

Flight Plan

STS-125

May 12, 2009 Launch Minus 35 Days Trajectory

Mission Operations Directorate Operations Division

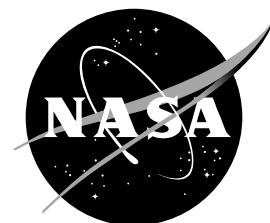
Final, Rev A
April 23, 2009

For the latest working copy of the Flight Plan, visit
<http://mod.jsc.nasa.gov/do4/flightplan/main/fp.cfm?id=125>

<u>EVENT</u>	<u>FD</u>	<u>MET</u>	<u>DATE</u>	<u>CDT</u>	<u>GMT</u>
Launch	01	00/00:00	5/12/2009	12:31	132/17:31
OMS-2	01	00/00:43	5/12/2009	13:14	132/18:14
OBSS Survey	02	00/19:00	5/12/2009	07:31	133/12:31
HST Grapple	03	01/21:46	5/13/2009	10:17	134/15:17
EVA 1	04	02/17:15	5/14/2009	05:46	135/10:46
EVA 2	05	03/17:15	5/15/2009	05:46	136/10:46
EVA 3	06	04/17:15	5/16/2009	05:46	137/10:46
EVA 4	07	05/17:15	5/17/2009	05:46	138/10:46
EVA 5	08	06/17:15	5/18/2009	05:46	139/10:46
HST Release	09	07/17:45	5/19/2009	05:46	140/10:46
Late Inspection	09	07/21:40	5/19/2009	10:11	140/15:11
Deorbit	12	10/19:18	5/22/2009	07:49	143/12:49
Landing	12	10/20:27	5/22/2009	08:58	143/13:58

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas



Verify this is the correct version for the pending operation (training, simulation or flight).
Electronic copies of FDF books are available. URL: <http://mod.jsc.nasa.gov/do3/FDF/index.html>

MISSION OPERATIONS DIRECTORATE

**FLIGHT PLAN
STS-125**

FINAL, REVISION A
April 23, 2009

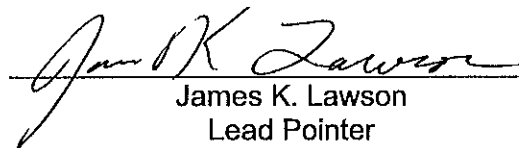
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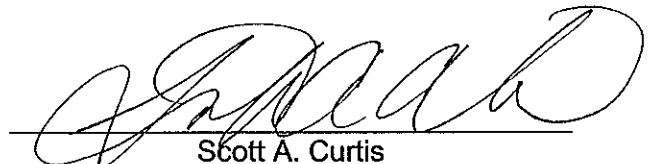


James K. Lawson
Lead Pointer

APPROVED BY:



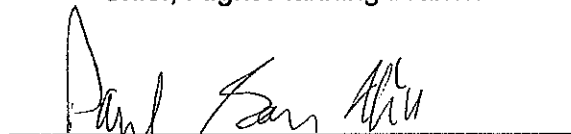
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482#: FLT PLN-2073

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Timeline Support	DO4/D. Segrera	281-483-0017
Lead Pointer	DO4/J. Lawson	281-244-1222

FLIGHT PLAN
STS-125

LIST OF EFFECTIVE PAGES

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REV A 04/23/09

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ii.....	*	125/FIN A	3-16	125/FIN A
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iv.....	*	125/FIN A	3-18	125/FIN A
v	*	125/FIN A	3-19	125/FIN A
vi.....	*	125/FIN A	3-20	125/FIN A
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* – Omit from flight book

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INTRODUCTION

The STS-125 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 timelines and procedures are contained in the Rendezvous Checklist. The deploy procedures required during the deploy timeframe are in the STS-125 HST Deploy Checklist. The detailed EVA task timelines and procedures are contained in the EVA Checklist.

The Servicing Mission Integrated Timeline (SMIT) Launch Update #4, dated April 17, 2009 was used in the development of these timelines.

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

- NSTS-07700 Vol III, Flight Definition and Requirements Document
- NSTS-17462-125, STS-125 Flight Requirements Document
- NSTS-37326, Shuttle Crew Scheduling Constraints, Revision B
- NSTS-14009, Hubble Space Telescope Payload Integration Plan and Annex 2, Part II
- NSTS-21417, IMAX Cargo Bay Camera 3D Payload Integration Plan and Annex 2, Part II

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-125 Flight Plan is based on a launch date of May 12, 2009 at 17:31 GMT (12:31 PM CDT), which is 20 minutes after the opening of the window. 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 mission objectives:

CR # S063947: 2.3.1.1 Interruption during the last 1.5 hours of Pre-sleep on flight days 4 through 8 for CDR

CR # S063948: 2.3.1 (a) Less than the 2 hour minimum Post-sleep on flight days 4 through 8 for EVA and IV crewmembers

CR # S070013: 2.3.1 (a) Less than the 2 hour minimum Post-sleep on flight day 3 for CDR and PLT

CR # S070014: 2.3.1 (d) Less than 5 hr Pre and Post-sleep aggregate on flight day 9 for MS2

CR # S070015: 2.3.1.1 Interruption during last 1.5 hours of Pre-sleep on flight day 9 for MS3, MS5

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

<http://mod.jsc.nasa.gov/do4/flightplan/main/fp.cfm?id=125>

Non-flown sections that are no longer published:

- Attitude Timeline
- Ku-Band Antenna Masking Plan
- Flight Plan Notes
- Flight Plan Walkthrough

OVERVIEW TIMELINE

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STS-125/HST SM4 Overview Timeline with 1 OA Burn 11+2 Day (5 EVAs) - Launch: 12 May 2009, GMT 17:31

Window Open = GMT 17:11

		MET	0/-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	00/0	1	2	3	4	5	6	7	8	9	10	11	12	13						
FD 01	STS Crew													ASC	Post Insert	RMS/SSE C/O Setup	Survey					SLEEP											
	Orb Att													ASC	-ZLV -XVV	NC-1																	
		^ NC1 03:53																															
FD 02	STS Crew														FSS Prep, EMU C/O	Meal	FD2 Setup, P/TV Setup																
	Orb Att														-ZLV -XVV	NC-2	Bias +XSI	+XSI	Bias +XSI	-ZLV -XVV	NC-3												
		^ NC2 16:25 ^ 10.2 Depress ^ NC3 04:40																															
FD 03	STS Crew														RNDZ	Berth	HST Survey	EVA 1 PROC R/W															
	Orb Att														-XVV	-YLV -ZVV	NH	RNDZ	FREE	Bias +XSI													
		17:07 NH ^ ^ NC4 17:55 ^ TI 19:33 ^ Grapple 21:46																															
FD 04	STS Crew														EVA Prep	EVA 1 (WFC 3, SI C&DH, LOCKs)			Post EVA	EVA 2 PROC R/W													
	Orb Att														-ZLV -XVV	Sun Protect																	
		-V3 Axis FWD																															
FD 05	STS Crew														EVA Prep	EVA 2 (RSU, Bay 2 Battery)			Post EVA	EVA 3 PROC R/W													
	Orb Att														-XVV	-ZLV +YVV	-XVV	Sun Protect	-ZLV -XVV	Bias -XSI													
		-V3 Axis FWD																															
FD 06	STS Crew														EVA Prep	EVA 3 (COS, ACS Part 1)			Post EVA	EVA 4 PROC R/W													
	Orb Att														Bias -ZLV -XVV	Sun Protect																	
		-V3 Axis FWD																															
FD 07	STS Crew														EVA Prep	EVA 4 (STIS, NOBL 8)			Post EVA	EVA 5 PROC R/W													
	Orb Att														-ZLV -XVV	Sun Protect	-XVV	-ZLV +YVV															
		+V2 Axis FWD																															
FD 08	STS Crew														EVA Prep	EVA 5 (Bay 3 Battery, FGS-2, NOBL 5)			Post EVA	RNDZ													
	Orb Att														-ZLV -XVV	Sun Protect	-ZLV -XVV	Bias -XSI															
		-V3 Axis FWD																															
FD 09	STS Crew														HST Release Ops	FSS Stow	OA Meal	OBSS U/B	STBD Wing Survey	Nose Tool Stow	Port Wing Survey												
	Orb Att														Bias -XSI	Release/Sep	OA	-XVV	Bias +XSI	+XSI	Bias +XSI												
		Release 17:45 ^ OA 19:50 ^ ^ 14.7 Repress																															
FD 10	STS Crew														OBSS Berth	OFF DUTY	Meal																
	Orb Att														-XVV	-YLV -ZVV																	
		-ZLV -XVV																															
FD 11	STS Crew														Filter Clean	FCS C/O	RCS	Pilot Ops	Meal	Cbn Stow	P A O	Cbn Stow	P A O	Cabin Stow									
	Orb Att																																
		-ZLV -XVV																															
FD 12	STS Crew														IMU	Deorbit Prep	Entry																
	Orb Att														-XVV	IMU	-XSI	Comm	Ent														
		TIG 10/19:18 ^ ^ 10/20:27 KSC Landing																															

		MET	XX/13	14	15	16	17
KEY	STS				^ 14:00		^ 16:30
	Orb Att						

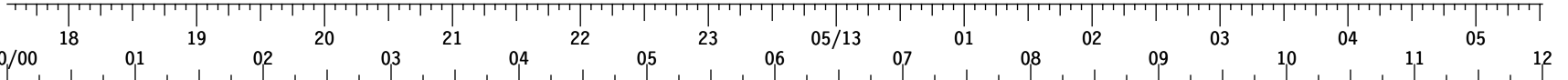
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SUMMARY TIMELINE

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FD01

GMT 05/12/09 (132)
 β = -9
 MET Day 000



S T S - 1 2 5	CDR/R2 ALTMAN		POST INSERTION	SSE ACT	AFT CO	ELVEPK	BLEED	DAP	NC1	RCS BURN	MNR*	IMU	SSE C/O	GP RPRDN	WAP	TPMC CA/G	PRE SLEEP	SLEEP		MNVR	
	PLT/R3 JOHNSON		POST INSERTION		P/TV01 VIDEO SETUP				RCS BURN	P/TV02 S/U			P/TV02 SSE SURVEY	GP RPRDN	IMC BTCC*		PRE SLEEP	SLEEP			
	MS1/EV4/R2 GOOD	L A U N C H	O M S 2	POST INSERTION		PGSC SETUP							CREW CABIN SRVY	HDTV ET VID D/L			PRE SLEEP	SLEEP			
	MS2/R1 McARTHUR			POST INSERTION	RMS*	RMS RUP				RPS MLU SB		GIRA INSTALL		SEE SETUP	WAP TU#		PRE SLEEP	SLEEP			
	MS3/EV1 GRUNSFELD			POST INSERTION	SSE ACT	TEPC	BSA INSTL & CNFG				ETD/L		SSE C/O				PRE SLEEP	SLEEP			
	MS4/EV3/R2 MASSIMINO			POST INSERTION		RMS RUP					RPS MLU SB		CREW CABIN SRVY		WATCH		PRE SLEEP	SLEEP			
	MS5/EV2 FEUSTEL			POST INSERTION		PGSC SETUP						WLES ACT	UMB WELL DOWN LOAD				PRE SLEEP	SLEEP			
HST CMD																		SI & NSSC-1 CONFIG			
DAY/NIGHT ORBIT																					
S T S	TDRS	W E Z																			
	ORB ATT		ASCENT																		
HST	HST ATT																				
	SA ANGLE																				
NOTES																					

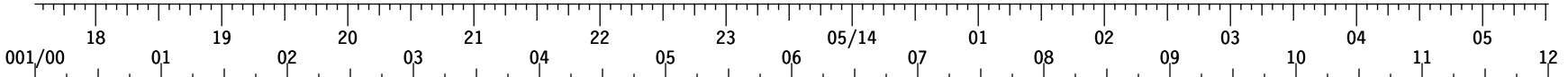
*ON-ORBIT INIT *-ZLV -XVV *ACT #RECONFIG

FD02

GMT 05/13/09 (133)

β = -10

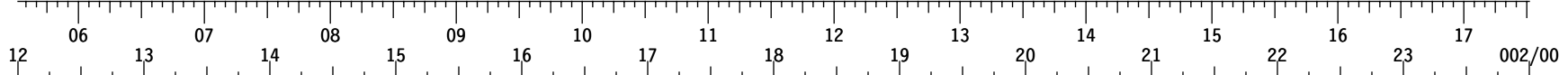
MET Day 001



S T S - 1 2 5	CDR/R2 ALTMAN	C N F G	W E S S I	ERG SETUP	FILTERING		Z L V V	X V V	PRE SLEEP	1 0 2 M	F E D S A P	NC3* RCS BURN	M N V R *	PRE SLEEP	PMC A/G	PRE SLEEP	SLEEP								
	PLT/R3 JOHNSON	C N F G	P/TV09 ICBC3D SETUP	I A C U B D I C O	P/TV01 VIDEO SETUP			PRE SLEEP	OMS POD SRVY	P S R L E E P	RCS BURN	PRE SLEEP*			SLEEP										
	MS1/EV4/R2 GOOD	PORT BELLY TILE SRVY		PORT WING RCC SRVY	T S R V Y	OBSS BERTH		PRE SLEEP	RNDZ TOOLS C/O	PRE SLEEP			SLEEP												
	MS2/R1 McARTHUR	PORT BELLY TILE SRVY		PORT WING RCC SRVY	T S R V Y	F C R Y O 0 2 P R S N S R C K	P S R L E E P	FCMS OPS	PRE SLEEP		O C A #	PRE SLEEP*			SLEEP										
	MS3/EV1 GRUNSFELD		ERG SETUP	NLP ACT	EXERCISE		PRE SLEEP			LDR1 DNLK	PRE SLEEP			SLEEP											
	MS4/EV3/R2 MASSIMINO	PORT BELLY TILE SRVY		PORT WING RCC SRVY	T S R V Y	OBSS BERTH		PRE SLEEP			SLEEP														
	MS5/EV2 FEUSTEL		P/TV09 ICBC3D SETUP	EXERCISE		PRE SLEEP	M L E S	RNDZ TOOLS C/O	PRE SLEEP		O C A #	PRE SLEEP			SLEEP										
H S T	HST CMD	SSR PLAYBACK						CLS DOOR	D U M P	D U M P	HST TO RNDZ ATT	HST LGA DRCT TDRS	3 GYRO OPS RECONFIG		H/W CNTRL	LOAD MACROS & SPCS									
S T S	DAY/NIGHT ORBIT	[Timeline bars for Day/Night and Orbit]																							
	TDRS W E Z	[Timeline bars for TDRS W, E, Z]																							
HST	ORB ATT	BIAS +XSI																							
	HST ATT	-ZLV -XVV																							
HST	SA ANGLE	SMS DEFINED																							
		SUN TRACK																							
NOTES		*10.2 DPRS																							
		*ZLV -XVV & FUT LOAD																							
		#PL MAX																							
		*CNTLR SWAP																							
		*HUM SEP																							
		RNDZ																							

