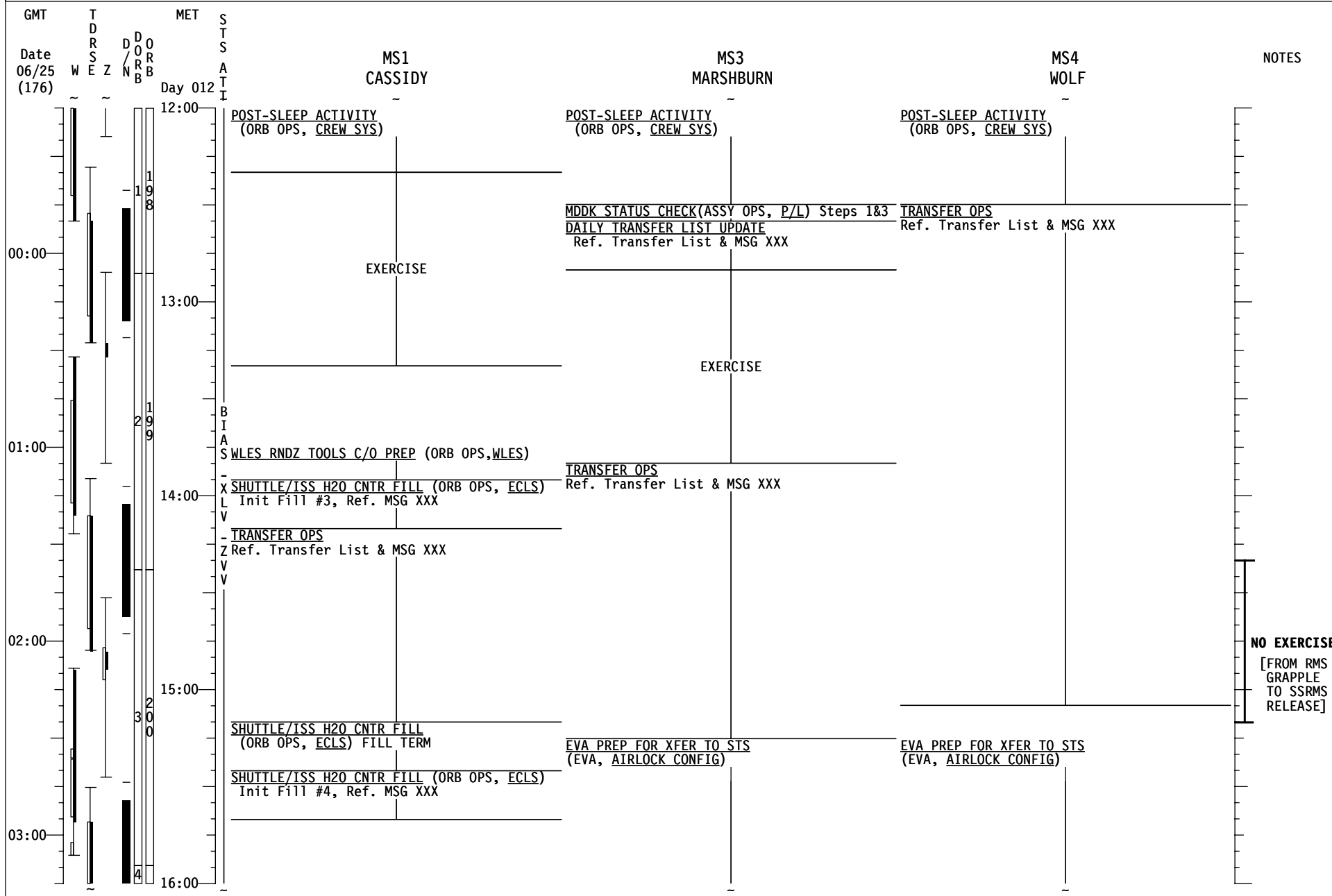
STS-127 FD (14)



STS-127 FD (14)



STS-127 FD (14)



STS-127 FD (14)

GMT	T D R S E Z W E Z	MET Day 012	S T S A T I	CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
Date 06/26 (177)	D O R B D O R B	16:00	I	TRANSFER OPS Ref. Transfer List & MSG XXX	TRANSFER OPS Ref. Transfer List & MSG XXX	EXERCISE	
				20:00			NOMINAL H2O CONFIG (ORB OPS, ECLS) FES PRI A Req'd
04:00		17:00			EXERCISE		
				N2 REPRESS USING PAYLOAD N2 VLVS [A] IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)		P/TV05 ISS INTERNAL OPS (PHOTO/TV, SCENES) DEACTIVATION	
05:00				[A] N2 REPRESS USING PAYLOAD N2 VLVS (ORB OPS, ECLS) Steps 1,3-7 MCC will TMBU s/w limits in step 1			
		18:00		MEAL	MEAL	MEAL	
				PUBLIC AFFAIRS EVENT ISS KU AVAIL: 18:20-18:45	PUBLIC AFFAIRS EVENT ISS KU AVAIL: 18:20-18:45	PUBLIC AFFAIRS EVENT ISS KU AVAIL: 18:20-18:45	
06:00		19:00				PWR FILL (ORB OPS, ECLS) Perform Water Fill #6 Fill dur. ~30 min Ref. MSG XXX	
					[B] N2 REPRESS USING PAYLOAD N2 VLVS (ORB OPS, ECLS) Steps 8-13 MCC will TMBU S/W limits in step 13	PWR TRANSFER Transfer 1 PWR to ISS	
				N2 REPRESS USING PAYLOAD N2 VLVS [B] JOINT OPS: 3.122 PREBREATHE USING SHUTTLE O2 TEARDOWN Steps 2-7 MCC-H will perform Steps 2.4 & 5.5			
07:00		20:00				P/TV04 INGRESS/EGRESS (PHOTO/TV, SCENES) SETUP	

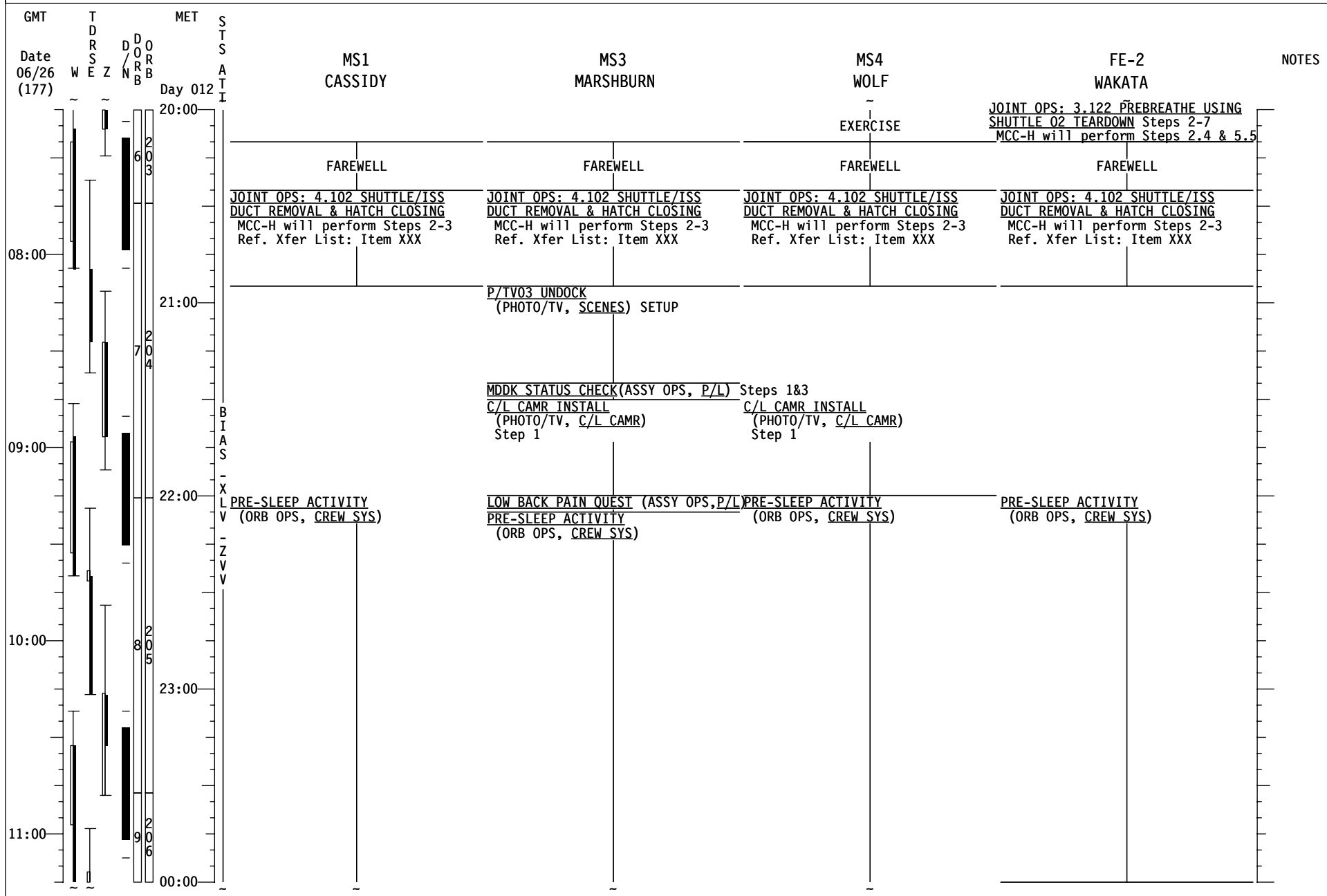
STS-127 FD (14)

GMT	T D R S E Z	D O R B	MET	S T S	MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	NOTES
Date 06/26 (177)	W	N	Day 012	A T I				
04:00		201	16:00		SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) FILL TERM	EVA PREP FOR XFER TO STS (EVA, AIRLOCK CONFIG)	EVA PREP FOR XFER TO STS (EVA, AIRLOCK CONFIG)	
		401			CWC TRANSFER Transfer 2 CWCs to ISS	EVA TRANSFER TO STS (EVA, AIRLOCK CONFIG)	EVA TRANSFER TO STS (EVA, AIRLOCK CONFIG)	
			17:00			EVA SYS: 1.510 METOX REGENERATION TERM		
05:00		502		B I A S	MEAL	MEAL	MEAL	
			18:00	X L V				
		502		Z V V	PUBLIC AFFAIRS EVENT ISS KU AVAIL: 18:20-18:45	PUBLIC AFFAIRS EVENT ISS KU AVAIL: 18:20-18:45	PUBLIC AFFAIRS EVENT ISS KU AVAIL: 18:20-18:45	
06:00		603			TRANSFER TAGUP Coordinate with xfer counterpart	TRANSFER TAGUP Coordinate with xfer counterpart		
			19:00		PGSC TRANSFER Transfer 1 PGSC from STS to ISS Ref. MSG XXX	TRANSFER BRIEF Call down status to MCC		
07:00			20:00				EXERCISE	

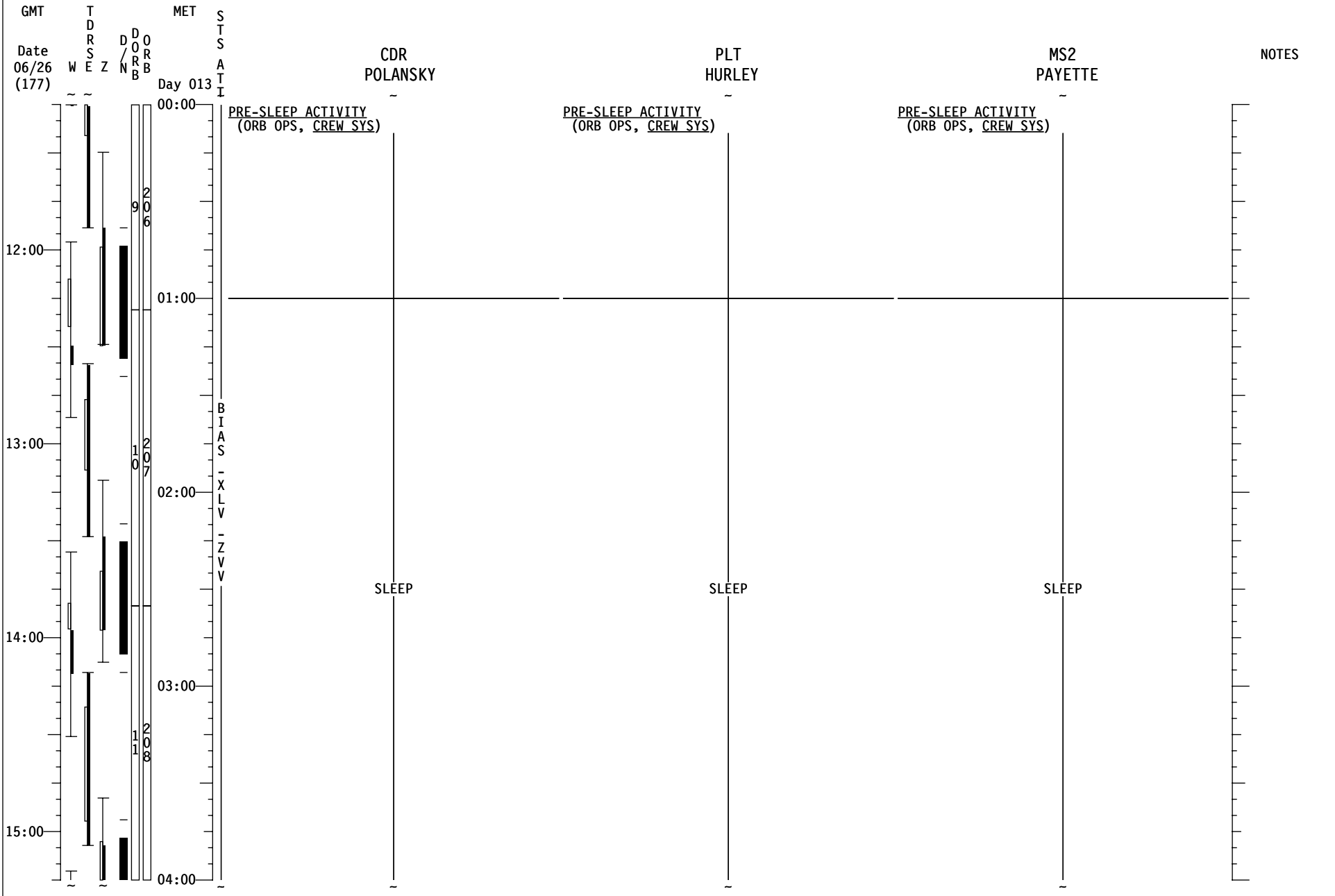
STS-127 FD (14)

GMT	TDRS W E Z	MET Day 012	S T S A T I	CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
Date 06/26 (177) 08:00 09:00 10:00 11:00 00:00	DORB 2003 DORB 2004 DORB 2005 DORB 2006	20:00 21:00 22:00 23:00 00:00	B I A S Z V V Z V V	JOINT OPS: 3.122 PREBREATHE USING SHUTTLE O2 TEARDOWN Steps 2-7 MCC-H will perform Steps 2.4 & 5.5 FAREWELL	FAREWELL	P/TV04 INGRESS/EGRESS (PHOTO/TV, SCENES) SETUP FAREWELL	
				H/O ATTITUDE CONTROL CMG TA TO ORBITER [C] JOINT OPS: 4.102 SHUTTLE/ISS DUCT REMOVAL & HATCH CLOSING MCC-H will perform Steps 2-3 Ref. Xfer List: Item XXX	JOINT OPS: 4.102 SHUTTLE/ISS DUCT REMOVAL & HATCH CLOSING MCC-H will perform Steps 2-3 Ref. Xfer List: Item XXX		
				JOINT OPS: 4.104 ODS VEST/PMA DPRS & HATCH LEAK CHECK Depress ODS Vestibule only	JOINT OPS: 4.104 ODS VEST/PMA DPRS & HATCH LEAK CHECK Depress ODS Vestibule only		
				[C] √A12/FREE/VERN When ISS in Free Drift, DAP:LVLH, When jet activity stopped for > 5 sec, DAP:FREE > 2 sec, Then DAP:AUTO			
				X When ISS is GO for attitude cntrl, DAP:FREE L LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS) V PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS) PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS) PCS 1(2) CONFIG (ORB OPS, ECLS) Config to PCS1 PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
				HUM SEP for H2O Accumulation			
				PRIVATE MEDICAL CONFERENCE Perform via A/G 2			
				PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			

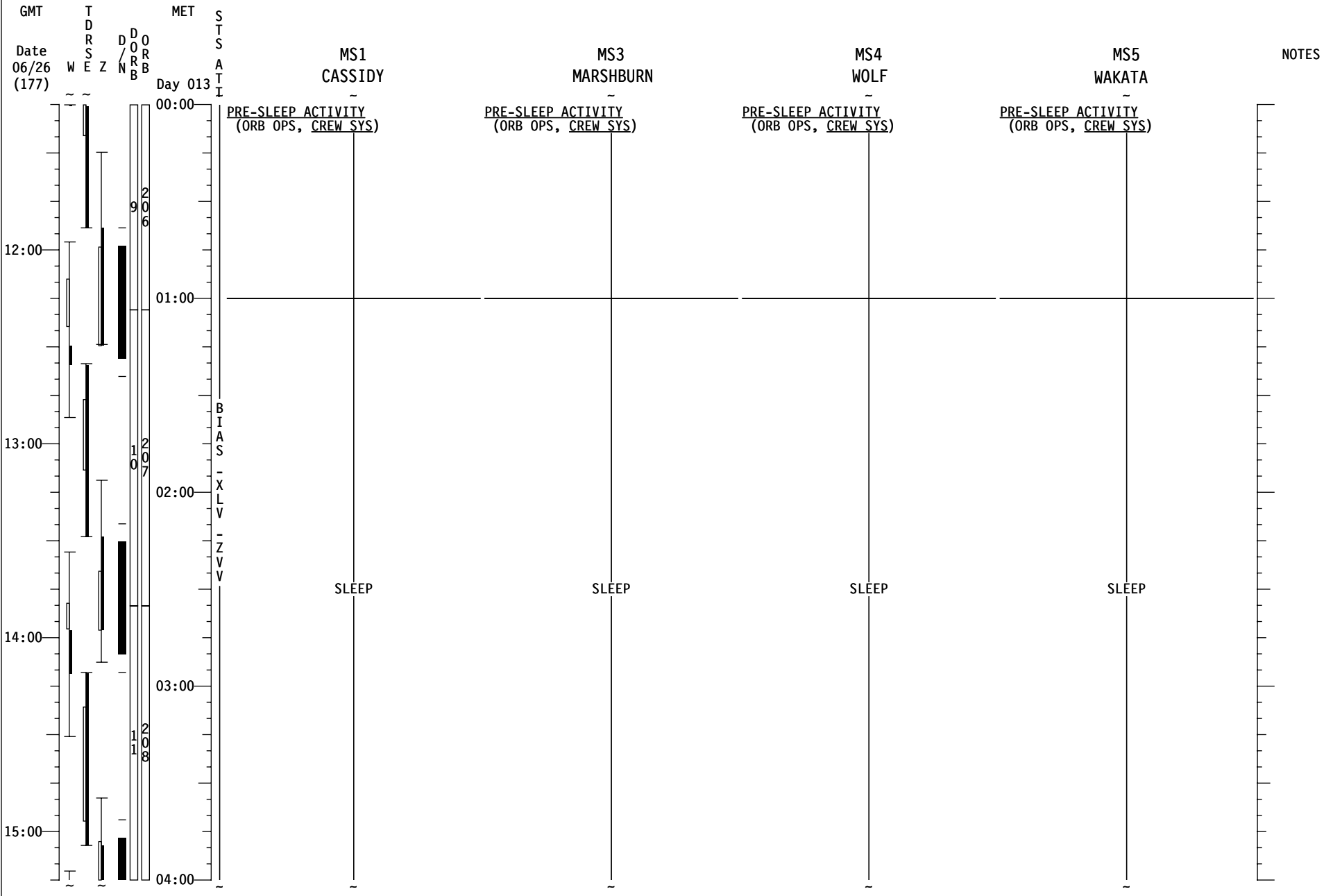
STS-127 FD (14)



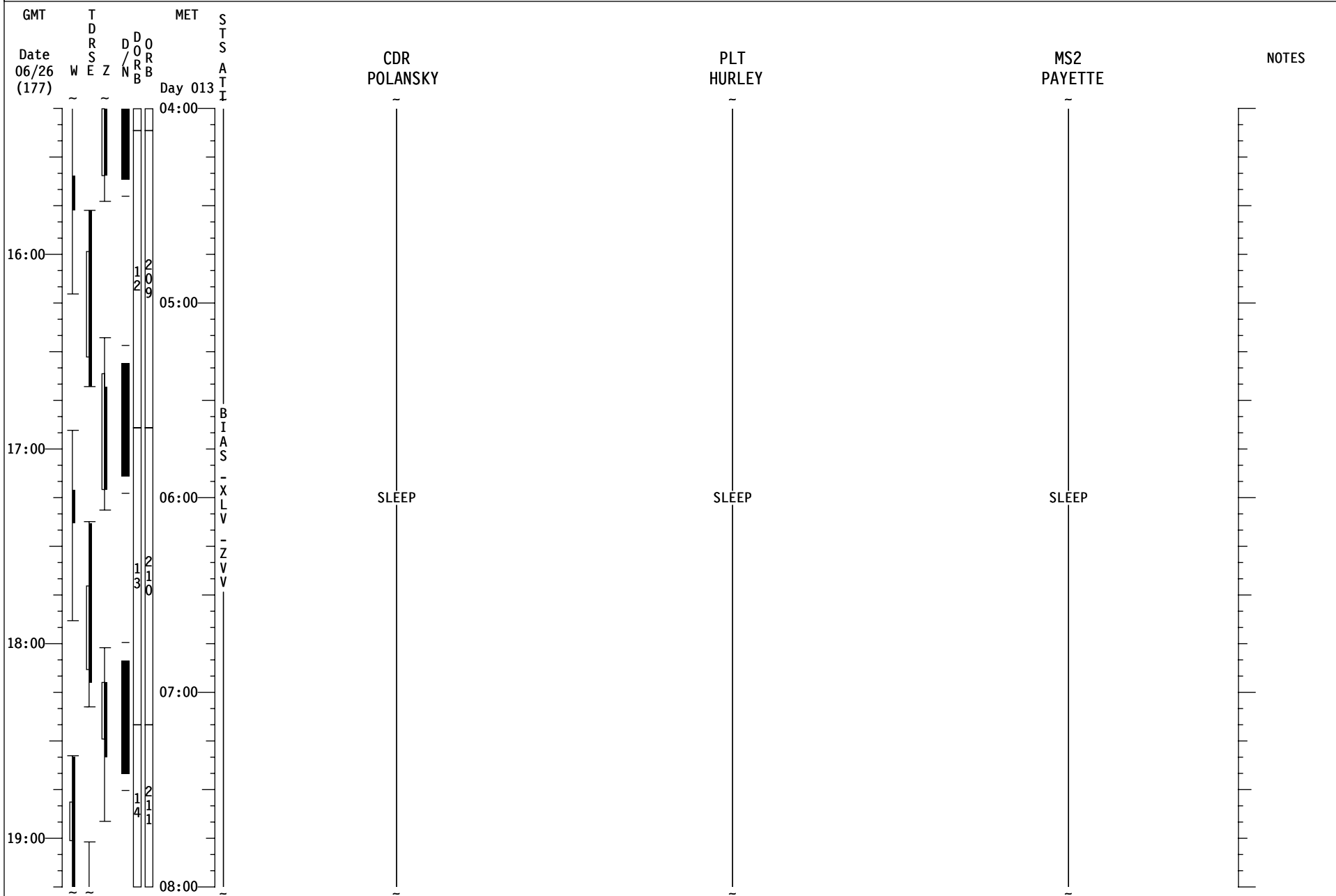
STS-127 FD (14)



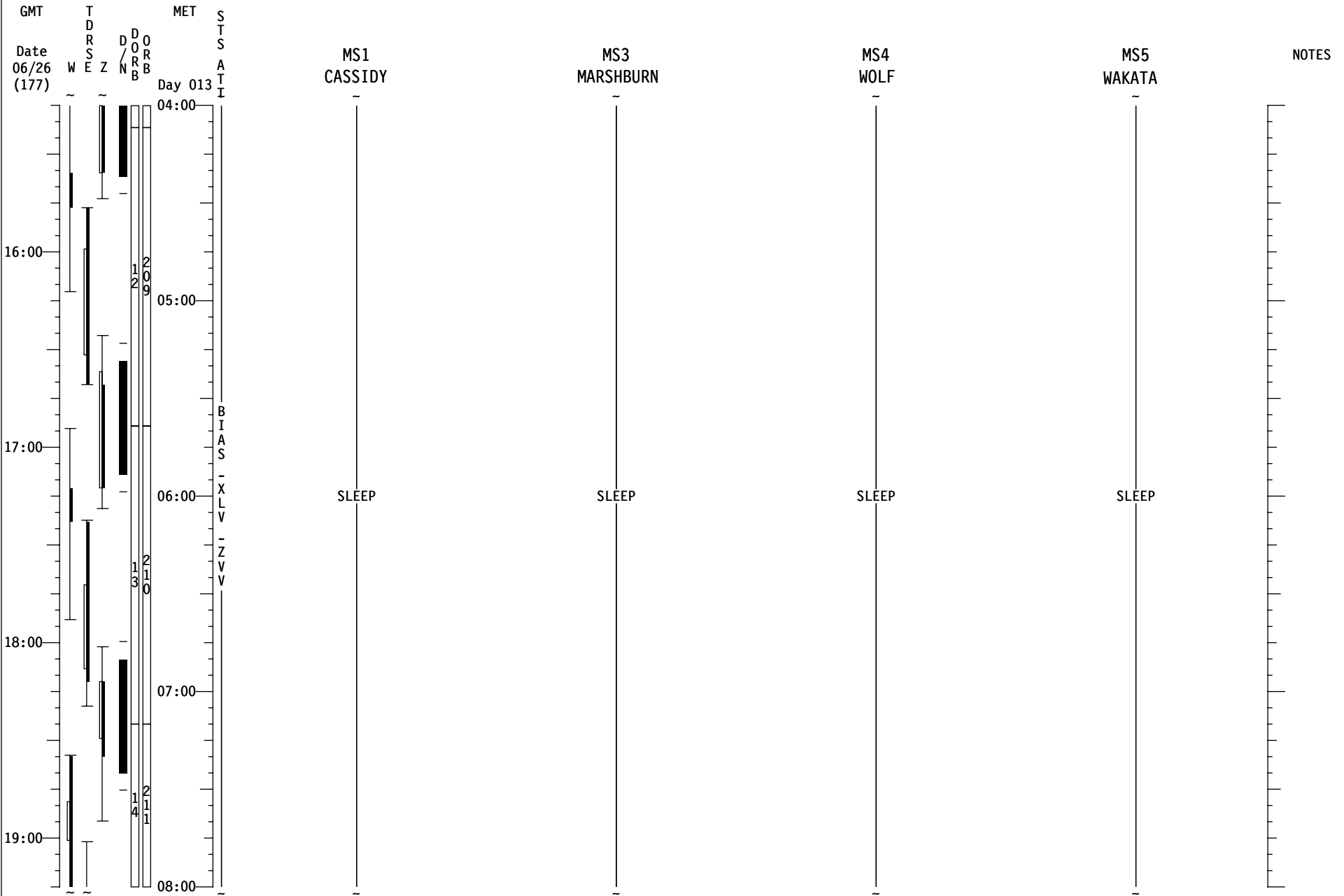
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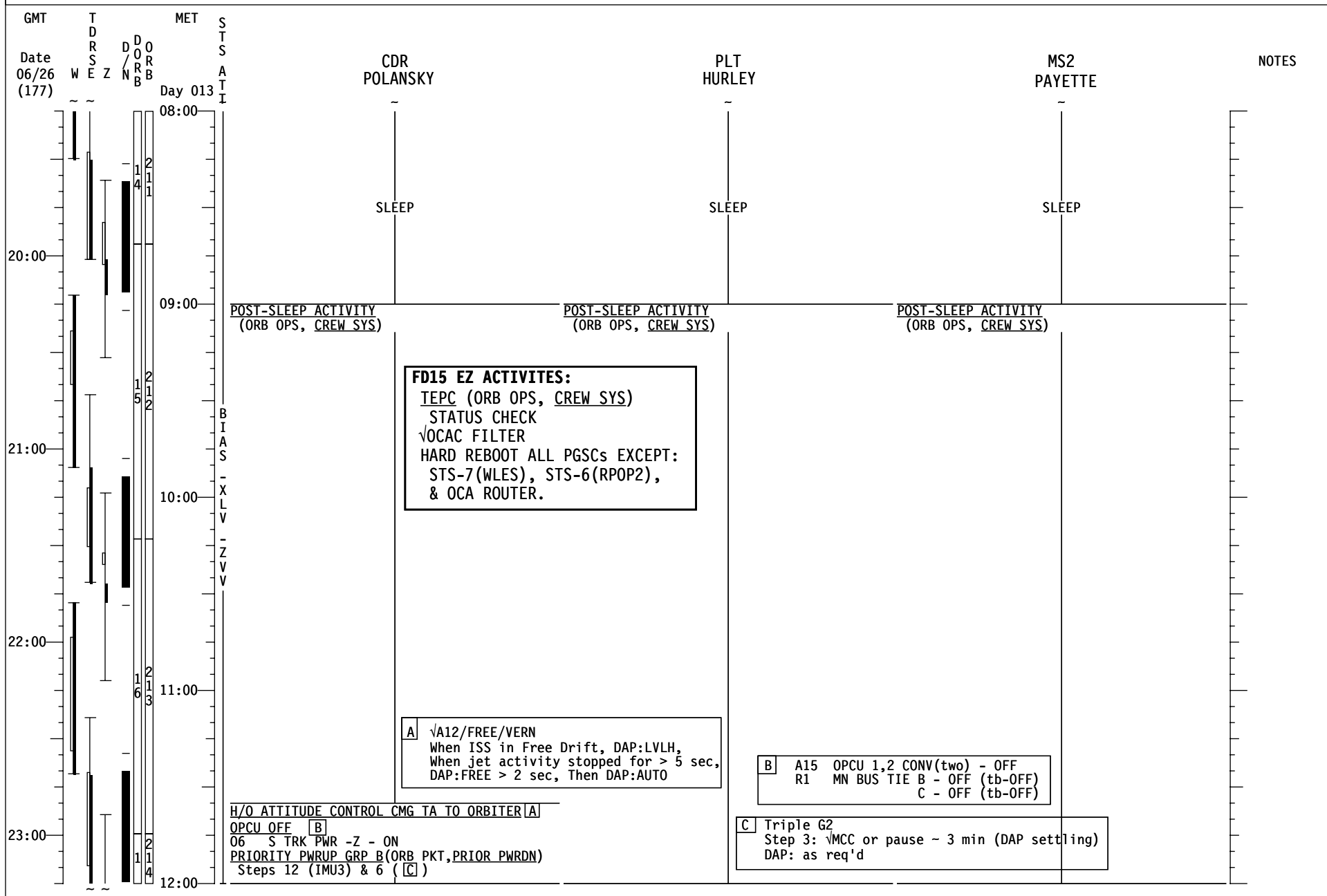
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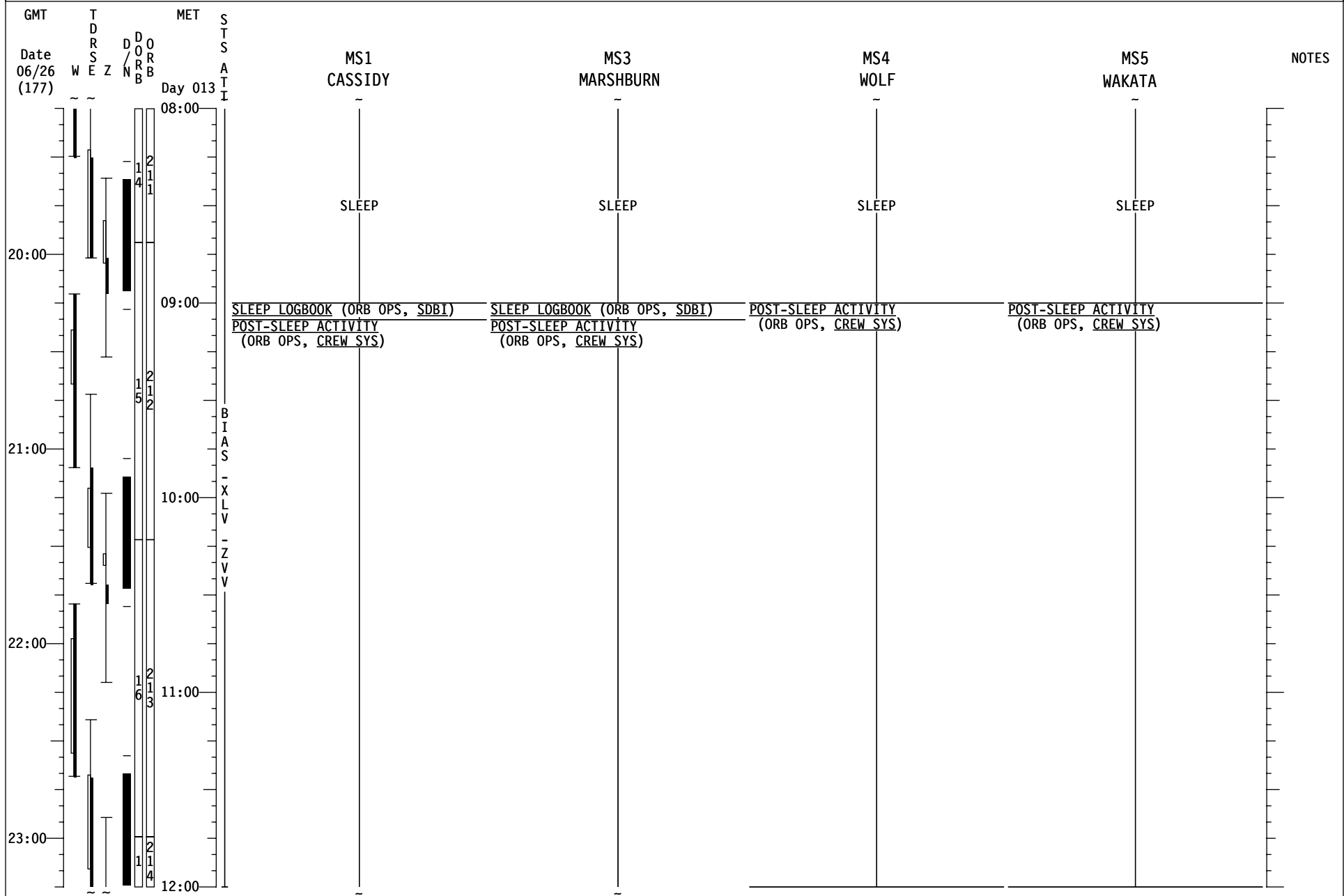
STS-127 FD (14)