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 MET Day 001

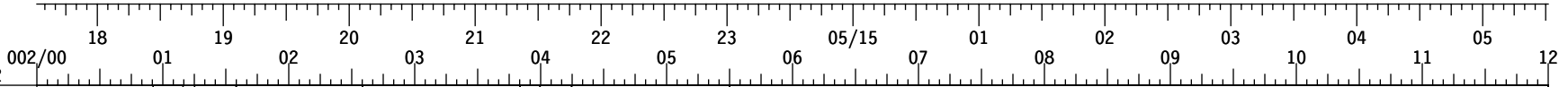


S T S - 1 2 5	CDR/R2 ALTMAN	SLEEP	MNVR	POST SLEEP	10.2M GPRRUP	NH^	NC4^	HST RNDZ OPS	10.2M GPRRUP	Ti^	HST RNDZ OPS	HST BERTH	TRXSI	EXT PWR ACT	IRMU	PR RD N					
	PLT JOHNSON	SLEEP		POST SLEEP	10.2M GPRRUP			HST RNDZ OPS				P/TV04 HST BERTH	ICBC 1	P/TV05 -V3 SURVEY							
	MS1/EV4 GOOD	SLEEP		POST SLEEP				MDDK PREP			EXERCISE	HST RNDZ OPS	HST BERTH			PR RD N					
	MS2/R1 McARTHUR	SLEEP		SIMO INIT	POST SLEEP	WT AER STME	POST SLEEP	STC PLRYM	POST SLEEP		EXERCISE	MCIU	HST RNDZ OPS	HST BERTH		BERTHED HST SURVEY					
	MS3/EV1 GRUNSFELD	SLEEP		POST SLEEP				MDDK PREP		EVA 1 TOOL CONFIG	D2X CAMR S/U	EXERCISE	HST RNDZ OPS	HST BERTH	EXT PWR ACT						
	MS4/EV3/R2 MASSIMINO	SLEEP		POST SLEEP				MDDK PREP		EVA 1 TOOL CONFIG		EXERCISE	HST RNDZ OPS*	HST BERTH		BERTHED HST SURVEY					
	MS5/EV2 FEUSTEL	SLEEP		POST SLEEP		OC A#	POST SLEEP	HST RNDZ OPS	MDDK PREP		EXERCISE	P/TV 04 S/U	P/TV04 HST RNDZ	P/TV04 HST BERTH							
H S T	HST CMD	PREP FOR HGA RTRCT	HGA RTRCT				SA SLEW (90)			FG EV*	RE DU CI	PSP BY- PASS	CN FG*	F W D	HST TO CPTR ATT	AS FE A	H D S T I F T	PI	HST EXTRNL PWR ACT	OF T A E*	
S T S	DAY/NIGHT ORBIT	[Timeline bars for Day/Night/Orbit]																			
	TDRS W E Z	[Timeline bars for TDRS W E Z]																			
	ORB ATT	[Timeline bars for ORB ATT]																			
HST	HST FWD AXIS SA ANGLE	[Timeline bars for HST FWD AXIS SA ANGLE]																			
	NOTES	*HTR RECONFIG #CH 2 *OFF *CAPTURE OPS *ON																			

***1/21:46**

FD03

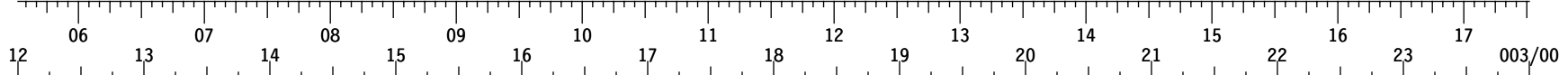
GMT 05/14/09 (134)
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 MET Day 002



S T S - 1 2 5	CDR/R2 ALTMAN		Z L V V	SA SLEW (0)	EVA 1 PROCEDURE RVW	PRE SLEEP	1 0 2 M	PMC A/G	PRE SLEEP	SLEEP
	PLT JOHNSON	P/TV05 -V3 SURVEY	0 3 S /	P/TV 03 SA SLEW	EVA 1 PROCEDURE RVW	PRE SLEEP	H P D L P T Y S V B K		PRE SLEEP	SLEEP
	MS1/EV4 GOOD				EVA 1 PROCEDURE RVW	PRE SLEEP				SLEEP
	MS2/R1 McARTHUR	BERTHED HST SURVEY	P A R K		EVA 1 PROCEDURE RVW	PRE SLEEP	P D I P *		PRE SLEEP	SLEEP
	MS3/EV1 GRUNSFELD			SA SLEW (0)	EVA 1 PROCEDURE RVW	PRE SLEEP	P I *			SLEEP
	MS4/EV3/R2 MASSIMINO	BERTHED HST SURVEY	P A R K		EVA 1 PROCEDURE RVW	PRE SLEEP				SLEEP
	MS5/EV2 FEUSTEL				EVA 1 PROCEDURE RVW	PRE SLEEP	O C A #		PRE SLEEP	SLEEP
H S T	HST CMD	O E A 2	O S P A	SA SLEW (0)			KU BAND C/O	SSR ENGR PLAY BACK		
S T S	DAY/NIGHT ORBIT									
	TDRS W E Z									
	ORB ATT	-BIAS -XSI -ZLV -XVV								
HST	HST FWD AXIS SA ANGLE	90 deg -V3 FWD 0 deg								
NOTES	*CONFIG *OFF #PL MAX									

FD04

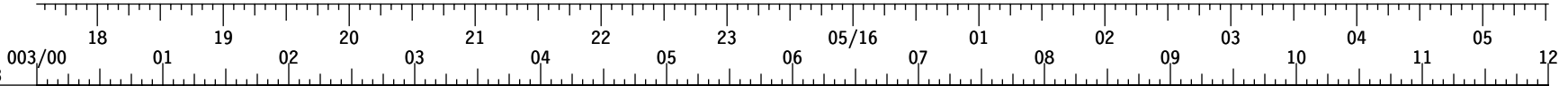
GMT 05/15/09 (135)
 β = -9
 MET Day 002



S T S - 1 2 5	CDR/R2 ALTMAN	SLEEP	LOG POST SLEEP	PMC A/G	POST SLEEP	10:2 M	POST SLEEP	FESI	G2 EXP	PVT	03 S/U	SP UNT SET	SP UNT RST	SP UNT SET	SP UNT RST	-- ZLVV	EXERCISE	IMU
	PLT JOHNSON	SLEEP	POST SLEEP	EVA PREP	P/TV 06 S/U	P/T V03	P/T V03	P/TV06 EVA 1 OPS	IC BC 2	IC BC 3	PO /T V06	IC BC 4	P/TV06 EVA 1 OPS	EXERCISE				
	MS1/EV4 GOOD	SLEEP	POST SLEEP	EVA PREP	PURGE	EMU PRE BREATHE	DP PS	IVA EVA 1 SUPPORT	EXERCISE	PR PS	PR PS	PR PS	PR PS	PR PS				
	MS2/R1 McARTHUR	SLEEP	LOG POST SLEEP	OC A*	POST SLEEP	EXERCISE	PVT	MCIU	RMS MFR SETUP	RMS WFC 3 SUPPORT	RMS SI C&DH SUPPORT	RMS LOCK INSTL SPRT	MFR EGRS	PAR K				
	MS3/EV1 GRUNSFELD	SLEEP	AS PRN	POST SLEEP	EVA PREP	PURGE	EMU PRE BREATHE	DP PS	EGRESS & SETUP	WFC 3	SI C&DH	SCM & LOCKS	CLOSEOUT & INGRESS	PR PS	PR PS			
	MS4/EV3 MASSIMINO	SLEEP	POST SLEEP	EVA PREP	PURGE	EMU PRE BREATHE	DP PS	EVA 1 (6:30)		IVA EVA 1 SUPPORT	EXERCISE	IVA EVA 1 SUPPORT	PR PS	PR PS				
	MS5/EV2 FEUSTEL	SLEEP	AS PRN	POST SLEEP	EVA PREP	PURGE	EMU PRE BREATHE	DP PS	EGRESS & SETUP	WFC 3	SI C&DH	SCM & LOCKS	CLOSEOUT & INGRESS	PR PS	PR PS			
H S T	HST CMD	SSR ENGR PLAY BACK						WP FR CE 3P		WFC 3*	SC & DH		SI C& DH	A/ T		SI C&DH F/T		
S T S	DAY/NIGHT ORBIT	39 40 41 42 43 44 45 46																
	TDRS W E Z	[Timeline bars for TDRS W, E, Z]																
	ORB ATT	-ZLV -XVV SUN PROTECT -ZLV -XVV																
HST	HST FWD AXIS SA ANGLE	-V3 FWD 0 deg																
	NOTES	*CH 2 *85 DEG *90 DEG *A/T																

FD04

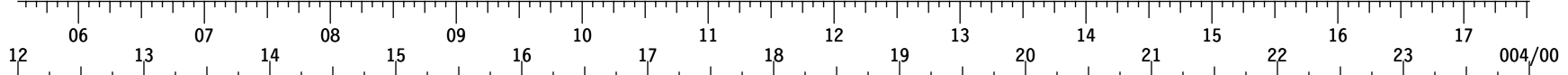
GMT 05/15/09 (135)
 β = -9
 MET Day 003



S T S - 1 2 5	CDR/R2 ALTMAN	10-2 CON		F M U N T R	EVA 2 PROCEDURE RVW	F E S T	PRE SLEEP	P M C A / G	PRE SLEEP	10-2 M	SLEEP	
	PLT JOHNSON	EXER CISE	NLP TERM	H B I L A N / T T I P T T G T	I H C D B T C V	EVA 2 PROCEDURE RVW	PRE SLEEP	B A I T *	PRE SLEEP		SLEEP	
	MS1/EV4 GOOD	POST EVA W/H2O	EMU SWAP	R E B A - I	P S L E E P	EVA 2 PROCEDURE RVW		PRE SLEEP			SLEEP	
	MS2/R1 McARTHUR					EVA 2 PROCEDURE RVW	PRE SLEEP	P D I P +	PRE SLEEP		SLEEP	
	MS3/EV1 GRUNSFELD	POST EVA W/H2O	EMU SWAP	R E B A - I D 2 X		EVA 2 PROCEDURE RVW		PRE SLEEP			SLEEP	
	MS4/EV3 MASSIMINO	POST EVA W/H2O	EVA 2 TOOL CONFIG			EVA 2 PROCEDURE RVW		PRE SLEEP			SLEEP	
	MS5/EV2 FEUSTEL	POST EVA W/H2O	EVA 2 TOOL CONFIG			EVA 2 PROCEDURE RVW	PRE SLEEP	O C A #	PRE SLEEP		SLEEP	
H S T	HST CMD	S I C & D H F / T D U M P		W F C 3 F U N C T I O N A L T E S T		W F C 3 F / T D U M P		SSR E N G R P L A Y B A C K		B A Y 2	A P C R E S H T	SSR E N G R P L A Y B A C K
S T S	DAY/NIGHT ORBIT		47	48	49	50	51	52	53	54		
	TDRS W E Z											
	ORB ATT											
HST	HST FWD AXIS SA ANGLE										-ZLV -XVV -V3 FWD 0 deg	
	NOTES										*INIT +OFF #PL MAX	

FD05

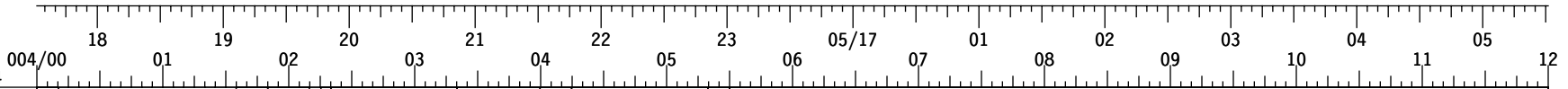
GMT 05/16/09 (136)
 β = -9
 MET Day 003



S T S - 1 2 5	CDR/R2 ALTMAN	SLEEP	POST SLEEP	PMCA/G	MNVR POST SLEEP	POST SLEEP	MCIU	-ZLVV	G2EXP	HLR	REBA-T	FEST	SPURNTCT	SPURNTCT	SPURNTCT	SPURNTCT	SPURNTCT	SPURNTCT	SPURNTCT	EXERCISE	SA SLEW (90)	
	PLT JOHNSON	SLEEP	POST SLEEP	BATT	EVA PREP	P/TV06 S/U	HLR	REBA-T	P/TV06 EVA 2 OPS	ICBC5	ICBC6	ICBC7	P/TV06 EVA 2 OPS	ICBC8	P/TV06 EVA 2 OPS	EXERCISE						
	MS1/EV4 GOOD	SLEEP	POST SLEEP	EVA PREP	PURGE	EMU PRE BREATHE	DRPS	EGRESS & SETUP	RSU R&R	BAY 2 BATTERY R&R	CLOSEOUT & INGRESS	PRPS	PSTEVA									
	MS2/R1 McARTHUR	SLEEP	POST SLEEP	SIMONIT	POST SLEEP	SIMONIT	EXERCISE	EVA SETUP	RMS RSU SUPPORT	RMS BATT 2 SUPPORT	MFR EGRS	PRPS	PSTEVA									
	MS3/EV1 GRUNSFELD	SLEEP	POST SLEEP	EVA PREP	PURGE	EMU PRE BREATHE	DRPS	EVA 2 (6:25)	IVA EVA 2 SUPPORT	EXERCISE	IVA EVA 2 SUPPORT	PRPS	PSTEVA									
	MS4/EV3 MASSIMINO	SLEEP	POST SLEEP	EVA PREP	PURGE	EMU PRE BREATHE	DRPS	EGRESS & SETUP	RSU R&R	BAY 2 BATTERY R&R	CLOSEOUT & INGRESS	PRPS	PSTEVA									
	MS5/EV2 FEUSTEL	SLEEP	POST SLEEP	EVA PREP	PURGE	EMU PRE BREATHE	DRPS	EXERCISE	IVA EVA 2 SUPPORT	PRPS	PSTEVA											
H S T	HST CMD	BAY 2 BATT DISCHARGE		RSU	SACFS*	RSU	RSU	RSU	RSU	BAY 2 BATT C/O PREP	BATT ALIVE TEST	SA SLEW (90)										
S T S	DAY/NIGHT ORBIT	[Timeline bars for Day/Night/Orbit]																				
	TDRS W E Z	[Timeline bars for TDRS W E Z]																				
	ORB ATT	[Timeline bars for Orb Att]																				
HST	HST FWD AXIS SA ANGLE	[Timeline bars for HST FWD AXIS SA ANGLE]																				
NOTES	*CHECK *CH 2 0 deg *PWR DN *PWR ON F/T* -V3 AFT SHROUD DOOR OPEN																					