STS-127 FD (15)



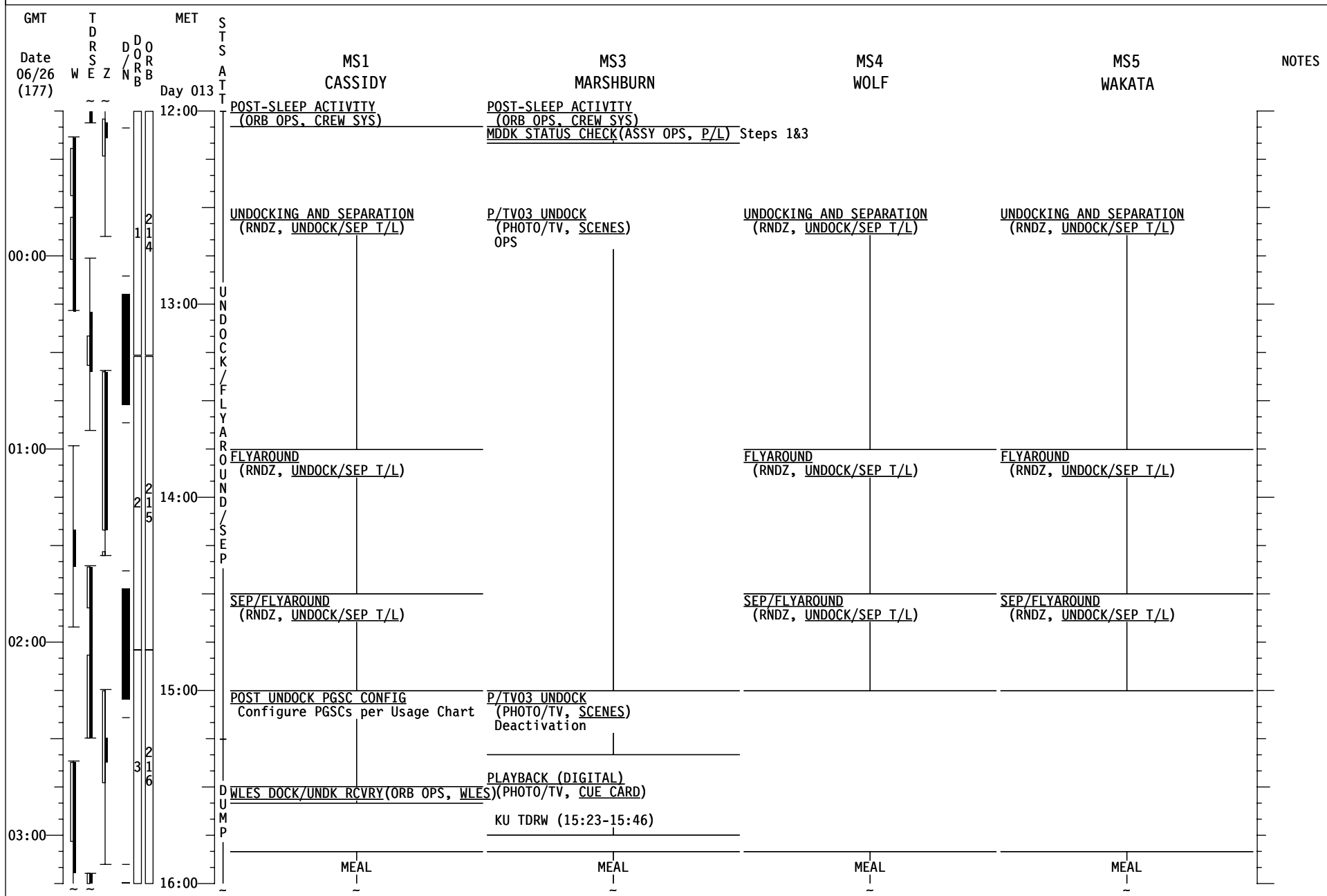
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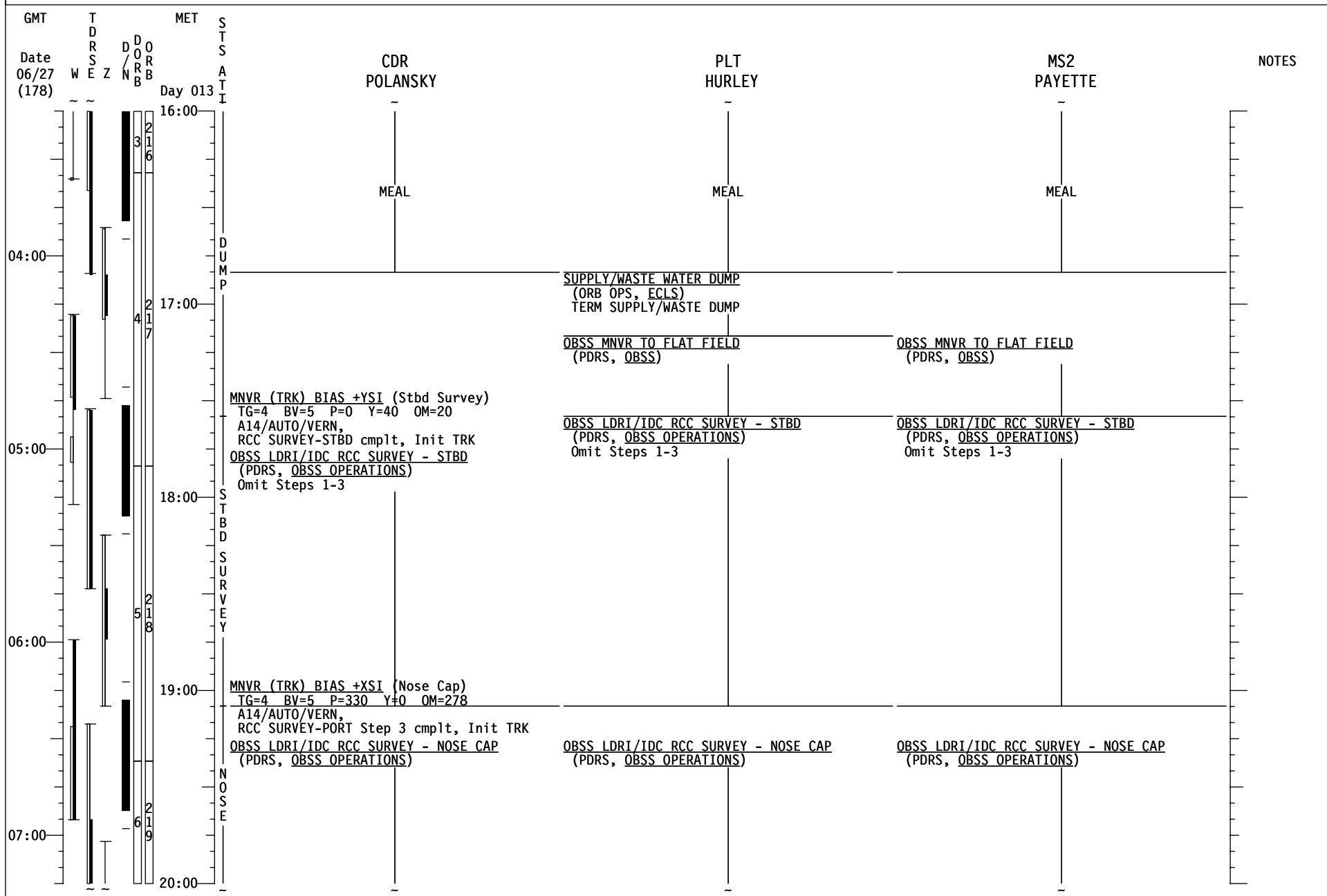
STS-127 FD (15)

GMT	TDRSEZ	MET	STS	CDR	PLT	MS2	NOTES
Date 06/26 (177)	W E Z	Day 013	A T T	POLANSKY	HURLEY	PAYETTE	
12:00				MNVR (TRK) UNDOCK TG=2 BV=5 P=180 Y=0 OM=0 A12/AUTO/VERN Init TRK	SSV OUTFATE - 3		TFL 192
00:00				UNDOCKING AND SEPARATION (RNDZ, UNDOCK/SEP T/L)	UNDOCKING AND SEPARATION (RNDZ, UNDOCK/SEP T/L)	UNDOCKING AND SEPARATION (RNDZ, UNDOCK/SEP T/L)	
				← UNDOCKING (13/13:13)			UPLINK β21 + Mask Box 1,2
01:00				FLYAROUND (RNDZ, UNDOCK/SEP T/L)	FLYAROUND (RNDZ, UNDOCK/SEP T/L)	FLYAROUND (RNDZ, UNDOCK/SEP T/L)	
02:00				< SEP1 TIG (14:28) SEP/FLYAROUND (RNDZ, UNDOCK/SEP T/L)	SEP/FLYAROUND (RNDZ, UNDOCK/SEP T/L)	SEP/FLYAROUND (RNDZ, UNDOCK/SEP T/L)	
					D SSP1 OIU PWR - OFF (tb-bp) Expect S62 BCE BYP PSP 1		
03:00				< SEP2 TIG (14:56) PRIORITY PWRDN GRP B (ORB PKT, PRIOR PWRDN) Steps 5,6(Single G2),9,10 & 12 (IMU3)	PRIORITY PWRDN GRP B (ORB PKT, PRIOR PWRDN) Steps 5,6(Single G2),9,10 & 12 (IMU3)	SSV OUTFATE - 4 JOINT OPS: 6.106 SSOR DEACTIVATION	TFL 188 UPLINK β21 + Mask
				MNVR (TRK) BIAS -ZLV +YVV (DUMP) TG=2 BV=5 P=90 Y=0 OM=250 A1/AUTO/VERN Init TRK	D OIU DEACTIVATION HEATER RECONFIG-CONFIG B (ORB OPS, EPS)	CABIN TEMP CONTROLLER RECONFIG-2(1) (ORB OPS, ECLS)	
				COMM STRING 1 C/O (PART A) (ORB OPS, COMM/INST)	SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) INIT SUPPLY/WASTE DUMP Ref. MSG XXX	SHUTTLE CONDENSATE COLLECTION (ORB OPS, ECLS) TEARDOWN	
16:00				MEAL	MEAL	MEAL	L17 Check MCIU filter screen

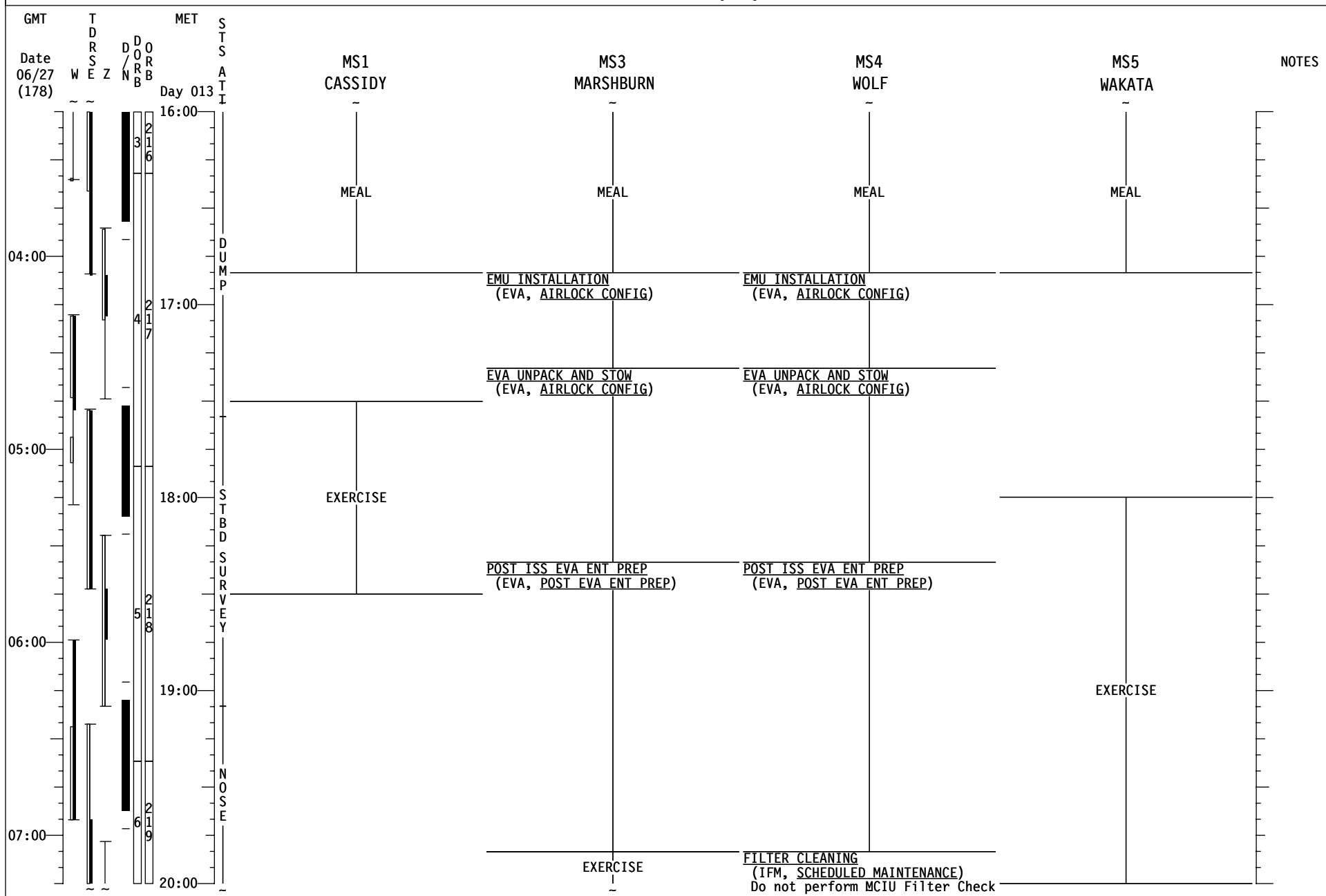
STS-127 FD (15)



STS-127 FD (15)



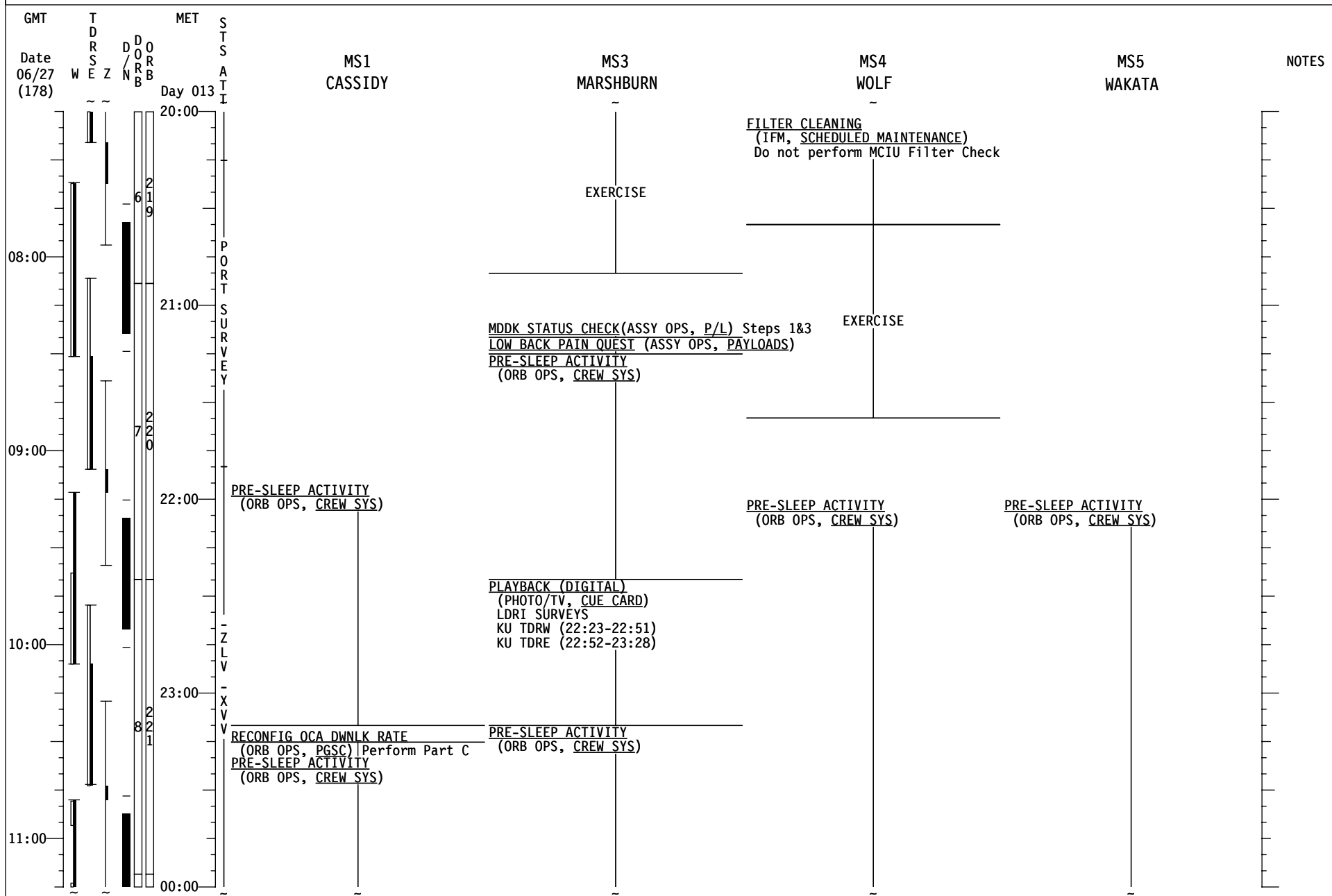
STS-127 FD (15)



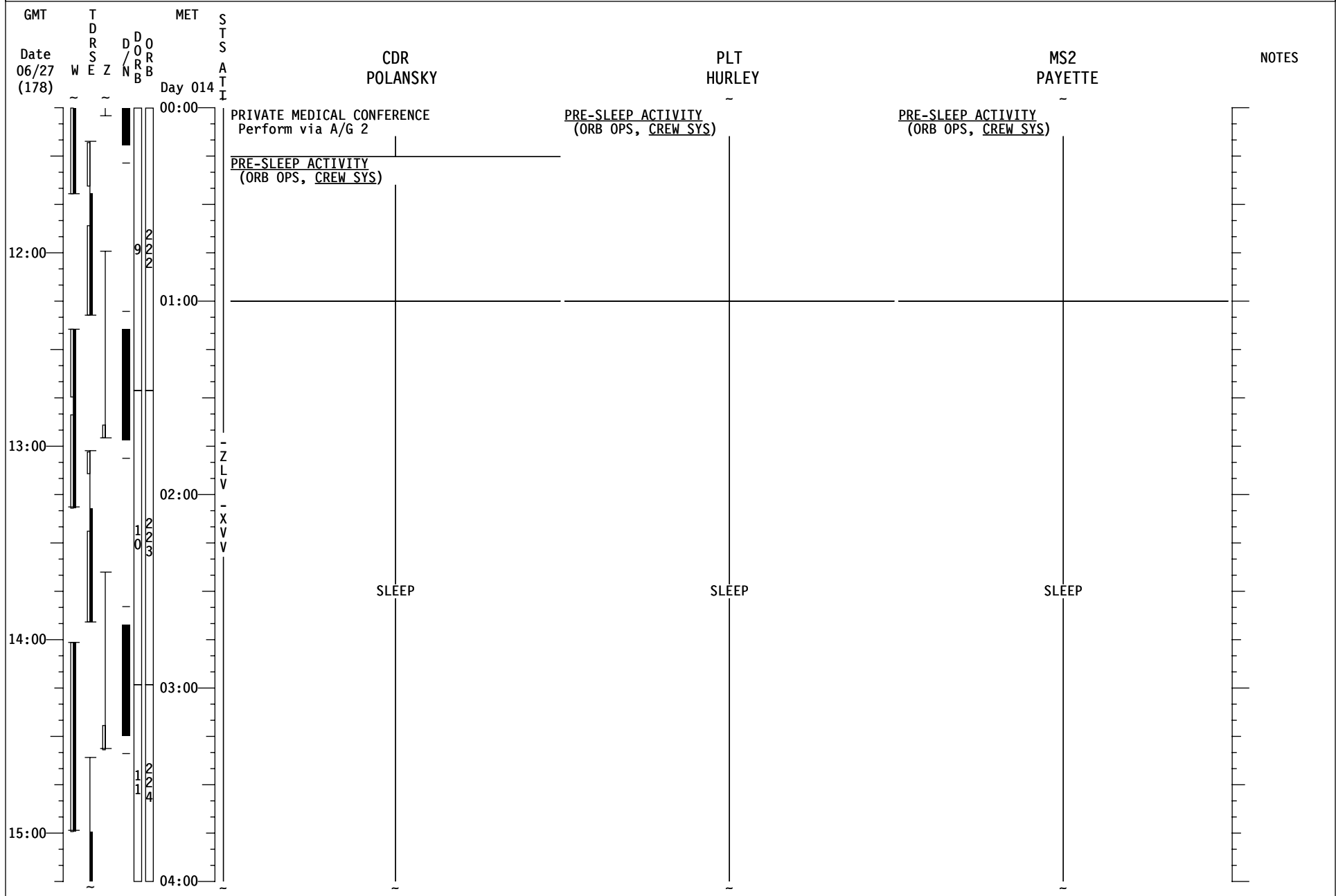
STS-127 FD (15)

GMT	TDRSEZ	MET	SATS	CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
Date 06/27 (178)	W E Z	Day 013	STS				
	DORB						
08:00				<u>OBSS LDRI/IDC RCC SURVEY - NOSE CAP</u> (PDRS, OBSS OPERATIONS) <u>IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)</u> Perform Port Survey Steps 1-3 prior to mnvr MNVR (TRK) BIAS -YSI (Port Survey) TG=4 BV=5 P=0 Y=323 OM=300 A14/AUTO/VERN, RCC SURVEY-PORT Step 10 cmplt, Init TRK <u>OBSS LDRI/IDC RCC SURVEY - PORT</u> (PDRS, OBSS OPERATIONS)	<u>OBSS LDRI/IDC RCC SURVEY - NOSE CAP</u> (PDRS, OBSS OPERATIONS) <u>OBSS LDRI/IDC RCC SURVEY - PORT</u> (PDRS, OBSS OPERATIONS)	<u>OBSS LDRI/IDC RCC SURVEY - NOSE CAP</u> (PDRS, OBSS OPERATIONS) <u>OBSS LDRI/IDC RCC SURVEY - PORT</u> (PDRS, OBSS OPERATIONS)	
09:00							
10:00				<u>MNVR (TRK) -ZLV -XVV</u> TG=2 BV=3 OM=0 A14/AUTO/VERN Init TRK <u>LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)</u> <u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>OBSS BERTH</u> (PDRS, OBSS OPERATIONS) Record Camera D	<u>OBSS BERTH</u> (PDRS, OBSS OPERATIONS) Record Camera D	
11:00					<u>LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)</u> <u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)</u> <u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	
00:00							

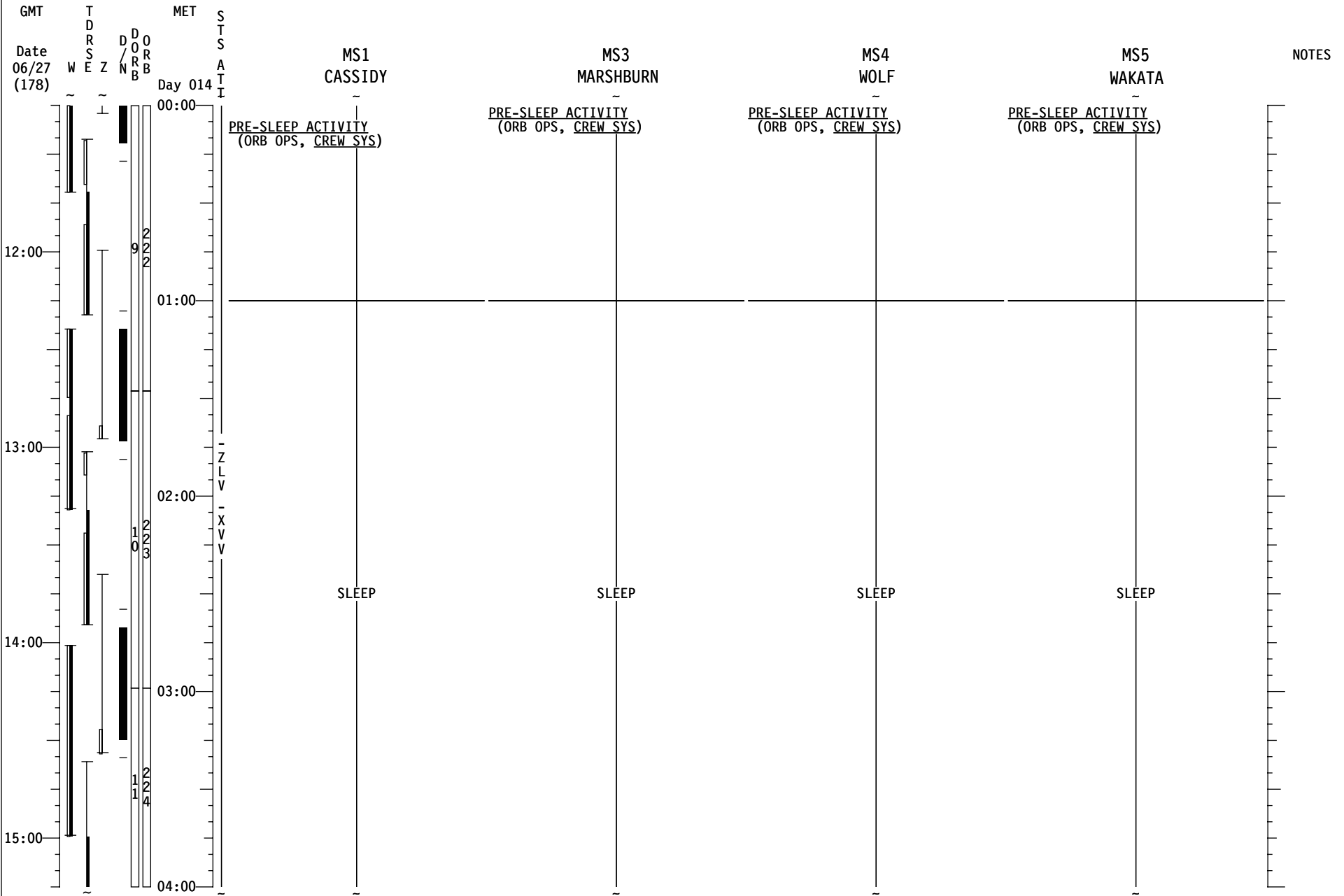
STS-127 FD (15)