FD05

GMT 05/16/09 (136)
 β = -8
 MET Day 004



S T S - 1 2 5	CDR/R2 ALTMAN	10-2 M		MRS VVR	SA SLEW (0)	SS VW	EVA 3 PROCEDURE RVW	PRE SLEEP	PMC A/G	PRE SLEEP	10-2 M	SLEEP	
	PLT JOHNSON	EXER CISE	G2 CON	BATT *	HBI /PTT		EVA 3 PROCEDURE RVW	PSB RLA EET ETP		PRE SLEEP		SLEEP	
	MS1/EV4 GOOD	POST EVA W/H2O	LB IANS OTSH &TTL	EMU SWAP	REB A-I	PS RLEE P	EVA 3 PROCEDURE RVW			PRE SLEEP		SLEEP	
	MS2/R1 McARTHUR						EVA 3 PROCEDURE RVW	PRE SLEEP	P DIP +	PRE SLEEP		SLEEP	
	MS3/EV1 GRUNSFELD	POST EVA W/H2O	LB IANS OTSH &TTL	EMU SWAP	REB A-I	D 2X	EVA 3 PROCEDURE RVW			PRE SLEEP		SLEEP	
	MS4/EV3 MASSIMINO	POST EVA W/H2O	EVA 3 TOOL CONFIG		PRE SLEEP		EVA 3 PROCEDURE RVW			PRE SLEEP		SLEEP	
	MS5/EV2 FEUSTEL	POST EVA W/H2O	EVA 3 TOOL CONFIG		PRE SLEEP		EVA 3 PROCEDURE RVW	PRE SLEEP	O C A #	PRE SLEEP		SLEEP	
H S T	HST CMD	BATT FUNCTIONAL TEST		SA SLEW (0)	RSU F/T	RATE GYRO CONFIG			SSR ENGR PLAY BACK				
S T S	DAY/NIGHT ORBIT												
	TDRS W E Z												
	ORB ATT	BIAS -XSI					BIAS -ZLV -XVV						
HST	HST FWD AXIS SA ANGLE	90 deg					-V3 FWD						0 deg
	NOTES	*TERM		*PWR OFF			*INIT +OFF #PL MAX						

FD06

GMT 05/17/09 (137)

β = -7

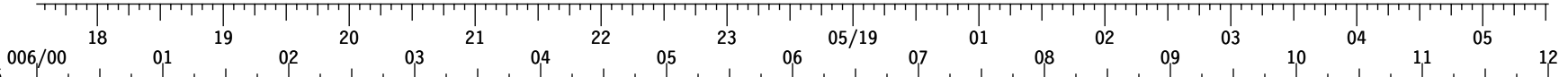
MET Day 005



S T S - 1 2 5	CDR/R2 ALTMAN	10-2 M	ROT*			EVA 4 PROCEDURE RVW	PRE SLEEP	PMC A/G	PRE SLEEP	10-2 M	SLEEP
	PLT JOHNSON	P/TV05 -V2 SURVEY	P/TV03 FSS ROT	BATT#	HBLAN /TTT WCS+	FLTR CLN - INSPECT	EVA 4 PROCEDURE RVW	PRE SLEEP			SLEEP
	MS1/EV4 GOOD	POST EVA W/H2O		LBI OHTT &L	EMU SWAP	REBA-I	EVA 4 PROCEDURE RVW	PRE SLEEP			SLEEP
	MS2/R1 McARTHUR		ROT*				EVA 4 PROCEDURE RVW	PRE SLEEP	PDI P+		SLEEP
	MS3/EV1 GRUNSFELD	POST EVA W/H2O		LBI OHTT &L	EMU SWAP	REBA-I	EVA 4 PROCEDURE RVW	PRE SLEEP			SLEEP
	MS4/EV3 MASSIMINO	POST EVA W/H2O				PS RL EE EP	EVA 4 PROCEDURE RVW	PRE SLEEP			SLEEP
	MS5/EV2 FEUSTEL	POST EVA W/H2O				PS RL EE EP	EVA 4 PROCEDURE RVW	PRE SLEEP	OC A#		SLEEP
H S T	HST CMD	COS F/T		COS F/T DUMP	SI				SSR ENGR PLAY BACK		
S T S	DAY/NIGHT ORBIT	77 78 79 80 81 82 83 84									
	TDRS W E Z	[Timeline bars for TDRS W, E, Z]									
	ORB ATT	-ZLV -XV									
HST	HST FWD AXIS SA ANGLE	-V2 -V3 FWD 0 deg									
	NOTES	*-V3 +FILTER CK *INIT #TERM #PL MAX +OFF									

FD07

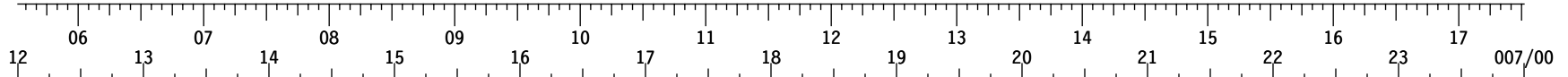
GMT 05/18/09 (138)
 β = -5
 MET Day 006



S T S - 1 2 5	CDR/R1 ALTMAN	MSI NIM RO	10 2 M	G 2 C O N		I M U	-- Z L V V	EVA 5 PROCEDURE RVW	PRE SLEEP	PMC A/G	PRE SLEEP	1 0 2 M	SLEEP				
	PLT JOHNSON	EXERCISE		H B I L A N / T T T G T	W C S #	+V3 SURVEY	I H C D B T C V	EVA 5 PROCEDURE RVW	PRE SLEEP	B A T T #	PRE SLEEP		SLEEP				
	MS1/EV4 GOOD	POST EVA W/H2O		L B I A N O T S H T L &	EMU SWAP	R E B A - I	P R E	EVA 5 PROCEDURE RVW			PRE SLEEP		SLEEP				
	MS2/R2 McARTHUR	SIMO INIT		W T A S R T M E		S T P E L R Y M		EVA 5 PROCEDURE RVW	PRE SLEEP	P D I P +	PRE SLEEP		SLEEP				
	MS3/EV1 GRUNSFELD	POST EVA W/H2O		B A T T * L B I A N O T S H T L &	EMU SWAP	R E B A - I	D 2 X	EVA 5 PROCEDURE RVW			PRE SLEEP		SLEEP				
	MS4/EV3 MASSIMINO	POST EVA W/H2O		EVA 5 TOOL CONFIG		P S R L E E P		EVA 5 PROCEDURE RVW			PRE SLEEP		SLEEP				
	MS5/EV2 FEUSTEL	POST EVA W/H2O		EVA 5 TOOL CONFIG		P S R L E E P		EVA 5 PROCEDURE RVW	PRE SLEEP	O C C A #	PRE SLEEP		SLEEP				
H S T	HST CMD	P S E A	STIS F/T DUMP	A C S					SSR ENGR PLAY BACK		B A Y 3	BAY 3 BATT DISCHARGE					
S T S	DAY/NIGHT ORBIT		92		93		94		95		96		97		98		99
	TDRS W E Z																
	ORB ATT		-ZLV +YVV		MNVR								-ZLV -XVV				
HST	HST FWD AXIS SA ANGLE								+V3 FWD								0 deg
	NOTES		*TERM	#COMPACT					*INIT								+OFF #PL MAX

FD08

GMT 05/19/09 (139)
 β = -4
 MET Day 006

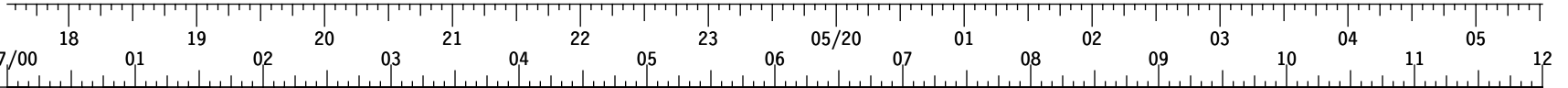


S T S - 1 2 5	CDR/R2 ALTMAN	SLEEP	POST SLEEP	PMC A/G	POST SLEEP	POST SLEEP	EXERCISE	ROT FSS TO +V2	FES - I	G 2 E X P	SP R T N C T	SP R T N C T	SP R T N C T	SP R T N C T	- Z L V V	B U S	FES L I T	HGA D P L Y P A R T 1	RO T *	SA S L E W (90)	T - R X K S I
	PLT JOHNSON	SLEEP	POST SLEEP	B A T T L E	EVA PREP	P/TV 06 S/U	P/TV 03 FSS ROT	H L E P /	R E B E A T	P/TV06 EVA 5 OPS	I C B C 1 5	P/TV06 EVA 5 OPS	I C B C 1 6	P/TV06 EVA 5 OPS	I C B C 1 7	P/TV06 EVA 5 OPS	I C B C 4 B	P/TV 08 S/U	P/TV 08 HGA D P L Y	P/TV 0 2 M	EXER CISE
	MS1/EV4 GOOD	SLEEP	POST SLEEP	A S S E R N	EVA PREP	PURGE	EMU PRE BREATHE	D P R S	E V A S E T U P	IVA EVA 5 SUPPORT			EVA 5 (\$:45)		IVA EVA 5 SUPPORT			R P R S	POST EVA		
	MS2/R1 McARTHUR	SLEEP	POST SLEEP	L O G	POST SLEEP	OC A #	ROT FSS TO +V2	M C I U	E V A S E T U P	RMS BATT 3 SUPPORT	RMS FGS-2 SUPPORT			RMS NOBL 5 SPRT	MFR RELEASE	P A R K	HGA D P L Y P A R T 1	RO T *			
	MS3/EV1 GRUNSFELD	SLEEP	POST SLEEP	A S S E R N	EVA PREP	PURGE	EMU PRE BREATHE	D P R S	E V A S E T U P	BAY 3 BATTERY R&R			FGS-2 R&R		NOBL 5	CLOSEOUT & INGRESS		R P R S	POST EVA		
	MS4/EV3 MASSIMINO	SLEEP	POST SLEEP	A S S E R N	EVA PREP	PURGE	EMU PRE BREATHE	D P R S	E V A S E T U P	IVA EVA 5 SUPPORT	EXERCISE		IVA EVA 5 SUPPORT					R P R S	POST EVA		
	MS5/EV2 FEUSTEL	SLEEP	POST SLEEP	A S S E R N	EVA PREP	PURGE	EMU PRE BREATHE	D P R S	E V A S E T U P	BAY 3 BATTERY R&R			FGS-2 R&R		NOBL 5	CLOSEOUT & INGRESS		R P R S	POST EVA		
H S T	HST CMD	SSR ENGR PLAY BACK						BATT PREP FOR C/O		B A T T E R Y A L E T T E	F G S 2		F A C T O R S 2	F I G S 2	O T A 3	I N T #	HGA D P L Y P A R T 1	SA S L E W (90)	BATT F/T		
S T S	DAY/NIGHT ORBIT	99	100	101	102	103	104	105	106	107											
	TDRS W E Z																				
HST	ORB ATT																				
	HST FWD AXIS SA ANGLE		+V3 FWD	-ZLV -XVV									SUN PROTECT +V2 FWD								
	NOTES			*CHECK #CH 2																#PWR ACT *-V3	

FGS-2 BAY
DOORS OPEN

FD08

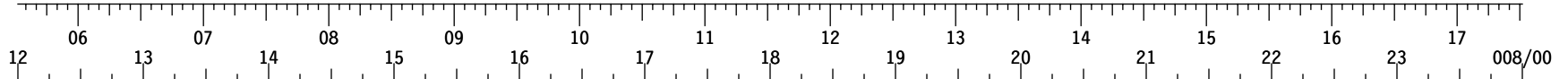
GMT 05/19/09 (139)
 β = -3
 MET Day 007



S T S - 1 2 5	CDR/R2 ALTMAN	G 2 C O N		- Z L V V	F M U N T R	H G A *		P S L E E P	I M P R E S L E E P	P M C O C A		P R E S L E E P		1 0 - 2 M		S L E E P	
	PLT JOHNSON	E X E R C I S E	H B I L A N T I P T T G T		P / T V 08 H G A D P L Y	I C B C		H I T T V	P R E S L E E P		B A T T *		P R E S L E E P			S L E E P	
	MS1/EV4 GOOD	P E V S A T	L B I A N T S H T T L &		E M U S W A P	R E B A - I	R N D Z T O O L S C /						P R E S L E E P			S L E E P	
	MS2/R1 McARTHUR					H G A		E X E R C I S E		P R E S L E E P	P D I P *		P R E S L E E P			S L E E P	
	MS3/EV1 GRUNSFELD	P E V S A T	L B I A N T S H T T L &		E M U S W A P	R E B A - I	D 2 X						P R E S L E E P			S L E E P	
	MS4/EV3 MASSIMINO	B A T T #			E M U S W A P								P R E S L E E P			S L E E P	
	MS5/EV2 FEUSTEL	P E V S A T			E M U S W A P	W L E S	R N D Z T O O L S C /			P R E S L E E P	O C A #		P R E S L E E P			S L E E P	
H S T	HST CMD	B A T T F /		H G A D P L Y P A R T 2		F G S - 2 F /	F G S - 2 A M S F /				S S R E N G R P L A Y B A C K					I I S M A C S I F V S E R I E	
S T S	DAY/NIGHT ORBIT		107		108		109		110		111		112		113		114
	TDRS W E Z		[Bar]		[Bar]		[Bar]		[Bar]		[Bar]		[Bar]		[Bar]		[Bar]
	ORB ATT		-XSI														-ZLV -XVV
HST	HST FWD AXIS SA ANGLE																-V3 FWD 90 deg
	NOTES	*POST EVA #TERM		*DPLY PART 2		*INIT		*OFF #PL MAX									