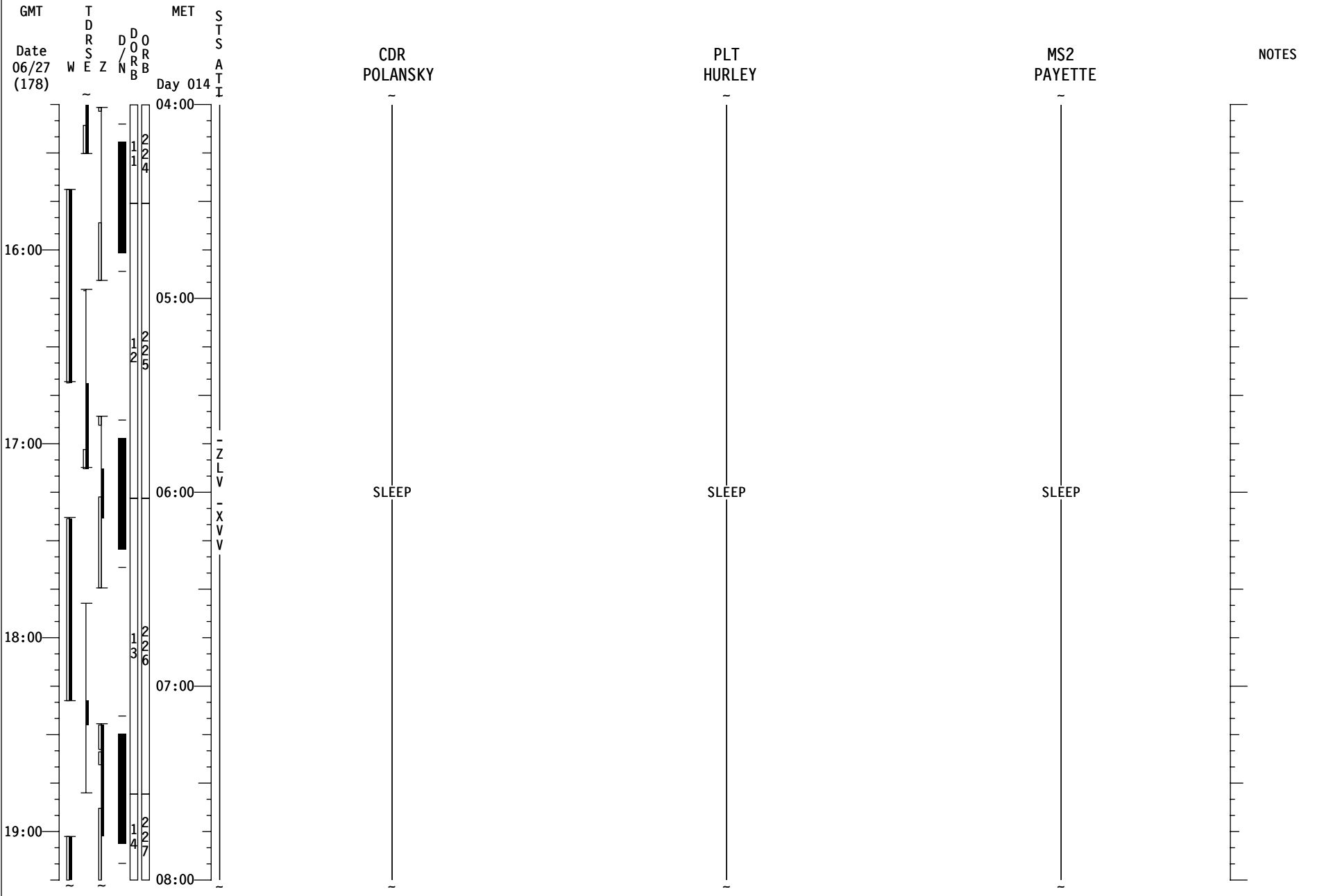
STS-127 FD (15)



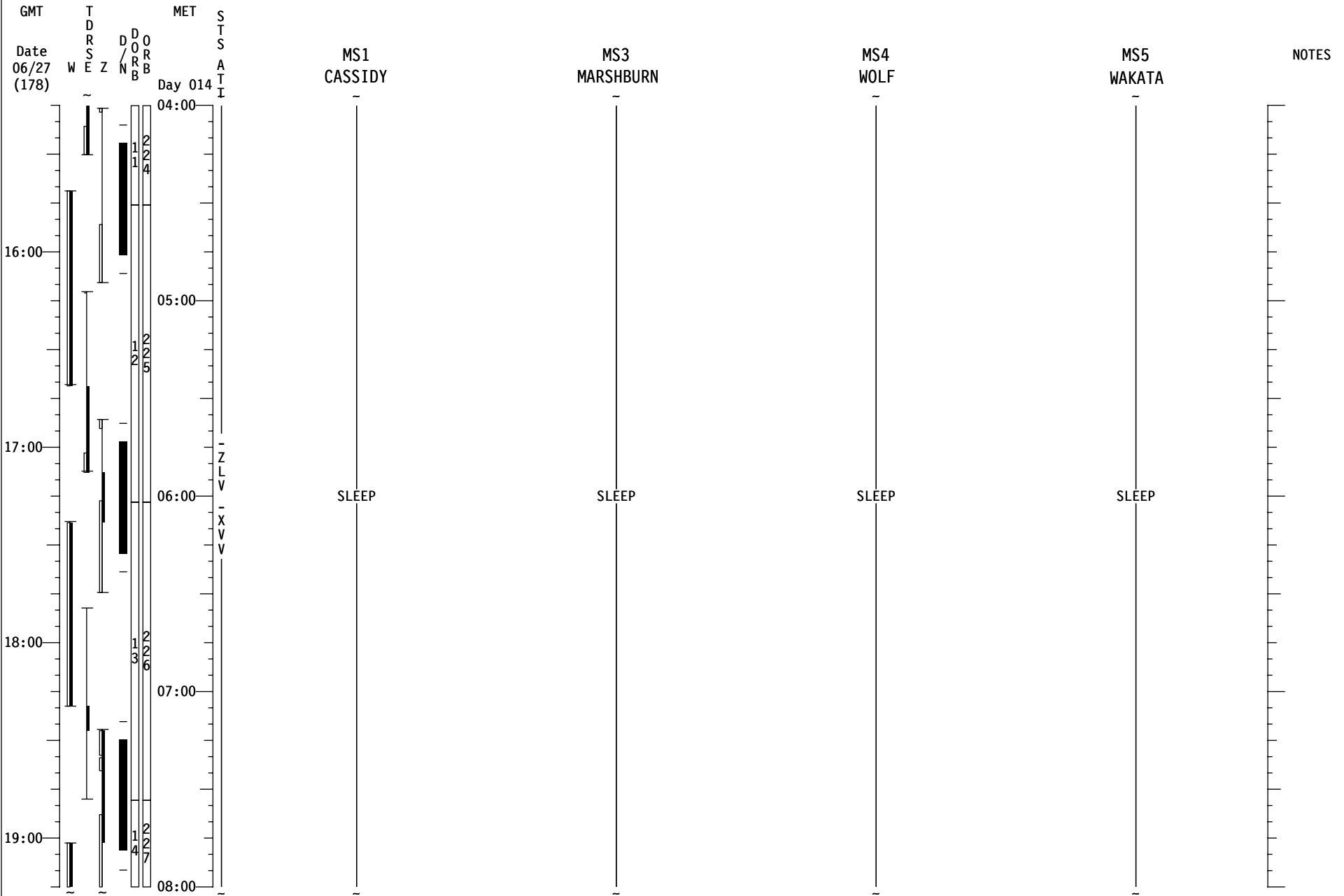
STS-127 FD (15)



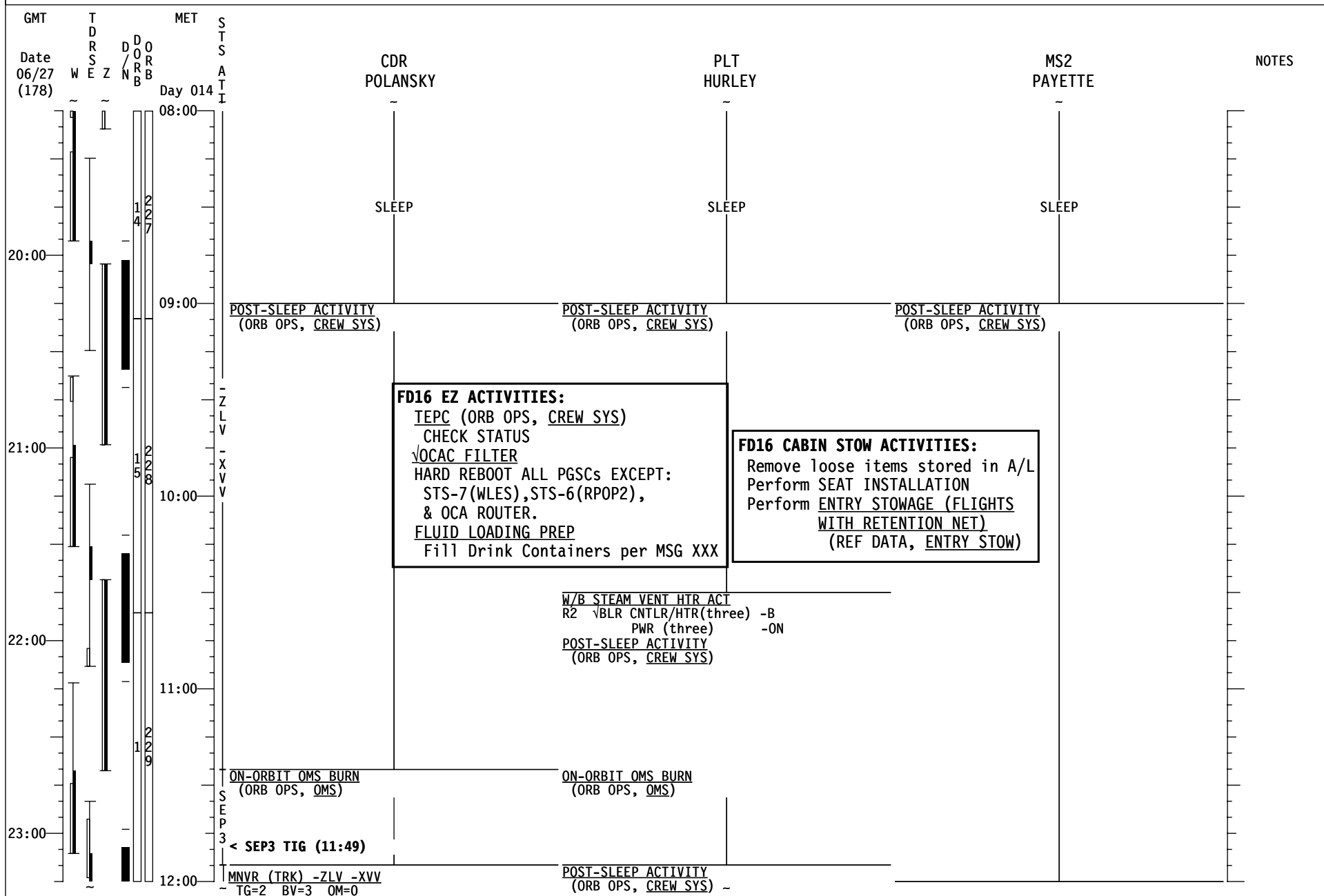
STS-127 FD (15)



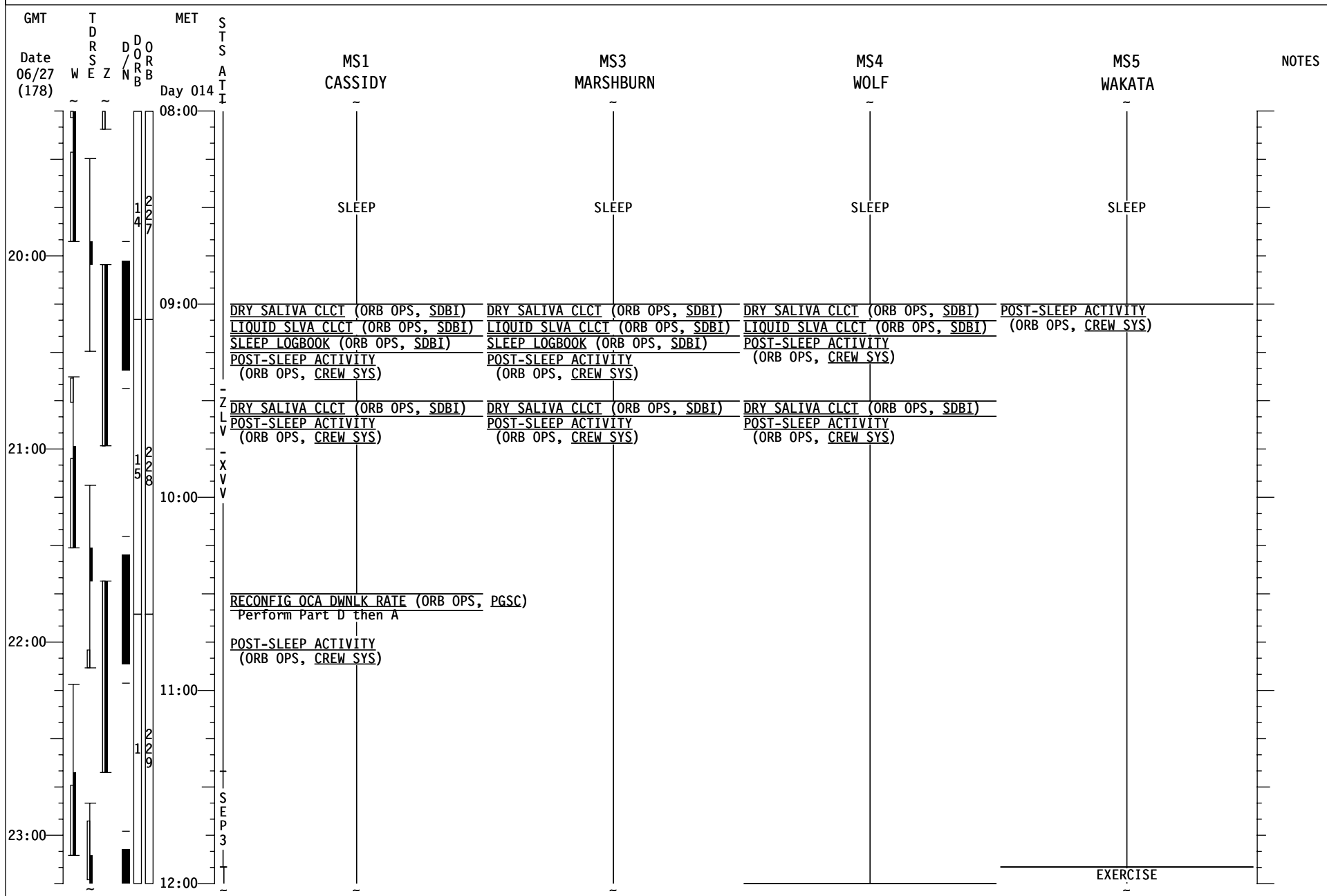
STS-127 FD (15)



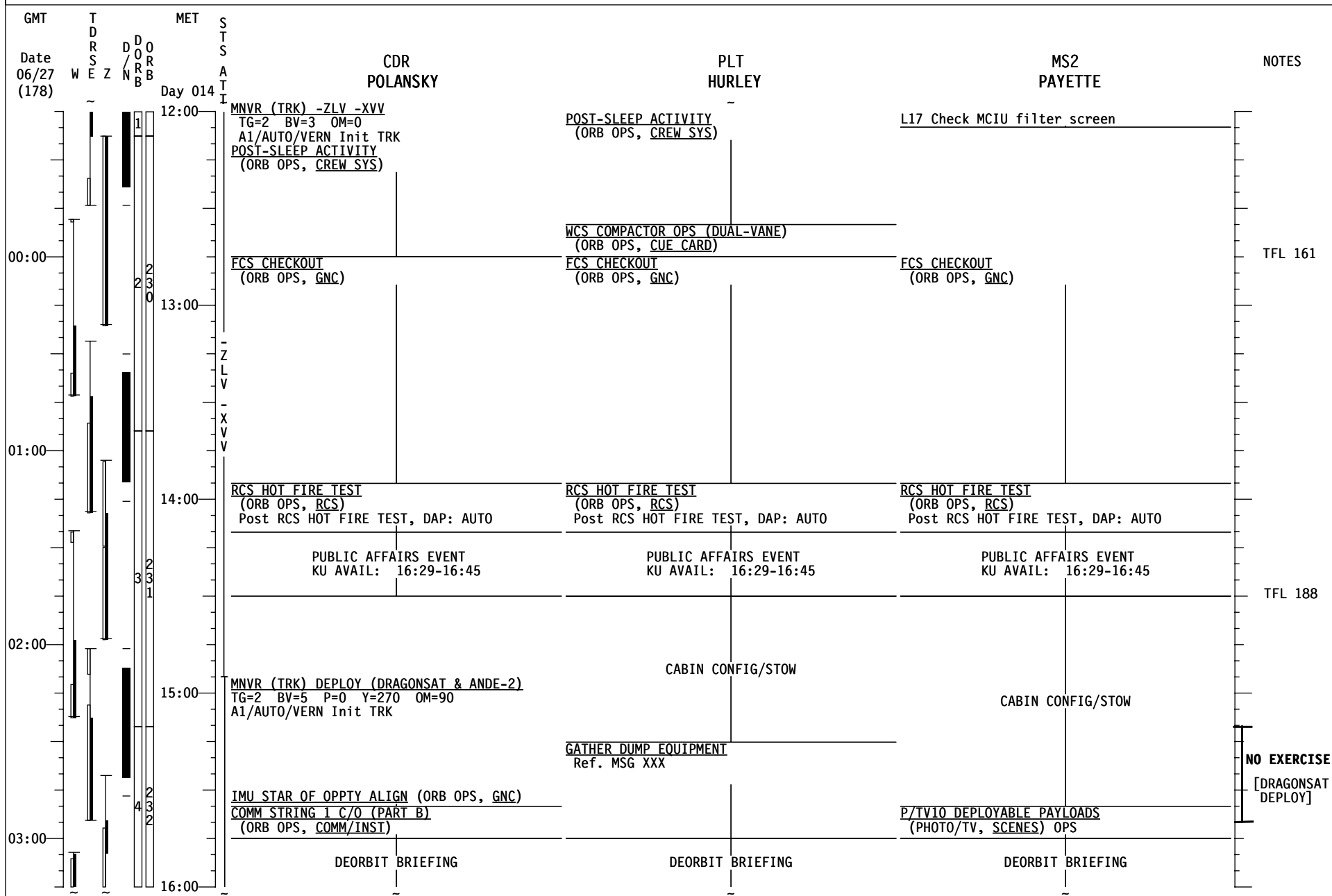
STS-127 FD (16)