FD09

GMT 05/20/09 (140)
 β = -2
 MET Day 007

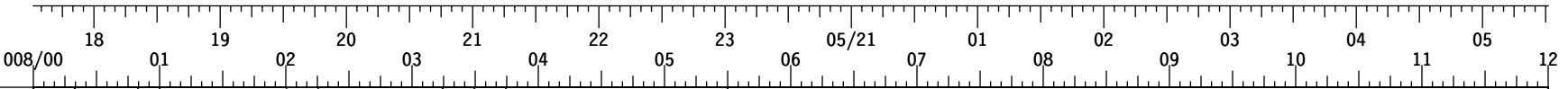


S T S - 1 2 5	CDR/R2 ALTMAN	MNVR SLEEP	MNVR POST SLEEP	GPRUP 102M POST SLEEP	UMBC L HST UNBTH MNVR	HST REL PREP	SEP1 RELEASE OPS	SEP2 RELEASE OPS	FSS STOW	RELNA V OA OMS BURN	GPRUP HTR D N MEAL	MNT V B R D STBD WING RCC SRVY	MNO V S R E NOSE CAP SRVY		
	PLT/R3 JOHNSON	SLEEP	POST SLEEP	P/TVO8 POST SLEEP	ICBC 18 P/TVO8 HST RELEASE		RELEASE OPS	P03 T/S U P/TVO3 FSS OPS	OMS BURN	GPRUP D N MEAL		STBD WING RCC SRVY	NOSE CAP SRVY		
	MS1/EV4/R2 GOOD	SLEEP	POST SLEEP	GPRUP HGRPT L POST SLEEP	EVA PREP	R E L E A S E *	P/TVO8 RELEASE OPS	POST EVA		MEAL	OBSS UNBRTH		EXERCISE	NOSE CAP SRVY	
	MS2/R1 McARTHUR	SLEEP	POST SLEEP	MCIU HGRPT L POST SLEEP	HST UNBTH MNVR		HST REL PREP	RELEASE OPS		EXERCISE	MEAL		STBD WING RCC SRVY	I M U	
	MS3/EV1 GRUNSFELD	SLEEP	POST SLEEP	UMBC L HST UNBTH MNVR	HST REL PREP		RELEASE OPS		FSS STOW	BCO N A N F I G MEAL		EXERCISE	D 2 X EVA TOOL STOW		
	MS4/EV3/R2 MASSIMINO	SLEEP	POST SLEEP	EVA PREP			RELEASE OPS	POST EVA		MEAL	OBSS UNBRTH		EXERCISE		
	MS5/EV2 FEUSTEL	SLEEP	POST SLEEP	OCIA * POST SLEEP	H L R E B A T T E R Y E V A P R E P		EVA PREP	RELEASE OPS	POST EVA	POST DPLY PGSC CNFG	MEAL		EXERCISE	EVA TOOL STOW	
HST CMD	B A T T E R Y E N G I N E R P L A Y B A C K		T R I E M P S E A M S T E S T M O D E	A L T E R N A T E O F F	M A T T E R Y E N G I N E R P L A Y B A C K		D O O P R O O E R N P	P S E A C N F G F L S	P L N G R A M M S E	T R A N S F E R N O R M	H T R E S T E R F H S T A T T	B A T T E R Y F S W R E S T	O O B T A I N E R A D D E R	I H L S T G B U O T A 3 G M B L S	T R S W C C
DAY/NIGHT ORBIT	114	115	116	117	118		119	120	121	122					
TDRS W E Z															
ORB ATT HST ATT SA ANGLE		BIAS -XSI	-V3 FWD	-ZLV -XVV	RMS	HST RLS	+V3 SI	SEP	OA	-ZLV -XVV	BRIGHT EARTH AVOID	BIAS +XSI	+XSI		
NOTES			*CH 2	*CHECK #CONFIG			*NOM CNFG #PWR ON								

***7/17:45**

FD09

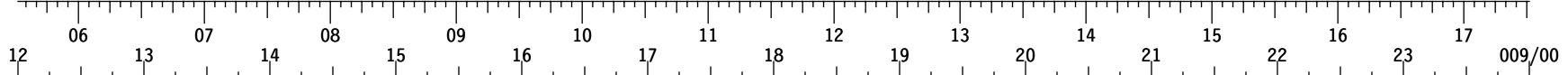
GMT 05/20/09 (140)
 β=0
 MET Day 008



S T S - 1 2 5	CDR/R2 ALTMAN	NOSE CAP SRVY	14.7 RPRS	C N F G	EXERCISE		PRE SLEEP	-- Z L V V	PMC A/G	PRE SLEEP		SLEEP	
	PLT/R3 JOHNSON	NOSE CAP SRVY			EXERCISE		F E S T	B A T T *	I R C C B S C +	PRE SLEEP		SLEEP	
	MS1/EV4/R2 GOOD	NOSE CAP SRVY	PORT WING RCC SRVY		PORT WING RCC SRVY		PRE SLEEP	OBSS IDC RCC SRVY	H O V E R	PRE SLEEP		SLEEP	
	MS2/R1 McARTHUR		P S O R I N O R V I R T Y R T		PORT WING RCC SRVY		PRE SLEEP	OBSS IDC RCC SRVY	H O V E R	PRE SLEEP	P D I P *	PRE SLEEP	SLEEP
	MS3/EV1 GRUNSFELD		EVA TOOL STOW			PRE SLEEP				LDRI DNK	PRE SLEEP		SLEEP
	MS4/EV3/R2 MASSIMINO		PORT WING RCC SRVY		PORT WING RCC SRVY		PRE SLEEP	OBSS IDC RCC SRVY	H O V E R	PRE SLEEP			SLEEP
	MS5/EV2 FEUSTEL		EVA TOOL STOW			PRE SLEEP				O C C A #	PRE SLEEP		SLEEP
H S T	HST CMD			L G B U	2ND ARU ATTITUDE			E P H	U P L N K	B O P		FHST ALIGNMENT	BACKUP FHST ALIGN
S T S	DAY/NIGHT ORBIT												
	TDRS W E Z												
	ORB ATT HST ATT SA ANGLE												
HST													
NOTES	+REG RCNFG *OFF #PL MAX *TERM												

FD10

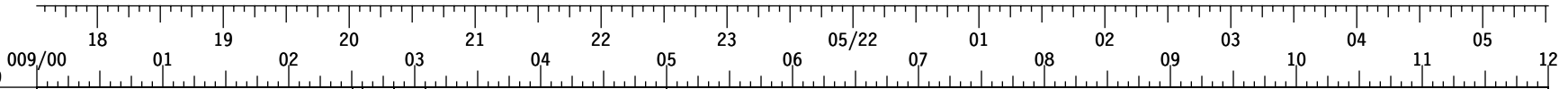
GMT 05/21/09 (141)
 β=1
 MET Day 008



S T S - 1 2 5	CDR/R2 ALTMAN	SLEEP	LOG	POST SLEEP	MS NIM VRO	POST SLEEP			-Z X L V V	F M U N T V R	OFF DUTY	PFC OCA	OFF DUTY	HDTV CREW CONF	MEAL	I C S A L L	-Z X L V V	OFF DUTY	EXERCISE	OFF DUTY		
	PLT JOHNSON	SLEEP	LOG	POST SLEEP		M C I U	POST SLEEP			P S A E O U P	OFF DUTY			HDTV CREW CONF	MEAL	I C S A L L	O D F U F T Y	PFC OCA	OFF DUTY	EXERCISE	OFF DUTY	
	MS1/EV4 GOOD	SLEEP		POST SLEEP				OBSS BERTH		P S O L S E T P	OFF DUTY			HDTV CREW CONF	MEAL	I C S A L L	OFF DUTY	PFC OCA	OFF DUTY	EXERCISE	OFF DUTY	
	MS2/R1 McARTHUR	SLEEP	LOG	POST SLEEP	SIM O I N I T	POST SLEEP	W A E S R M E	P S O L S E T P	S T E P L Y M	POST SLEEP	R P M W R D N	OFF DUTY			HDTV CREW CONF	MEAL	I C S A L L	OFF DUTY		PFC OCA	OFF DUTY	EXERCISE
	MS3/EV1 GRUNSFELD	SLEEP		POST SLEEP								OFF DUTY			HDTV CREW CONF	MEAL	I C S A L L	OFF DUTY			PFC OCA	OFF DUTY
	MS4/EV3/R2 MASSIMINO	SLEEP	LOG	POST SLEEP				OBSS BERTH			R P M W R D N	OFF DUTY			HDTV CREW CONF	MEAL	I C S A L L	OFF DUTY				OFF DUTY
	MS5/EV2 FEUSTEL	SLEEP	LOG	POST SLEEP	O C A *	POST SLEEP						OFF DUTY			HDTV CREW CONF	MEAL	I C S A L L	OFF DUTY				OFF DUTY
S T S	DAY/NIGHT	[Timeline bars for day/night cycle]																				
	ORBIT	[Timeline bars for orbit cycles 130-137]																				
	TDRS W E Z	[Timeline bars for TDRS windows]																				
	ORB ATT	[Timeline bars for orbital attachment events]																				
GND	-ZLV -XVV -YLV -ZVV -ZLV -XVV -MLA -DFR -MLA -DFR -MLA -ZLV -XVV -DFR -MLA																					
NOTES	*CH 2																					

FD10

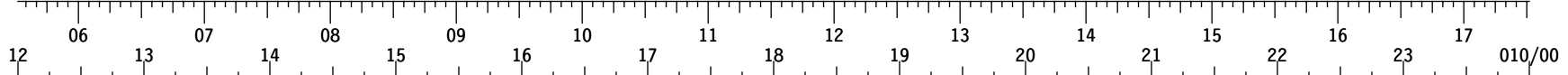
GMT 05/21/09 (141)
 β=2
 MET Day 009



S T S - 1 2 5	CDR/R2 ALTMAN	OFF DUTY			PS IRL ME U P	PMC A/G	PRE SLEEP	SLEEP				
	PLT JOHNSON	OFF DUTY			C O M M 1	H D T V	PRE SLEEP	SLEEP				
	MS1/EV4 GOOD	OFF DUTY					PRE SLEEP	SLEEP				
	MS2/R1 McARTHUR	EXER CISE	OFF DUTY			PRE SLEEP	# D D P	PRE SLEEP	SLEEP			
	MS3/EV1 GRUNSFELD	EXERCISE		OFF DUTY				PRE SLEEP	SLEEP			
	MS4/EV3/R2 MASSIMINO	OFF DUTY	PFC OCA	EXERCISE	OFF DUTY			PRE SLEEP	SLEEP			
	MS5/EV2 FEUSTEL	OFF DUTY		PFC OCA	EXERCISE	PRE SLEEP	# D D P	PRE SLEEP	SLEEP			
S T S	DAY/NIGHT	[Timeline with alternating black and white bars]										
	ORBIT	137	138	139	140	141	142	143	144	145		
	TDRS W E Z	[Timeline with horizontal bars]										
	ORB ATT	-ZLV -XVV										
GND	-DFR -MLA		-DFR									
NOTES	*OFF #PL MAX											

FD11

GMT 05/22/09 (142)
 β=4
 MET Day 009



STS-125	CDR/R2 ALTMAN	SLEEP	LOG	POST SLEEP	POST SLEEP	FCS C/O	RFI CR HOT	PILOT OPS	CABIN STOW	D/O PREP BRIEF	MEAL	FEST	HPE DAV TOE VNT	CP RHO EOW TWO	CABIN STOW	HPE DAV TOE VNT	EXER CISE		
	PLT JOHNSON	SLEEP	LOG	POST SLEEP	FILTER CLEANING	FCS C/O	RFI CR HOT	PILOT OPS	CABIN STOW	D/O PREP BRIEF	MEAL	SD SE VACT	PS AE TUP	HPE DAV TOE VNT	CP RHO EOW TWO	CABIN STOW	HPE DAV TOE VNT	EV SIE DT RE U P	EX ER CISE
	MS1/EV4 GOOD	SLEEP	LOG	POST SLEEP	CABIN STOW	EXERCISE	CABIN STOW	D/O PREP BRIEF	MEAL	L-1 COMM CHK	HPE DAV TOE VNT	CP RHO EOW TWO	CABIN STOW	L-1 COMM CHK	HPE DAV TOE VNT	WD LEA SCT			
	MS2/R1 McARTHUR	SLEEP	LOG	POST SLEEP	FCS C/O	RFI CR HOT	PILOT OPS	CABIN STOW	D/O PREP BRIEF	MEAL	CABIN STOW	HPE DAV TOE VNT	CP RHO EOW TWO	EXERCISE	HPE DAV TOE VNT	CABIN STOW			
	MS3/EV1 GRUNSFELD	SLEEP	LOG	POST SLEEP	EXERCISE	CABIN STOW	D/O PREP BRIEF	MEAL	CABIN STOW	HPE DAV TOE VNT	CP RHO EOW TWO	CABIN STOW	HPE DAV TOE VNT	CABIN STOW					
	MS4/EV3/R2 MASSIMINO	SLEEP	LOG	POST SLEEP	FCS C/O SURVEY	CABIN STOW	EXERCISE	D/O PREP BRIEF	MEAL	CABIN STOW	HPE DAV TOE VNT	CP RHO EOW TWO	CABIN STOW	HPE DAV TOE VNT	CABIN STOW				
	MS5/EV2 FEUSTEL	SLEEP	LOG	POST SLEEP	POST SLEEP	CABIN STOW	EXERCISE	CABIN STOW	D/O PREP BRIEF	MEAL	CABIN STOW	HPE DAV TOE VNT	CP RHO EOW TWO	CABIN STOW	HPE DAV TOE VNT	CABIN STOW			

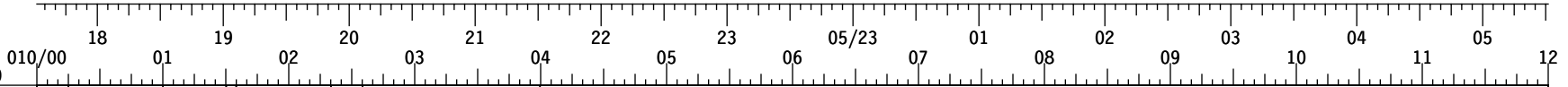
STS	DAY/NIGHT	145	146	147	148	149	150	151	152	153	
	ORBIT	[Timeline bars for orbit]									
	TDRS W E Z	[Timeline bars for TDRS]									
	ORB ATT	[Timeline bars for orb att]									

GND -ZLV -XVV -MLA -DFR -MLA -DFR -MLA -DFR -MLA

NOTES #CH 2 *HEATER ACT

FD11

GMT 05/22/09 (142)
 β=6
 MET Day 010



S T S - 1 2 5	CDR/R2 ALTMAN	EXERCISE	CABIN STOW	ERG STOW	PRE SLEEP	PMC A/G	PRE SLEEP	SLEEP	
	PLT JOHNSON	EXERCISE			PRE SLEEP			SLEEP	
	MS1/EV4 GOOD	POST EVA ENT PREP		KUMARS STOW*	PARL DEEP	COMM 2	PRE SLEEP	SLEEP	
	MS2/R1 McARTHUR	CABIN STOW	LIOH#				PRE SLEEP	SLEEP	
	MS3/EV1 GRUNSFELD	POST EVA ENT PREP		ERG STOW			PRE SLEEP	SLEEP	
	MS4/EV3/R2 MASSIMINO	POST EVA ENT PREP					PRE SLEEP	SLEEP	
	MS5/EV2 FEUSTEL	POST EVA ENT PREP		PGSC STOW PART I			PRE SLEEP	SLEEP	
S T S	DAY/NIGHT	[Timeline with alternating black and white bars]							
	ORBIT	[Timeline with alternating black and white bars]							
	TDRS WEZ	[Timeline with alternating black and white bars]							
	ORB ATT	[Timeline with alternating black and white bars]							
GND	-DFR		-DFR		-ZLV -XVV				
NOTES	*PWR ON #SWAP								

FD12

GMT 05/23/09 (143)
 β=7
 MET Day 010

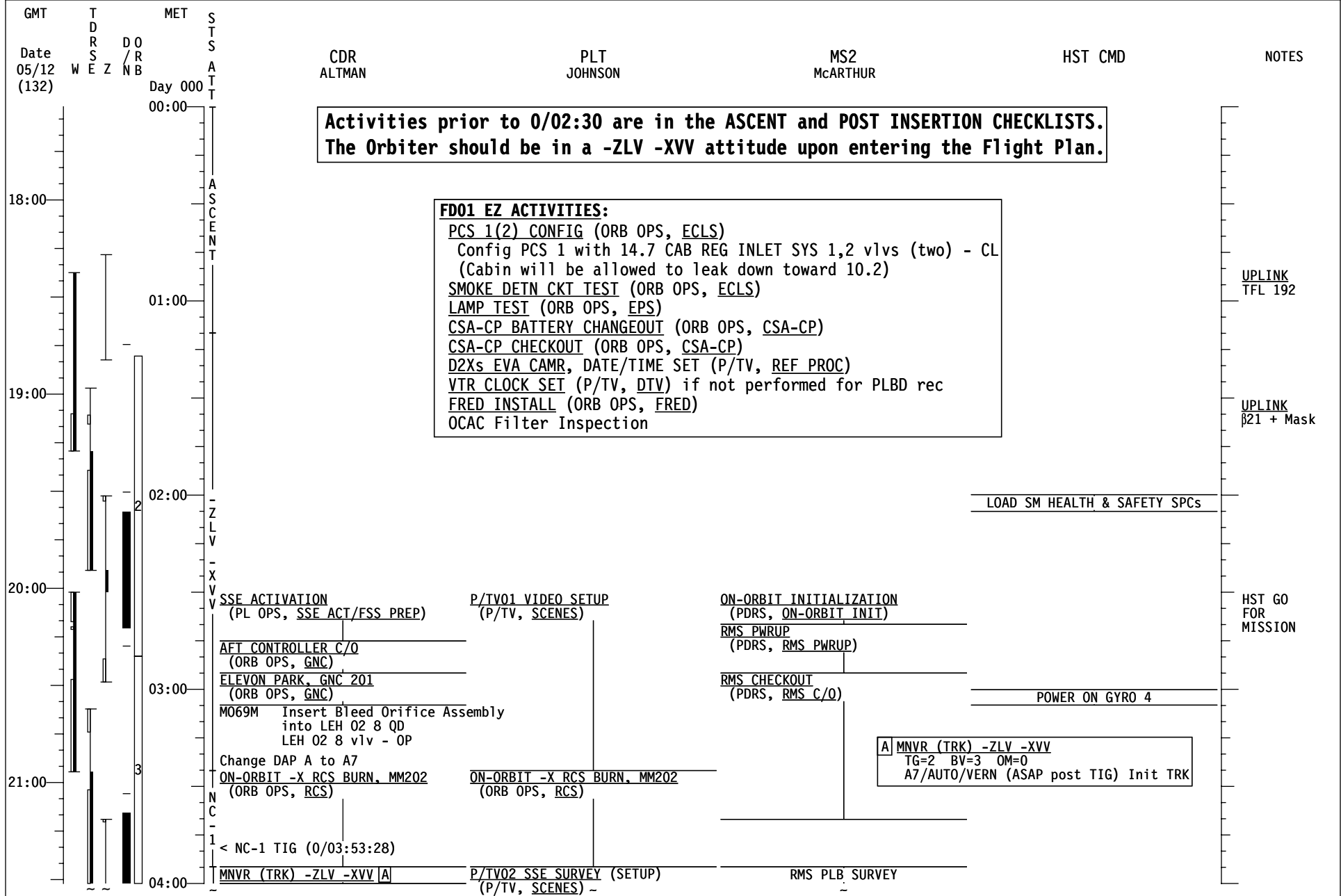


STS-125	CDR/R2 ALTMAN	POST SLEEP	PMC A/G	POST SLEEP	WARRUP TCH	IMU ALIGN	-XSI	DEORBIT PREP		
	PLT JOHNSON	POST SLEEP			WARRUP TCH	PSOL TEC*	IIA CCIO	DEORBIT PREP		K S C D / O T I G * L A N D I N G *
	MS1/EV4 GOOD	POST SLEEP		MAD S*				DEORBIT PREP		
	MS2/R1 McARTHUR	POST SLEEP			GSA ITR AW	MSA TM CP HL	SD SE EA CT	DEORBIT PREP		
	MS3/EV1 GRUNSFELD	POST SLEEP			TP PR CD N	SE EA CT		DEORBIT PREP		
	MS4/EV3/R2 MASSIMINO	POST SLEEP			WARRUP TCH	OST ACT C W		DEORBIT PREP		
	MS5/EV2 FEUSTEL	POST SLEEP			WARRUP TCH	PGSC TSTOW PART H II		DEORBIT PREP		
DAY/NIGHT ORBIT										
TDRS WEZ										
ORB ATT										
GND										
NOTES	*ENABLE *DEACT *D/O TIG 10/19:18 *KSC LANDING 10/20:27									

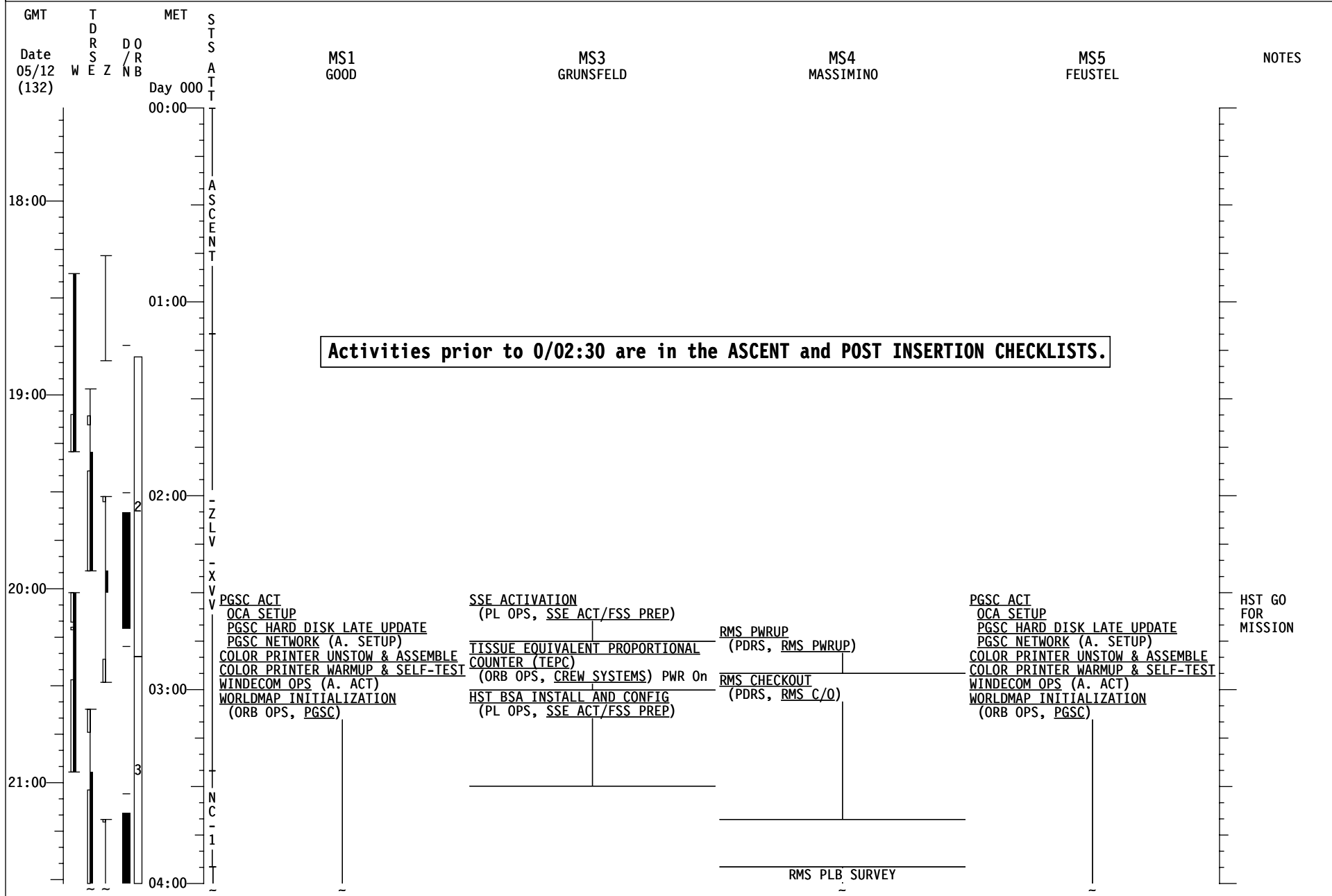
DETAILED TIMELINE

DETAILED
TIMELINE

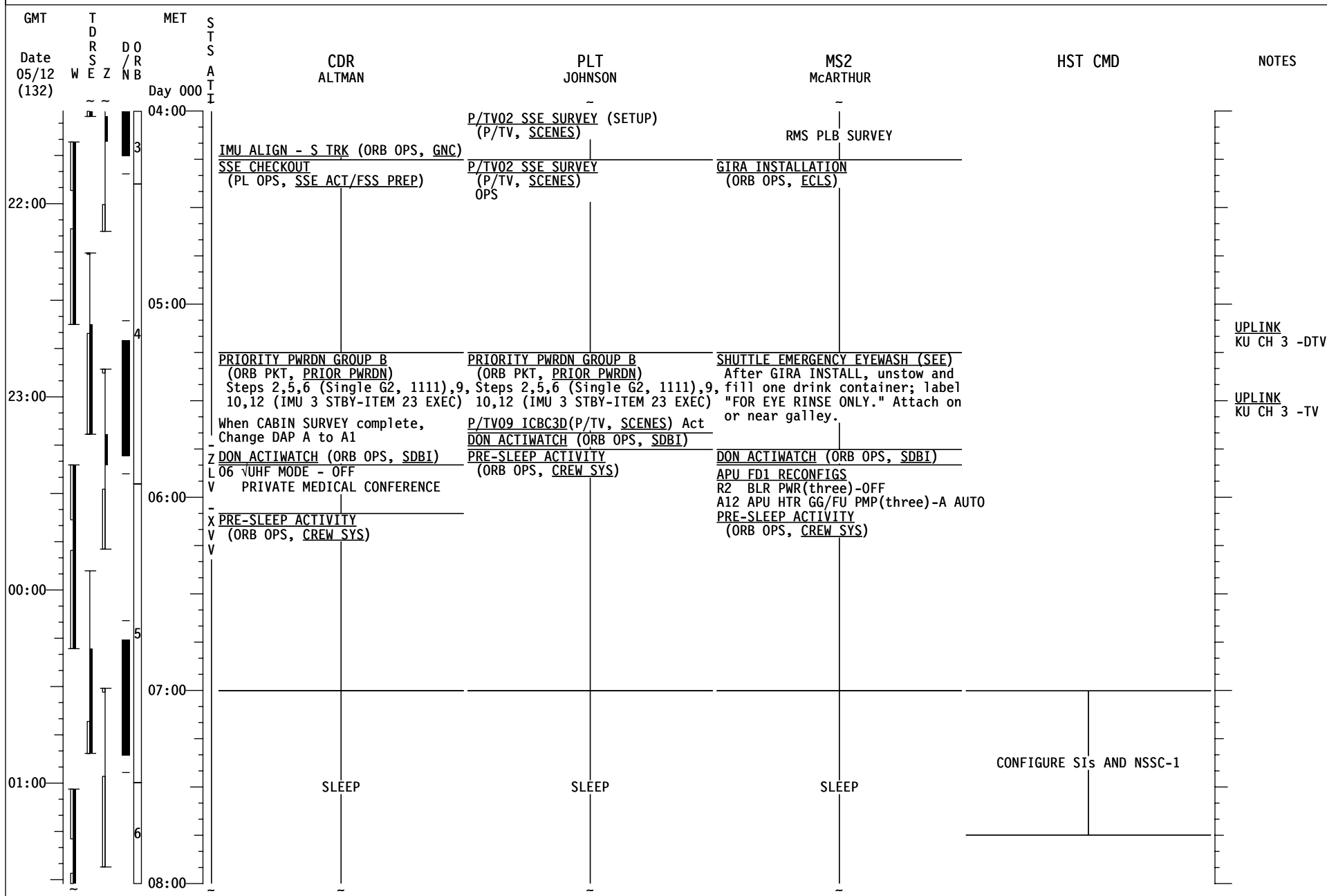
STS-125 (FD01)