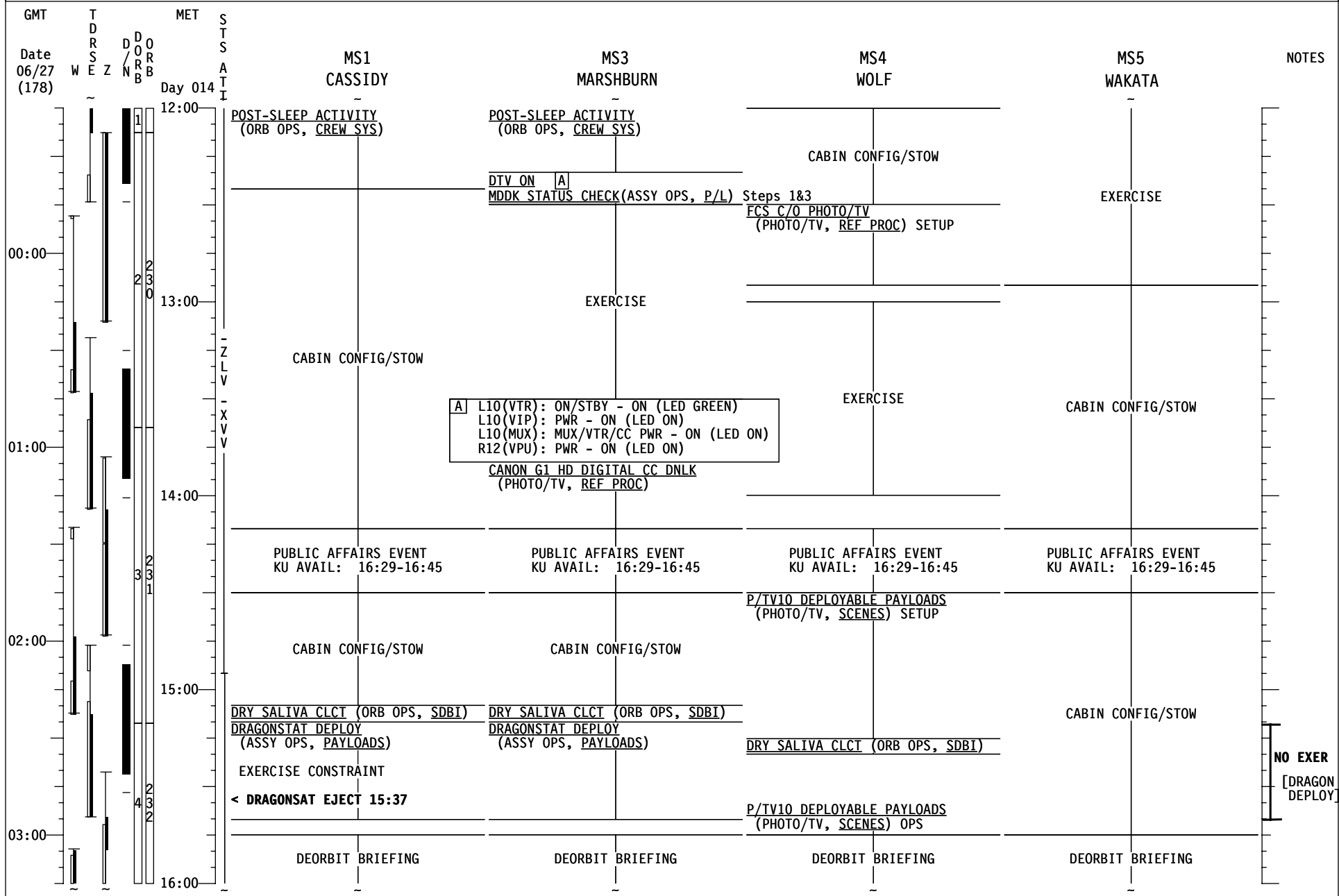
STS-127 FD (16)



STS-127 FD (16)



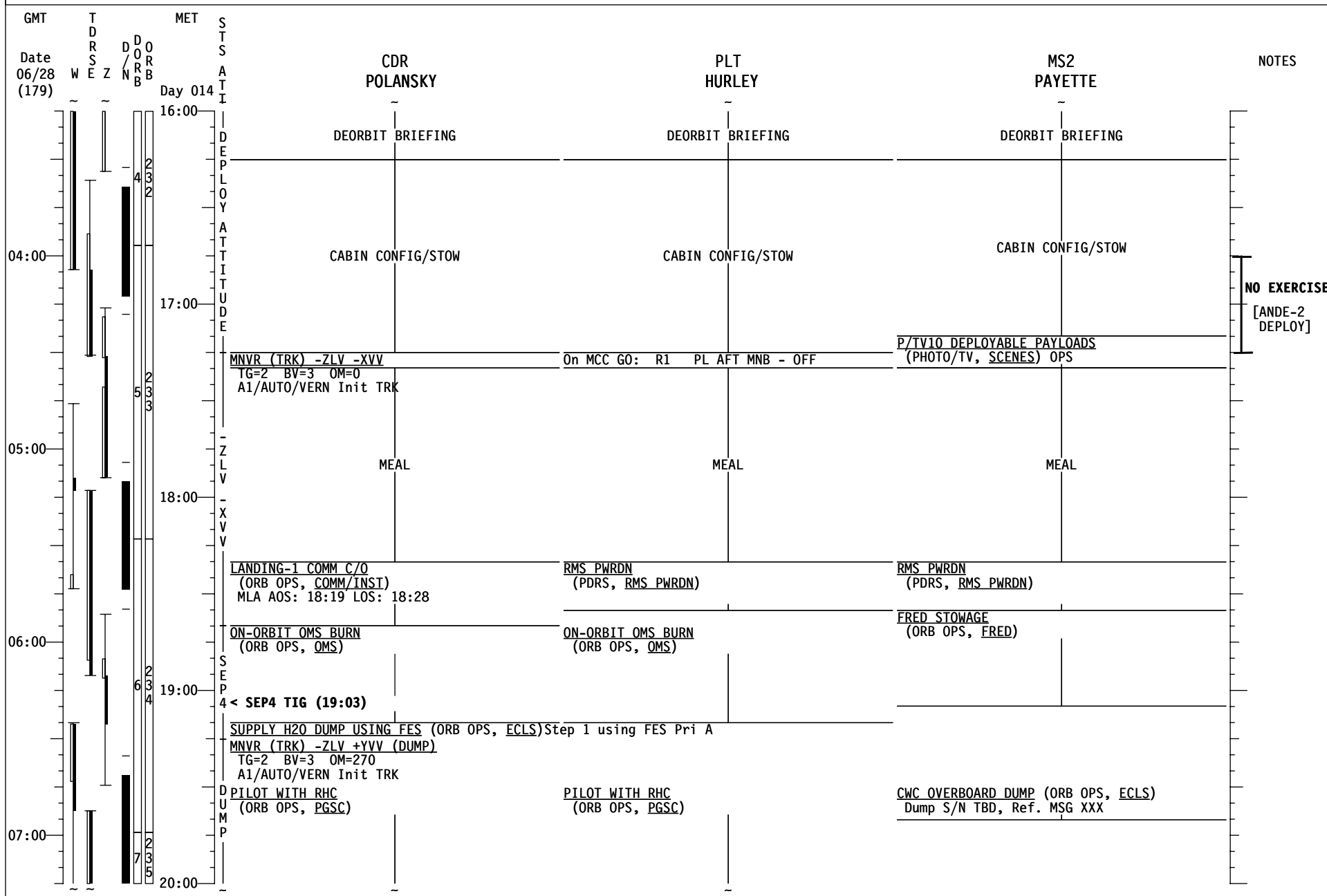
STS-127 FD (16)



[A] L10(VTR): ON/STBY - ON (LED GREEN)
 L10(VIP): PWR - ON (LED ON)
 L10(MUX): MUX/VTR/CC PWR - ON (LED ON)
 R12(VPU): PWR - ON (LED ON)

NO EXER
[DRAGON DEPLOY]

STS-127 FD (16)



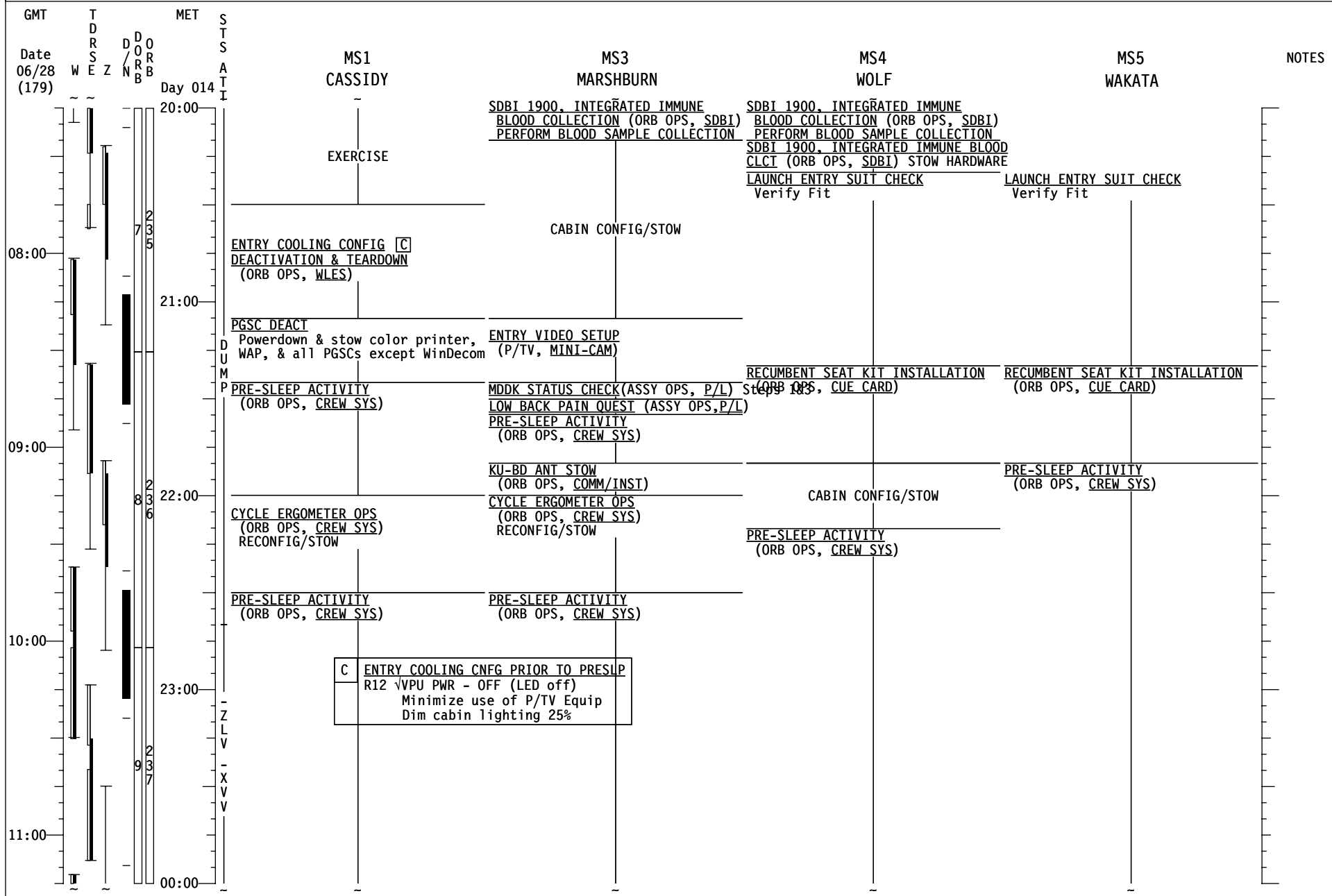
STS-127 FD (16)

GMT	TDRSEZ Date 06/28 (179)	MET Day 014	STS ATTITUDE	MS1 CASSIDY	MS3 MARSHBURN	MS4 WOLF	MS5 WAKATA	NOTES
16:00			DEPLOY	DEORBIT BRIEFING	DEORBIT BRIEFING	DEORBIT BRIEFING	DEORBIT BRIEFING	
						P/TV10 DEPLOYABLE PAYLOADS (PHOTO/TV, SCENES) Perform ANDE-2 Steps		
04:00			ATTITUDE	ANDE-2 DEPLOY (ASSY OPS, PAYLOADS)	ANDE-2 DEPLOY (ASSY OPS, PAYLOADS)	CABIN CONFIG/STOW	CABIN CONFIG/STOW	NO EXER [ANDE-2 DEPLOY]
			DUDE	EXERCISE CONSTRAINT < ANDE-2 EJECT 17:08				
						P/TV10 DEPLOYABLE PAYLOADS (PHOTO/TV, SCENES) OPS		
05:00			ZLV	MEAL	MEAL	MEAL	MEAL	
			XVV					
06:00				CABIN CONFIG/STOW		CABIN CONFIG/STOW		
			SEP		CABIN CONFIG/STOW	SDBI 1900, INTEGRATED IMMUNE BLOOD CLCT (ORB OPS, SDBI) SETUP FOR BLOOD SAMPLE COLLECTION	EXERCISE	
			4	DRY SALIVA CLCT (ORB OPS, SDBI) SDBI 1900, INTEGRATED IMMUNE BLOOD COLLECTION (ORB OPS, SDBI) PERFORM BLOOD SAMPLE COLLECTION		DRY SALIVA CLCT (ORB OPS, SDBI) SDBI 1900, INTEGRATED IMMUNE BLOOD COLLECTION (ORB OPS, SDBI) PERFORM BLOOD SAMPLE COLLECTION		
					DRY SALIVA CLCT (ORB OPS, SDBI) SDBI 1900, INTEGRATED IMMUNE BLOOD COLLECTION (ORB OPS, SDBI) PERFORM BLOOD SAMPLE COLLECTION	SDBI 1900, INTEGRATED IMMUNE BLOOD COLLECTION (ORB OPS, SDBI) PERFORM BLOOD SAMPLE COLLECTION	CANON G1 HD DIGITAL CC DNLK (PHOTO/TV, REF PROC)	
07:00			DUMP	EXERCISE				
					SDBI 1900, INTEGRATED IMMUNE BLOOD COLLECTION (ORB OPS, SDBI) PERFORM BLOOD SAMPLE COLLECTION	SDBI 1900, INTEGRATED IMMUNE BLOOD COLLECTION (ORB OPS, SDBI) PERFORM BLOOD SAMPLE COLLECTION	JAXA PUBLIC AFFAIRS EVENT KU AVAIL TDRE: 19:38-20:14	
20:00					SDBI 1900, INTEGRATED IMMUNE BLOOD COLLECTION (ORB OPS, SDBI) PERFORM BLOOD SAMPLE COLLECTION	SDBI 1900, INTEGRATED IMMUNE BLOOD COLLECTION (ORB OPS, SDBI) PERFORM BLOOD SAMPLE COLLECTION		