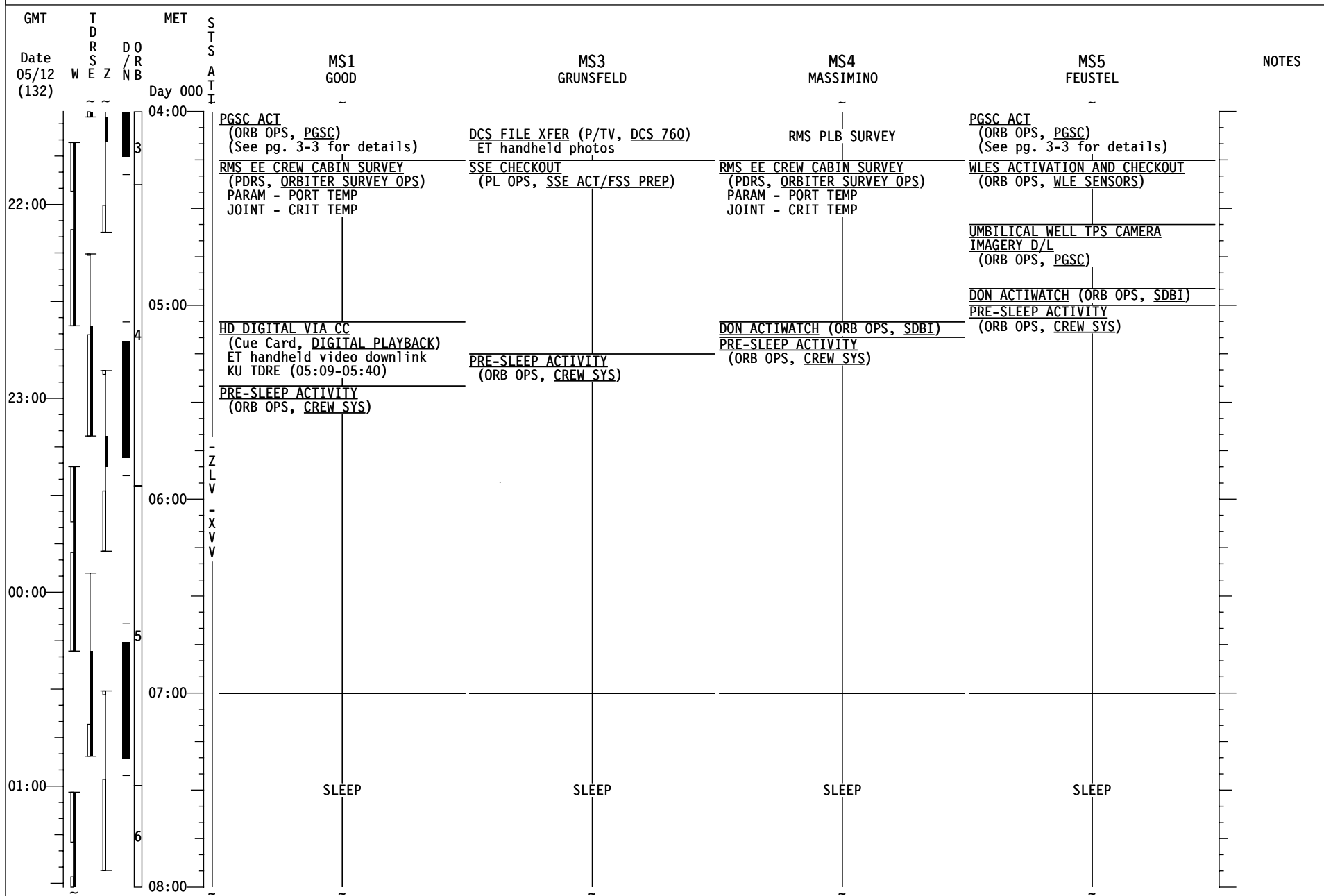
STS-125 (FD01)



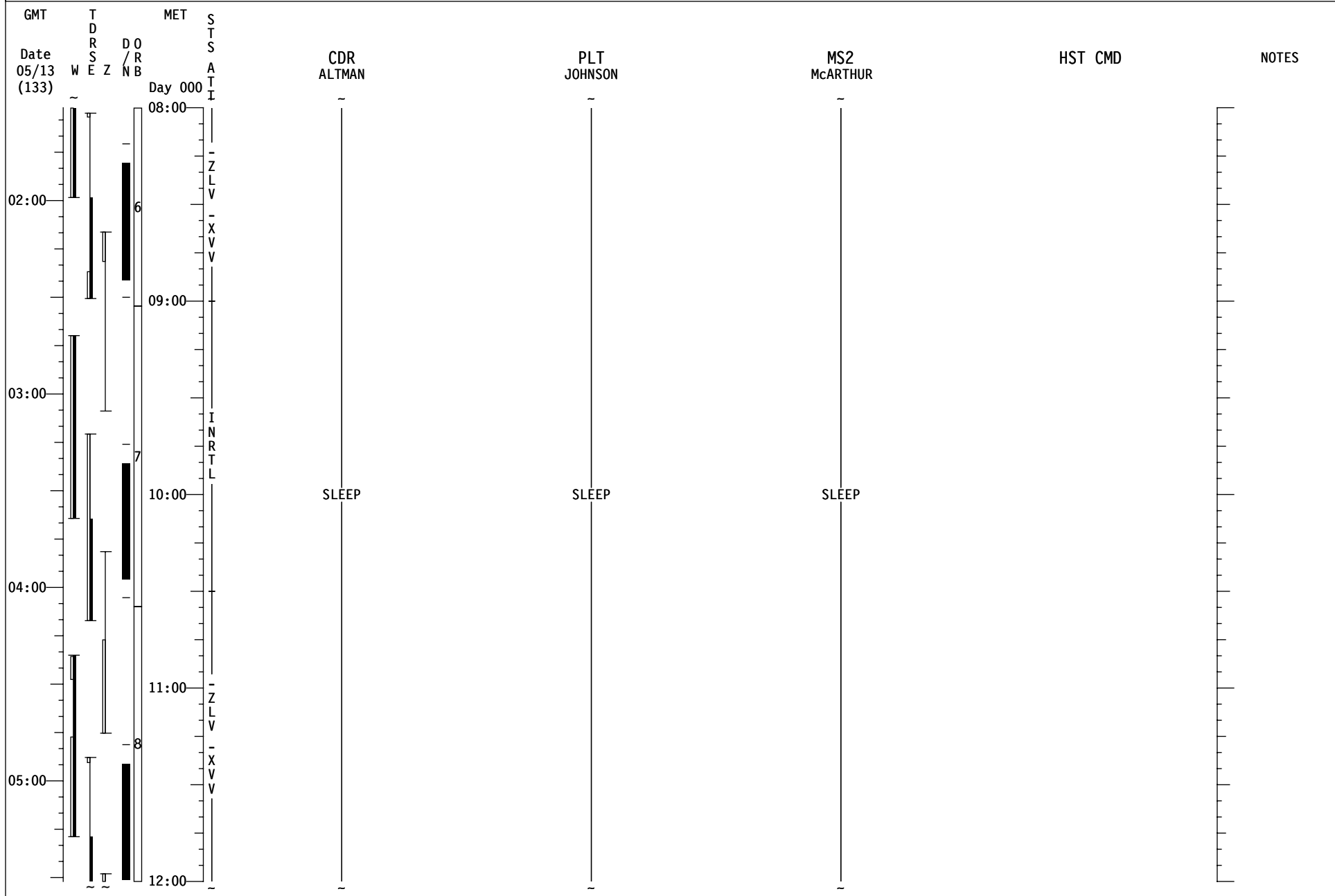
STS-125 (FD01)



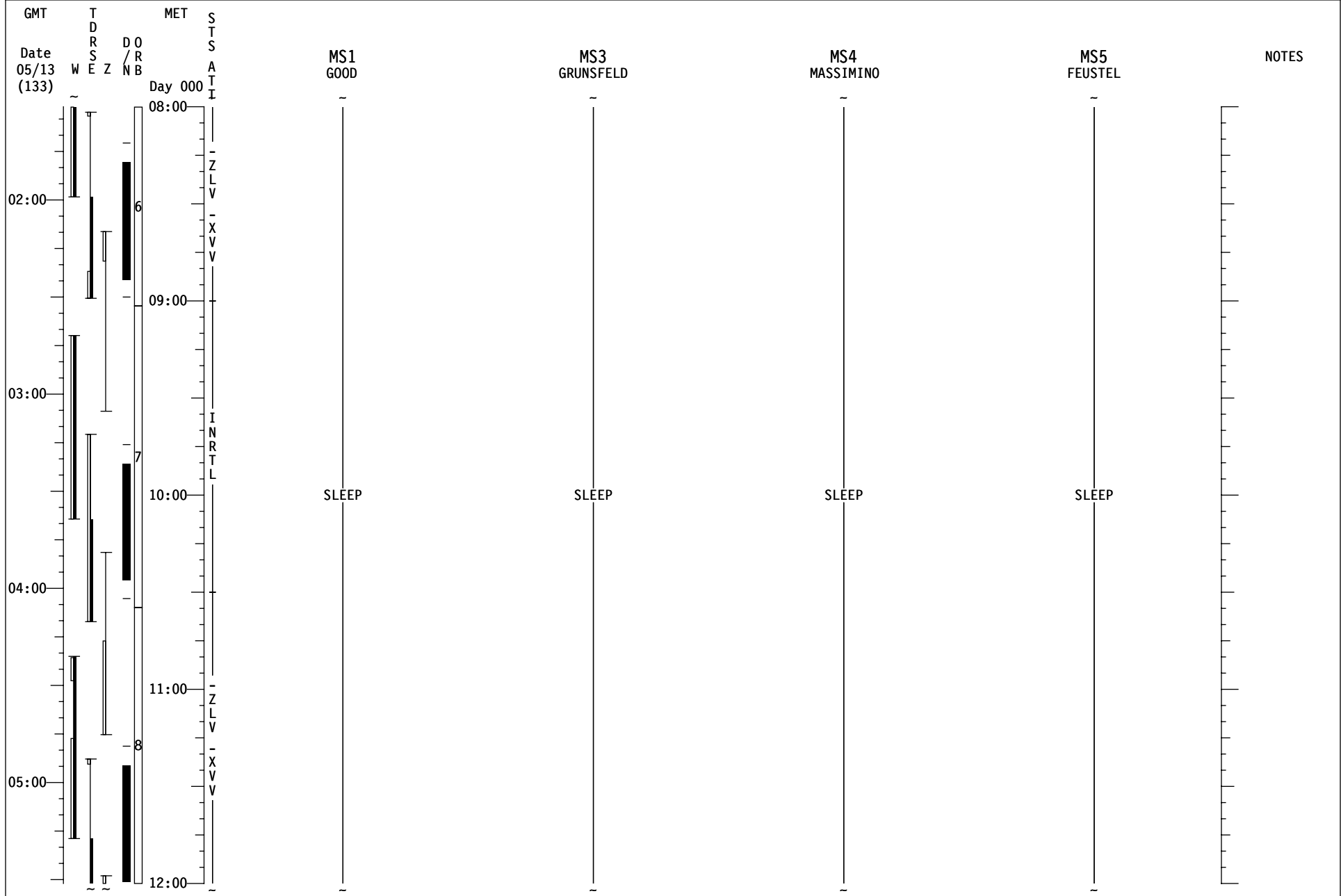
STS-125 (FD01)



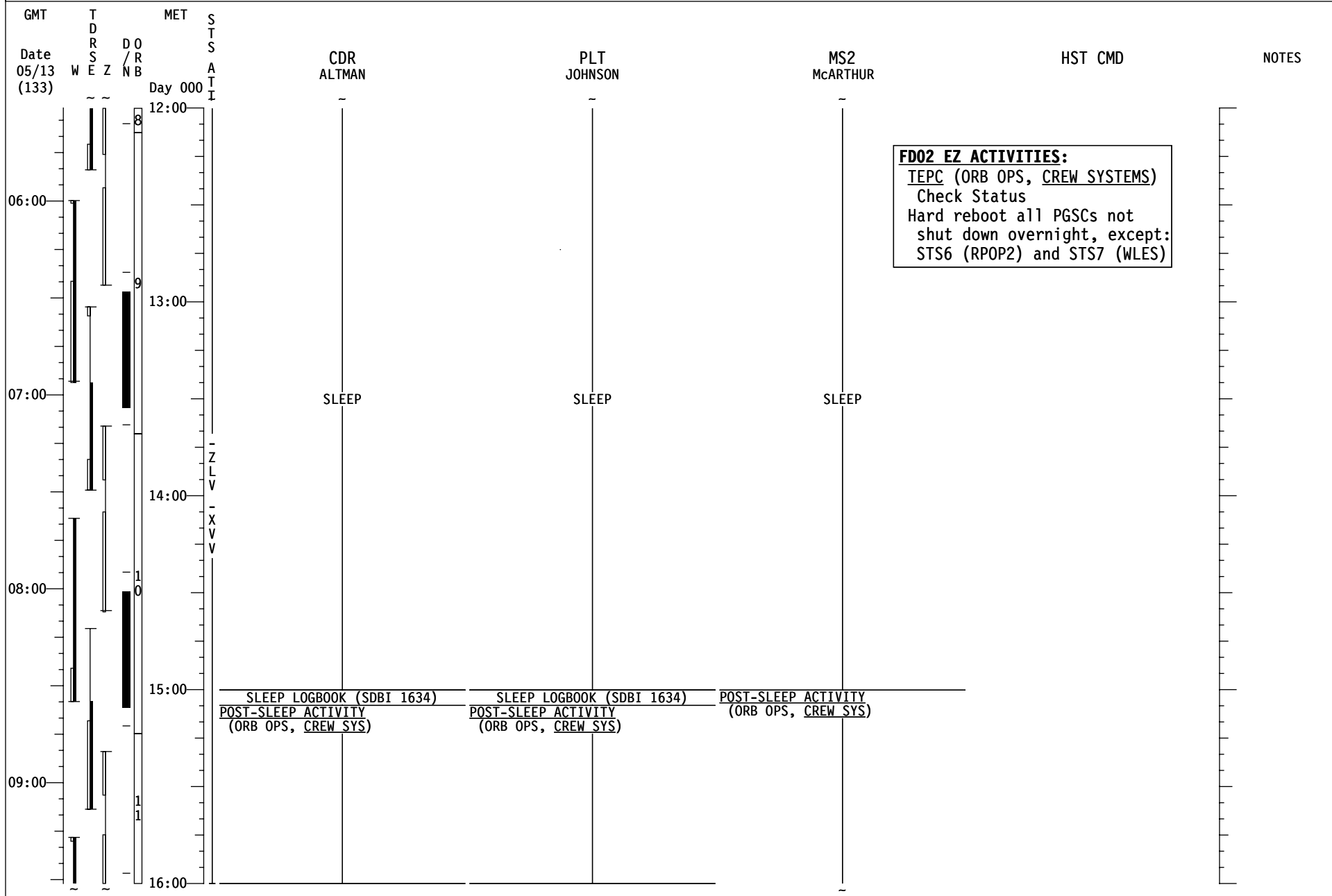
STS-125 (FD01)