STS-127 FD (16)

GMT	T D R S E Z	MET	S T S A T I	CDR POLANSKY	PLT HURLEY	MS2 PAYETTE	NOTES
Date 06/28 (179)	W E Z	Day 014					
08:00						EXERCISE	
				EXERCISE	CONDENSATE DUMP TERM/INIT [B]		
					LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS)	SSV DEACTIVATION (PHOTO/TV, SSV)	TFL 161
09:00				LANDING-1 COMM C/O (ORB OPS, COMM/INST) DFR AOS: 21:24 LOS: 21:33	EXERCISE	CABIN CONFIG/STOW	
				CONDENSATE DUMP TERM/INIT [B]		LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS) KU-BD ANT STOW (ORB OPS, COMM/INST)	
				LOW BACK PAIN QUEST (ASSY OPS, PAYLOADS) SUPPLY WATER DUMP USING FES (ORB OPS, ECLS) On MCC GO: Step 2, FES Pri A Req'd PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
10:00				CWC OVERBOARD DUMP (ORB OPS, ECLS) TERM DUMP, Ref. MSG XXX MNVF (TRK) -ZLV -XVV TG=2 BV=3 OM=0 A1/AUTO/VERN Init TRK	<div style="border: 1px solid black; padding: 5px;"> [B] CWC OVERBOARD DUMP (ORB OPS, ECLS) TERM DUMP, Ref. MSG XXX CWC OVERBOARD DUMP (ORB OPS, ECLS) Dump CWC S/N TBD, Ref. MSG XXX </div>		
				PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
				PRIVATE MEDICAL CONFERENCE Perform via A/G 2			
11:00				PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
00:00							

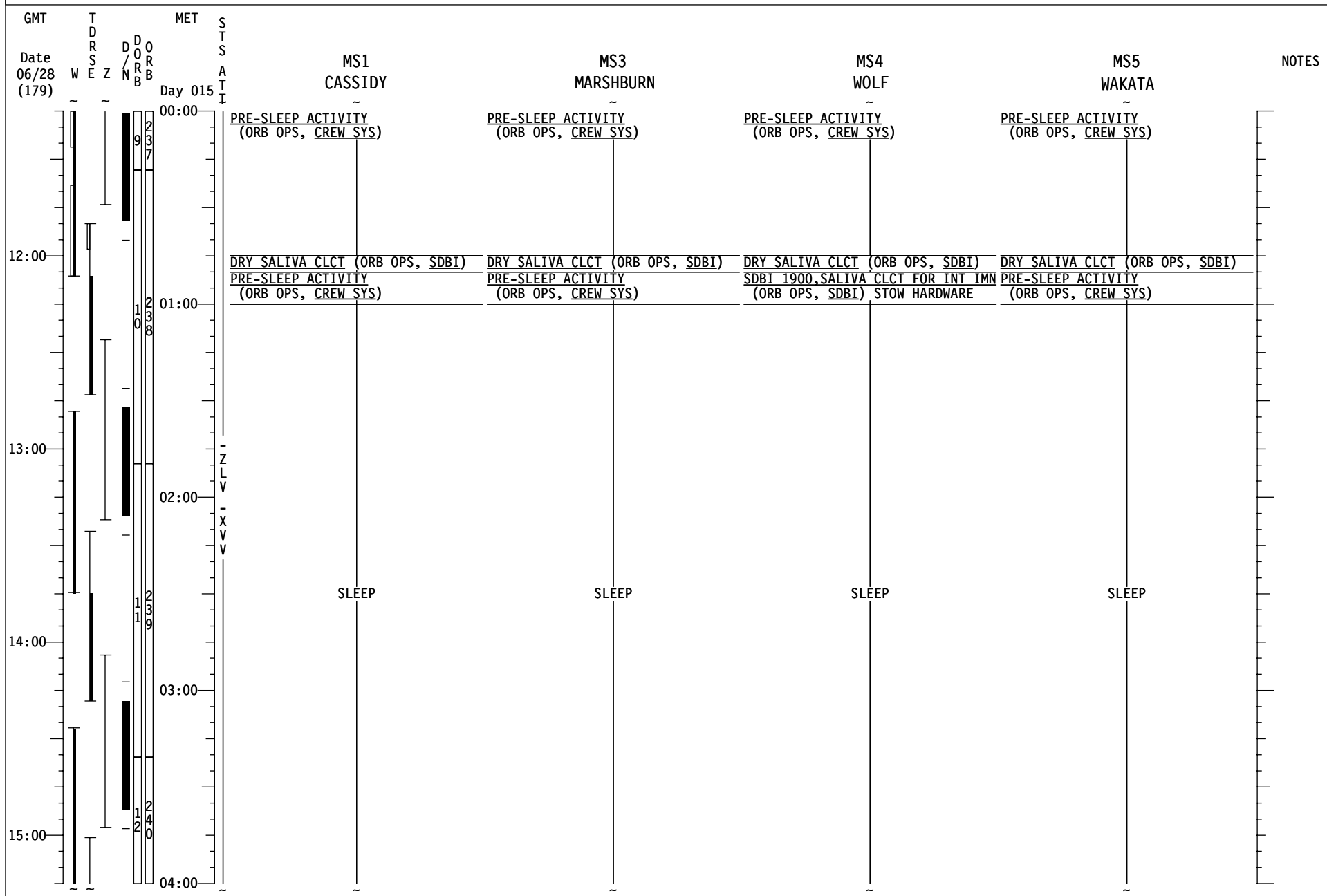
STS-127 FD (16)



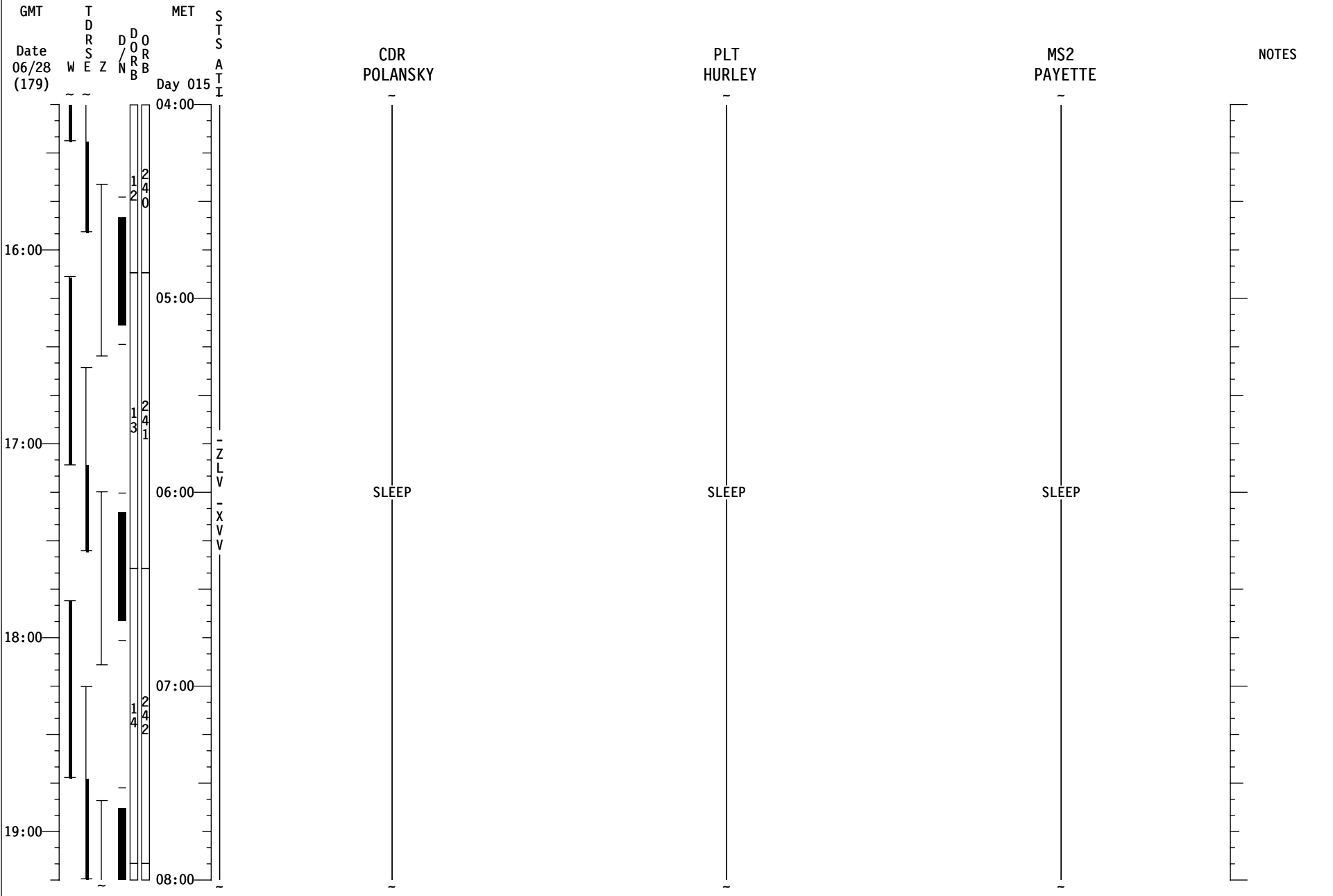
STS-127 FD (16)

GMT	TDRSEZ	MET	S	T	S	A	T	I	NOTES
Date 06/28 (179)	W	Day 015	DRB	DRB	PLN	PLN	PLN	PLN	
12:00									
13:00									
14:00									
15:00									
04:00									
					CDR POLANSKY		PLT HURLEY		MS2 PAYETTE
					PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
					SLEEP		SLEEP		

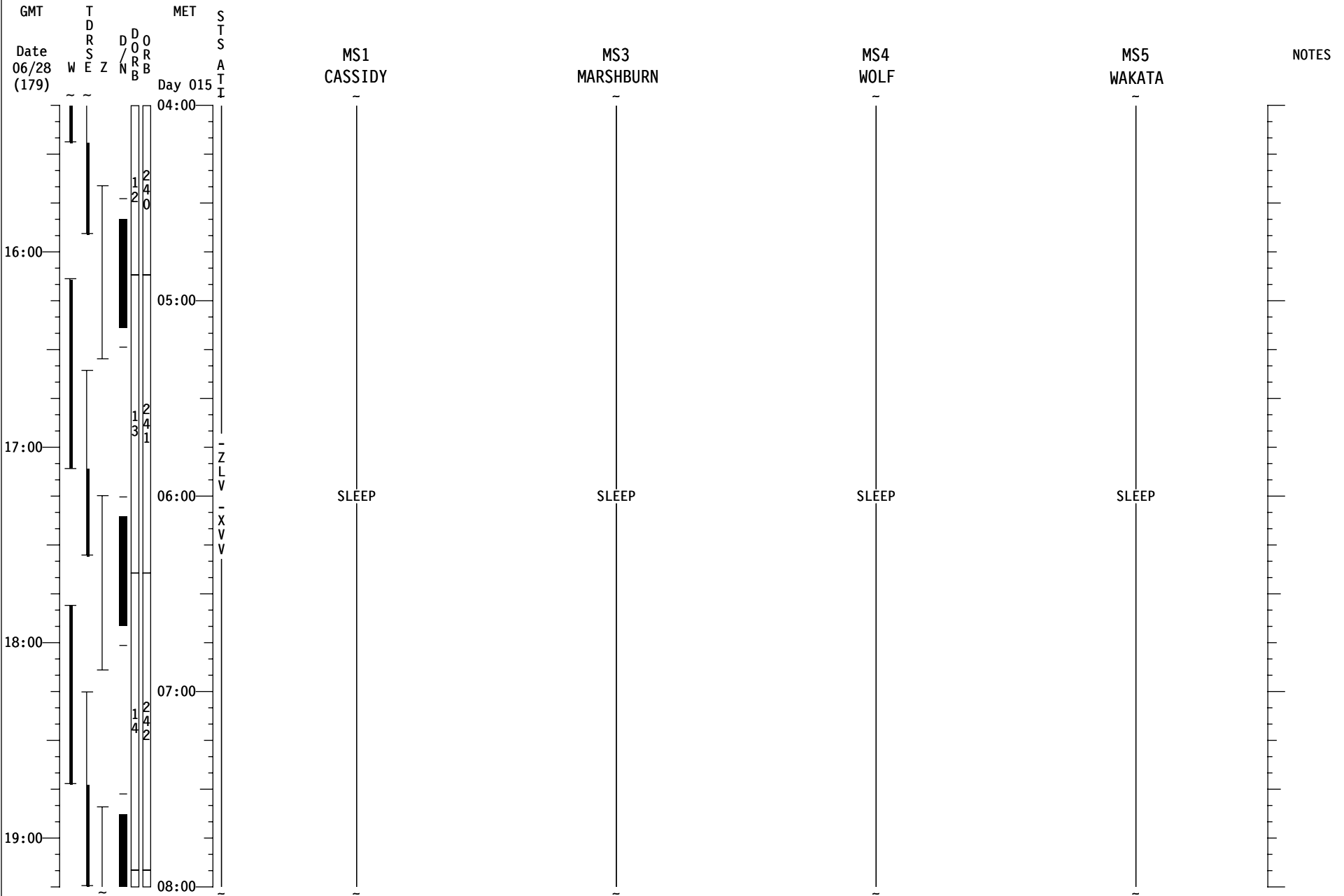
STS-127 FD (16)



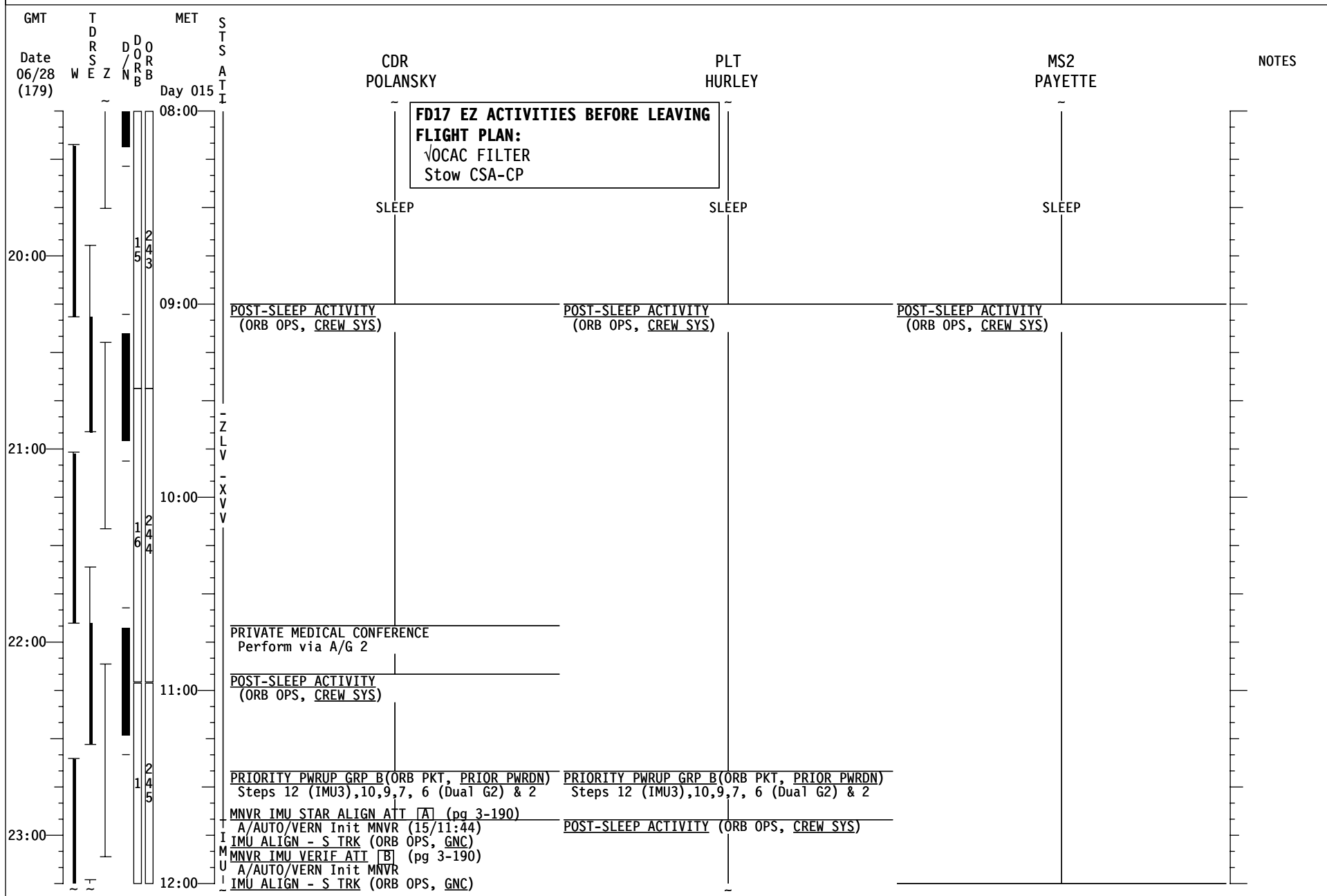
STS-127 FD (16)



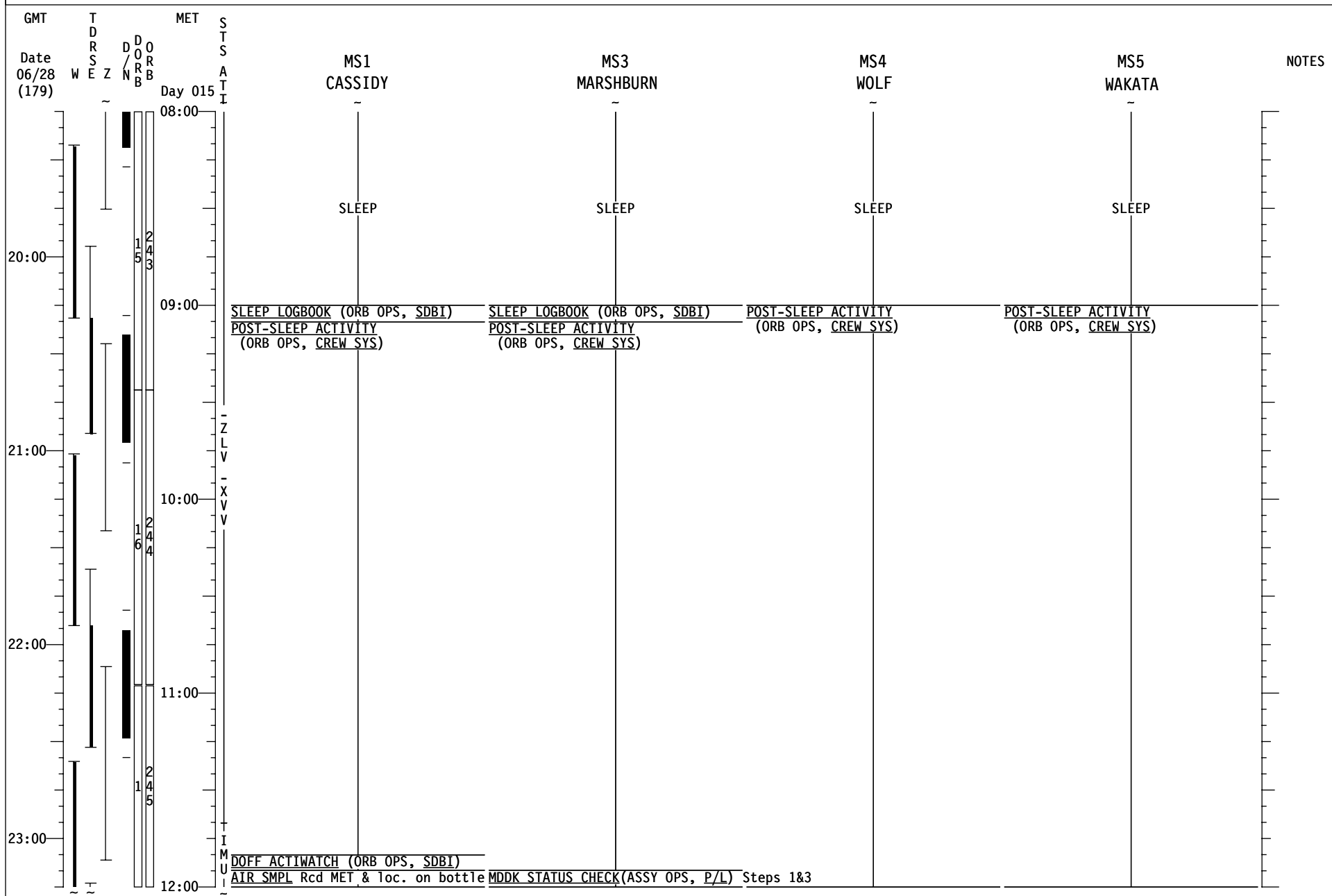
STS-127 FD (16)



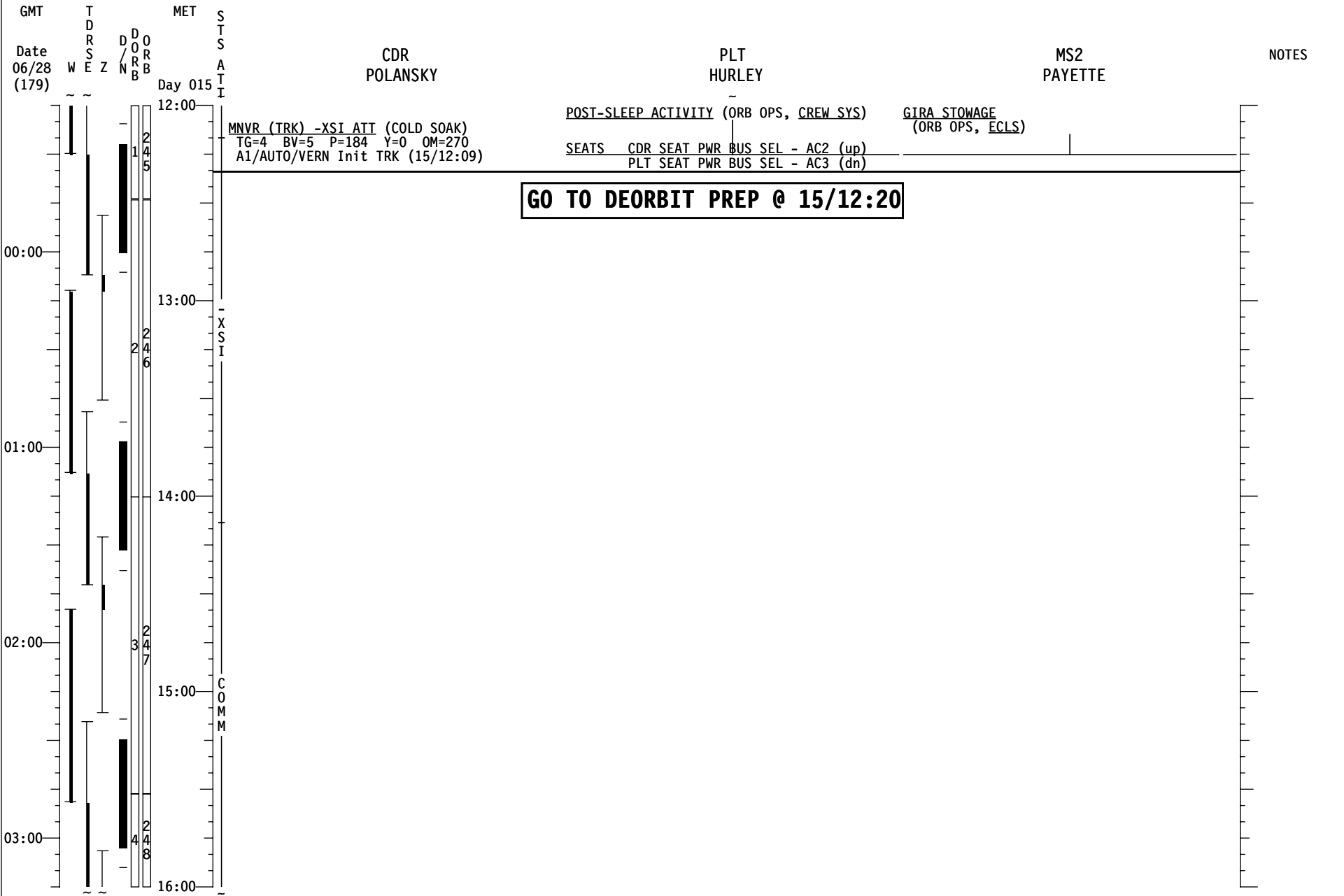
STS-127 FD (17)



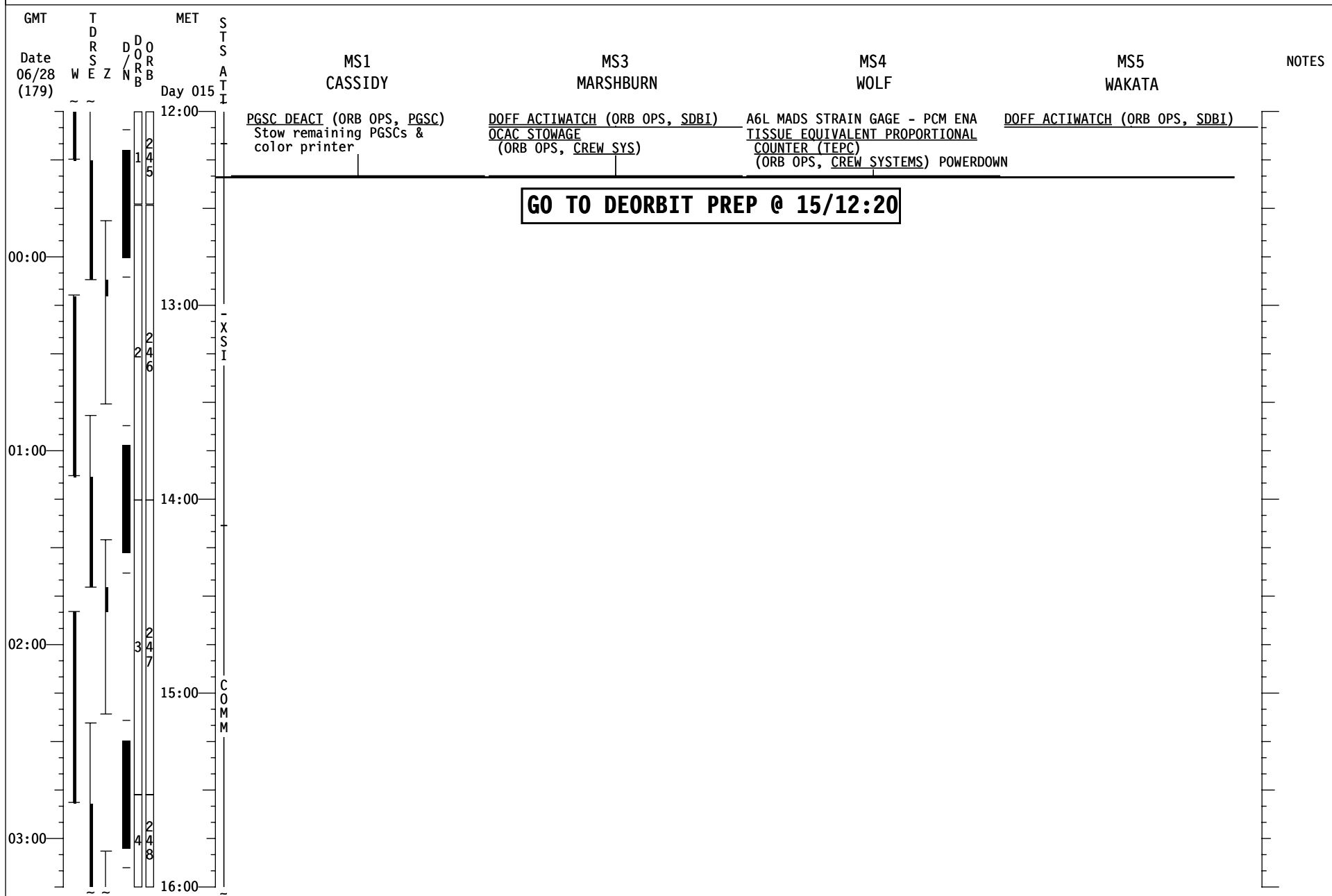
STS-127 FD (17)



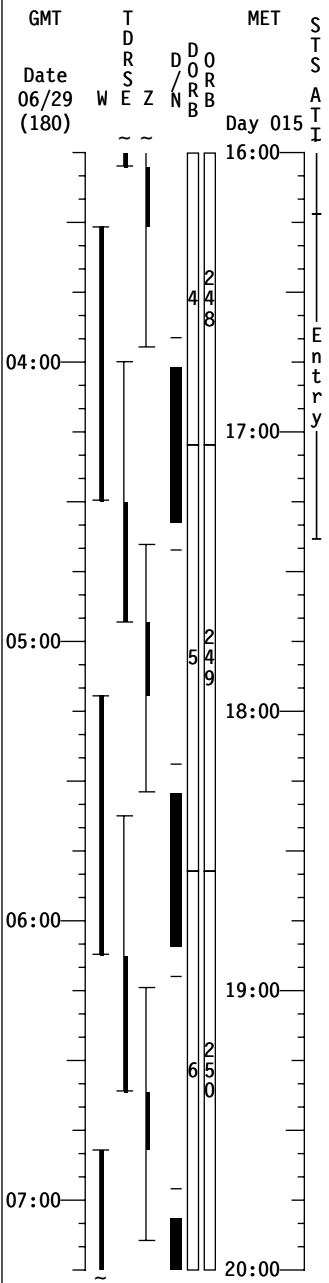
STS-127 FD (17)



STS-127 FD (17)



STS-127 FD (17)



**CDR
POLANSKY**

**PLT
HURLEY**

**MS2
PAYETTE**

NOTES

A IMU STAR ALIGN PAD

ID: -Y: 25, REGULUS
MET (15/11:42 TO 15/12:35)

ID: -Z: 34, MIAPLACIDUS
MET (15/11:43 TO 15/12:31)

ANG DIFF: 82.3

<u>DUAL S TRKR ALIGNMENT</u>	2nd ATTITUDE (SINGLE S TRKR)
	-Z: 25 -Y: 34

R 160	R 91	226
P 175	P 192	153
Y 310	Y 300	305

REQD ID:

-Y: ____, -Z: ____, ANG ERR ____, ____

ANG: 1 2 3

ΔX () ____, ____, () ____, ____, () ____, ____,
 ΔY () ____, ____, () ____, ____, () ____, ____,
 ΔZ () ____, ____, () ____, ____, () ____, ____,

EXECUTION TIME: __/__:__:__ MET

B IMU VERIFICATION STAR ALIGN PAD

ID: -Y: 41, DENEbola
MET (15/11:55 TO 15/12:45)

ID: -Z: 66, EPSILON SCORPII
MET (15/12:00 TO 15/12:45)

ANG DIFF: 86.5

<u>DUAL S TRKR ALIGNMENT</u>	2nd ATTITUDE (SINGLE S TRKR)
	-Z: 41 -Y: 66

R 257	R 177	353
P 269	P 281	283
Y 322	Y 333	312

REQD ID:

-Y: ____, -Z: ____, ANG ERR ____, ____

ANG: 1 2 3

ΔX () ____, ____, () ____, ____, () ____, ____,
 ΔY () ____, ____, () ____, ____, () ____, ____,
 ΔZ () ____, ____, () ____, ____, () ____, ____,

EXECUTION TIME: __/__:__:__ MET



FLIGHT PLAN

**STS
127**