STS-125 (FD01)

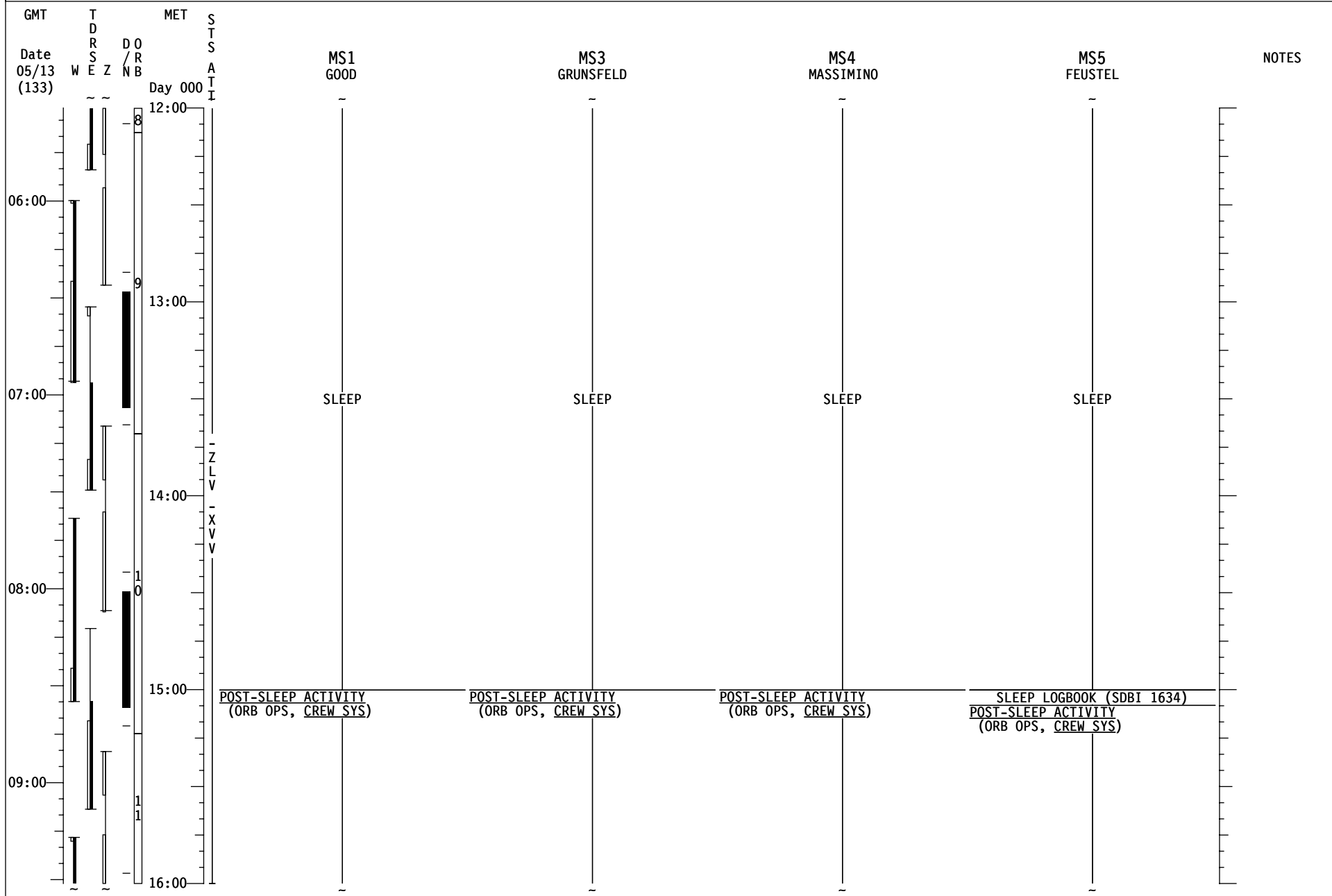


STS-125 (FD02)



FD02 EZ ACTIVITIES:
TEPC (ORB OPS, CREW SYSTEMS)
 Check Status
 Hard reboot all PGSCs not
 shut down overnight, except:
 STS6 (RPOP2) and STS7 (WLES)

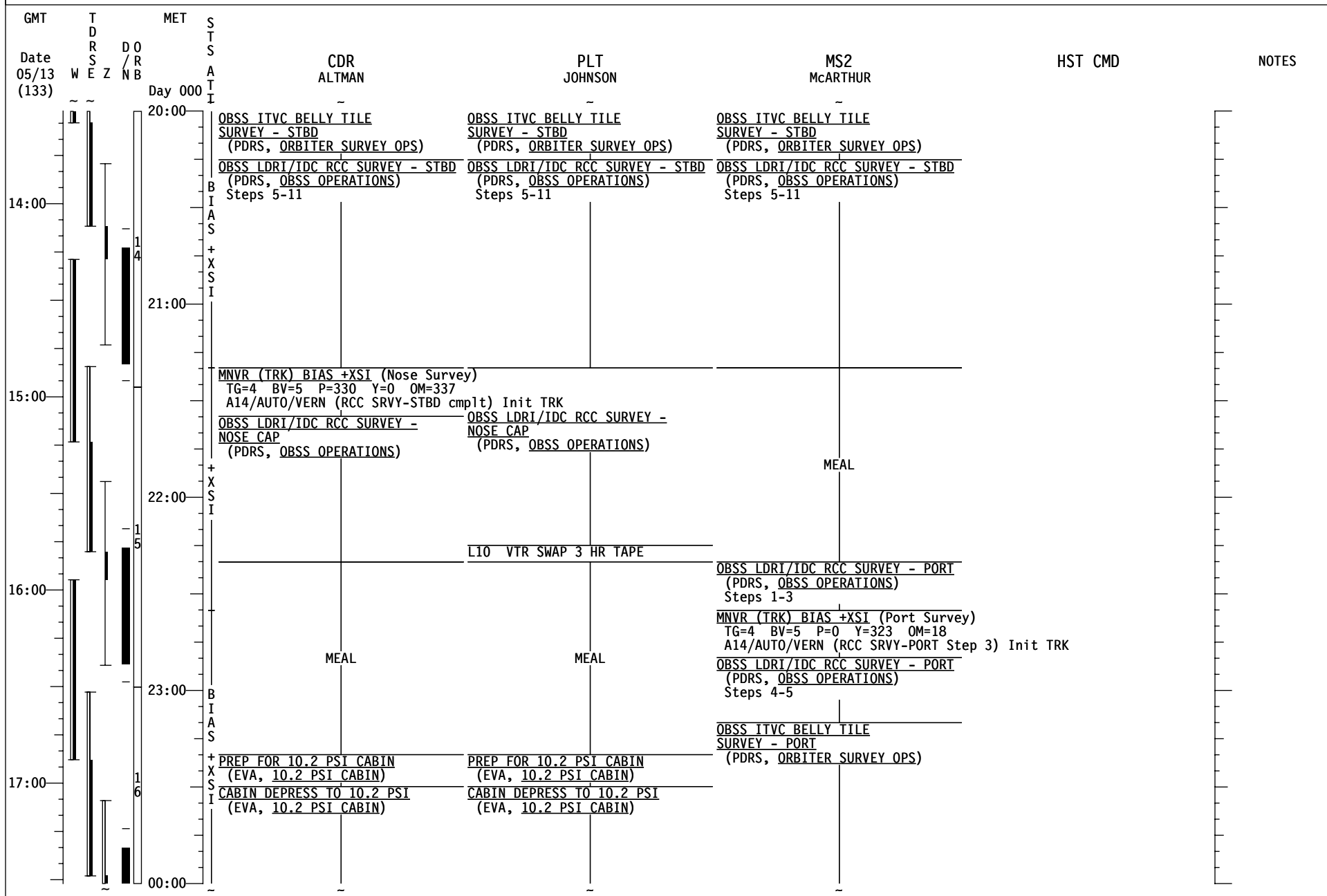
STS-125 (FD02)



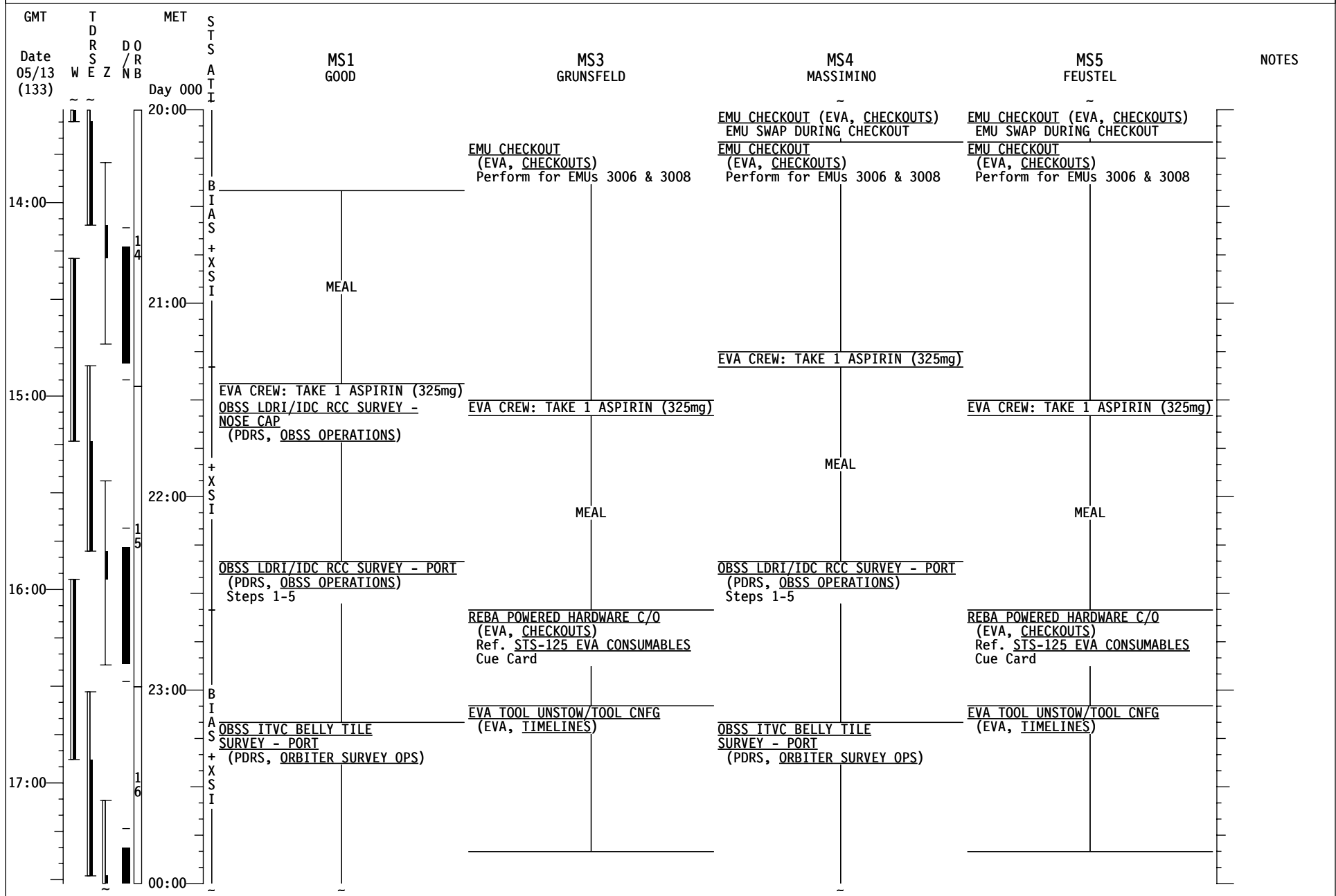
STS-125 (FD02)

GMT	T D R S E Z	MET	S T S A T	MS1 GOOD	MS3 GRUNSFELD	MS4 MASSIMINO	MS5 FEUSTEL	NOTES
Date 05/13 (133)	W E Z	Day 000	N C 1 2					
16:00				POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
17:00				PDIP 1 KU BAND RATE - OFF POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		OBSS UNBERTH (PDRS, OBSS OPERATIONS)		
18:00				PDIP 1 KU BAND RATE - LOW POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)				
19:00			Z L V	AIRLOCK PREP (EVA, AIRLOCK CONFIG) Ref. STS-125 EVA CONSUMABLES Cue Card			AIRLOCK PREP (EVA, AIRLOCK CONFIG) Ref. STS-125 EVA CONSUMABLES Cue Card	
20:00			X V V		FSS PREP FOR BERTHING (PL OPS, SSE ACT/FSS PREP)			
11:00				EMU CHECKOUT (EVA, CHECKOUTS) Perform for EMUs 3015 & 3017		EMU CHECKOUT (EVA, CHECKOUTS) Perform for EMUs 3015 & 3017	EMU CHECKOUT (EVA, CHECKOUTS) Perform for EMUs 3015 & 3017	
12:00								
13:00			B I A S		RNS ON-ORBIT CHECKOUT (PL OPS, SSE ACT/FSS PREP) BATTERY GATHER & CHARGER SETUP (EVA, A/L CONFIG)			
14:00			+ X S I			EMU CHECKOUT (EVA, CHECKOUTS) EMU SWAP DURING CHECKOUT	EMU CHECKOUT (EVA, CHECKOUTS) EMU SWAP DURING CHECKOUT	
15:00								
16:00								

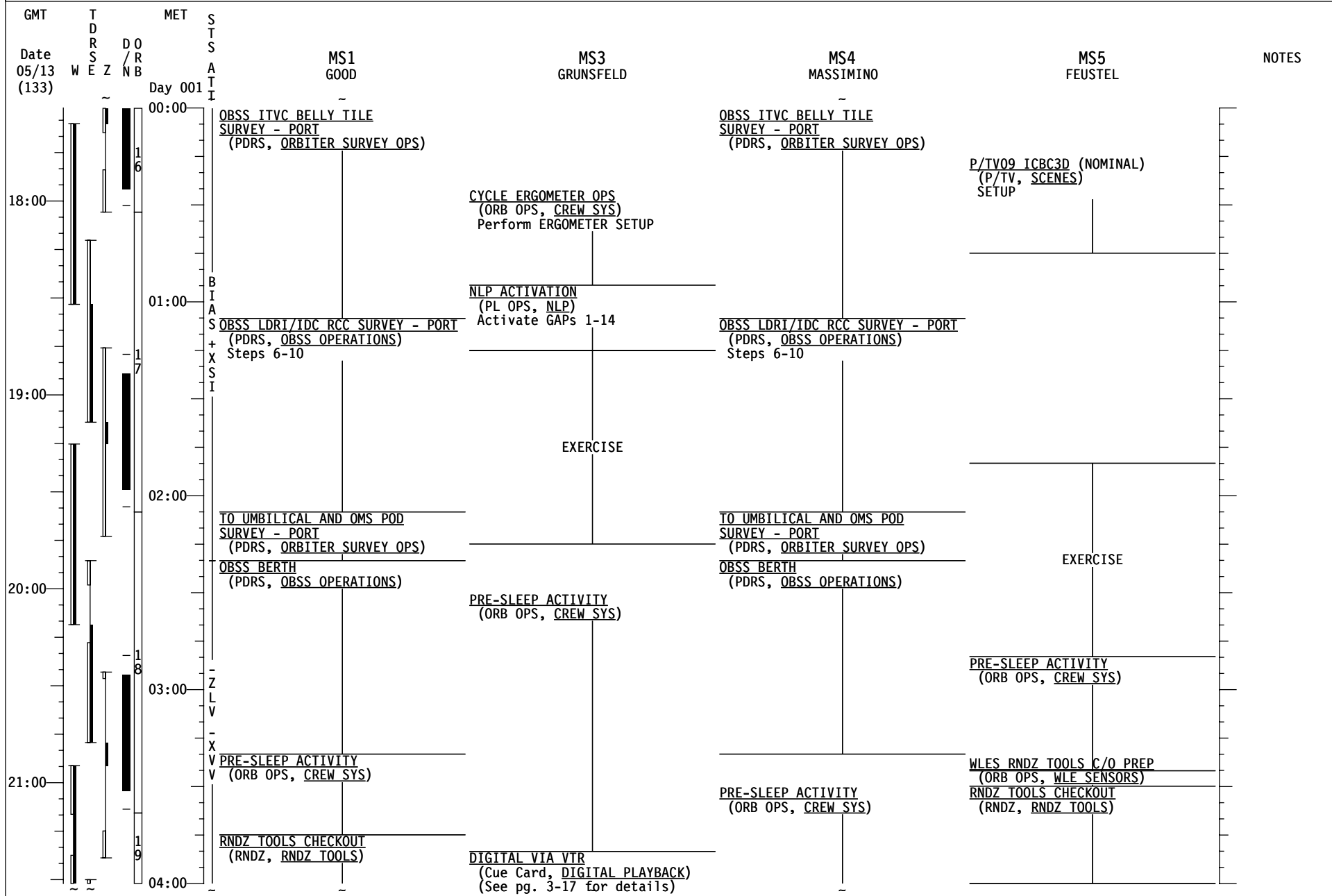
STS-125 (FD02)



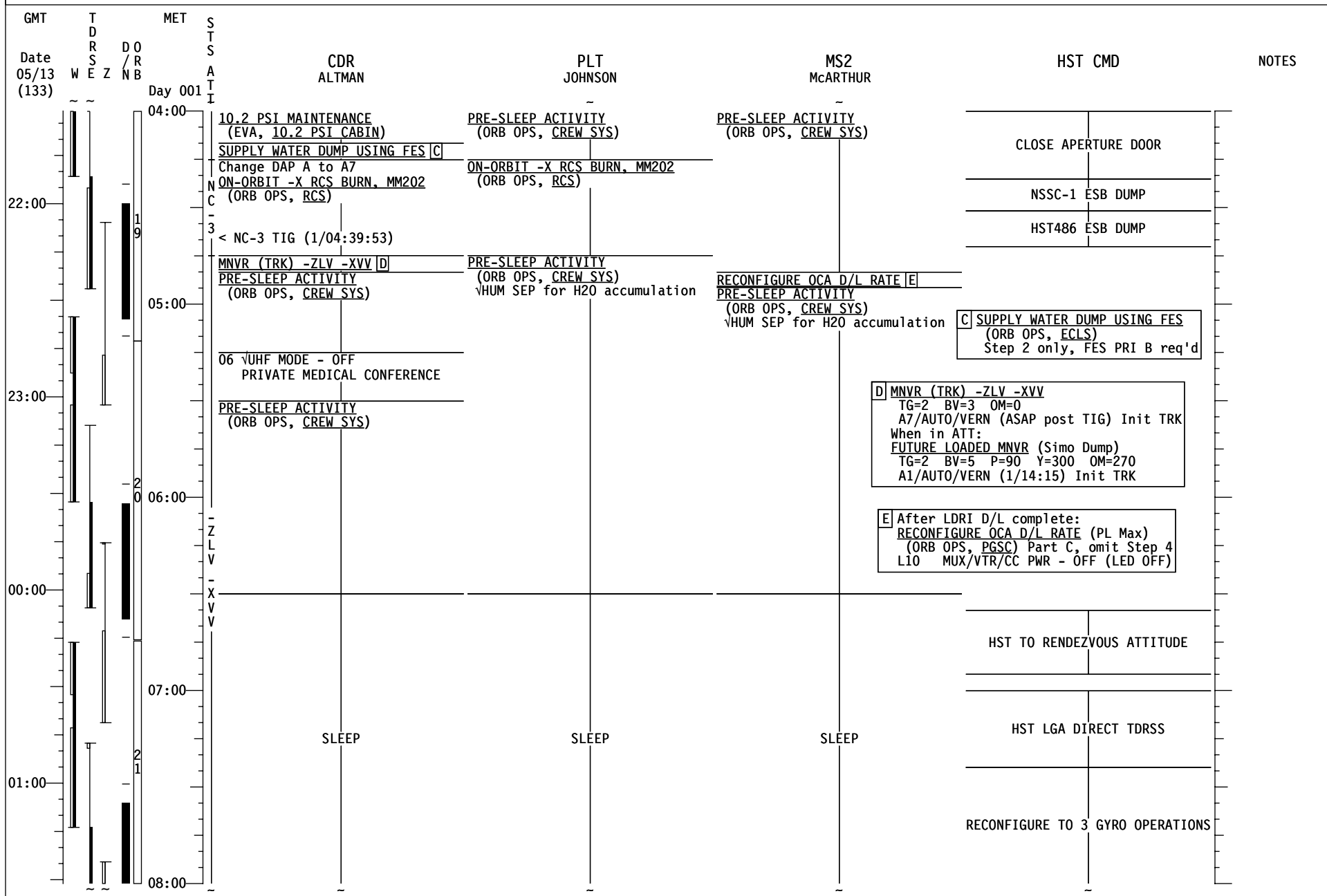
STS-125 (FD02)



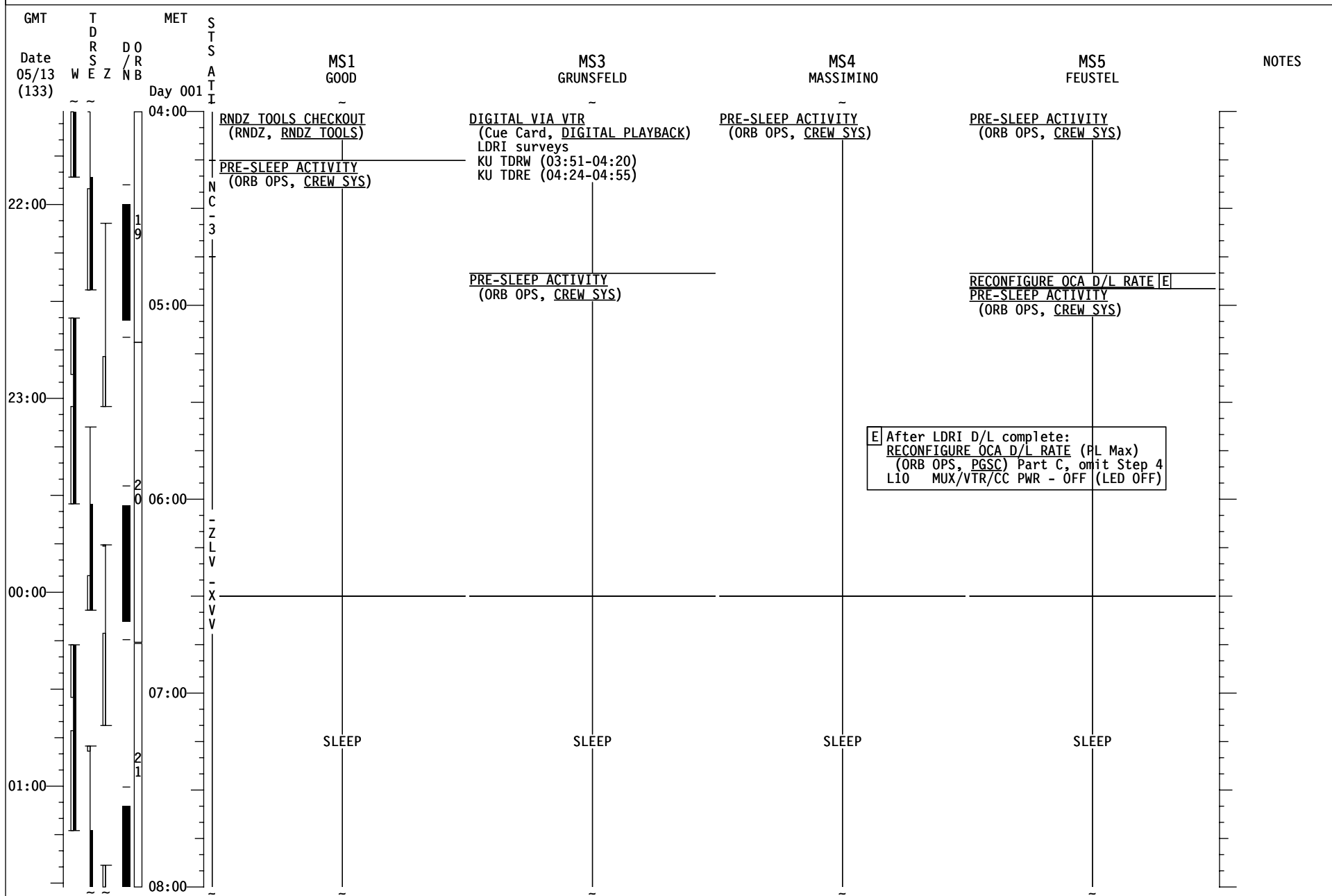
STS-125 (FD02)



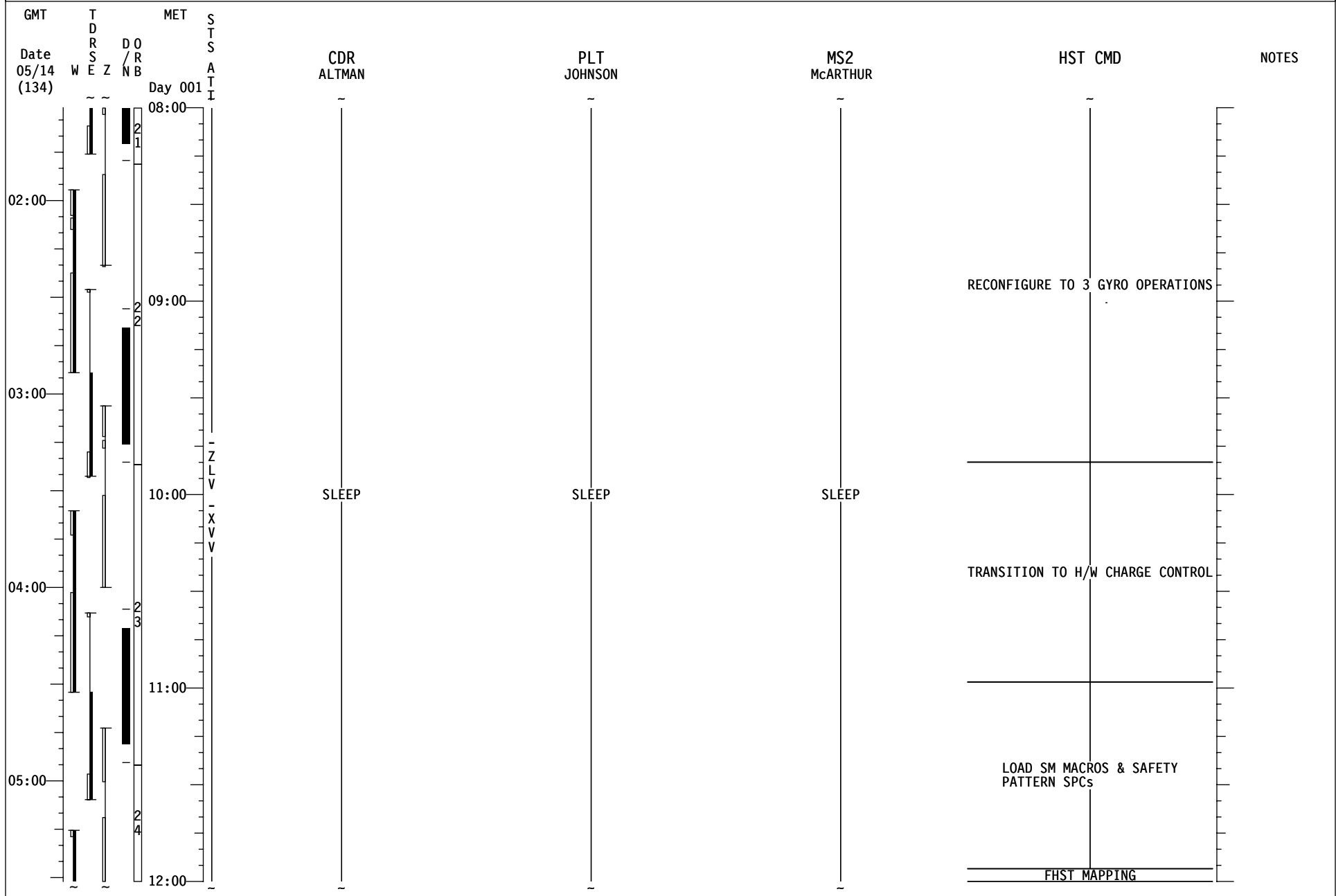
STS-125 (FD02)



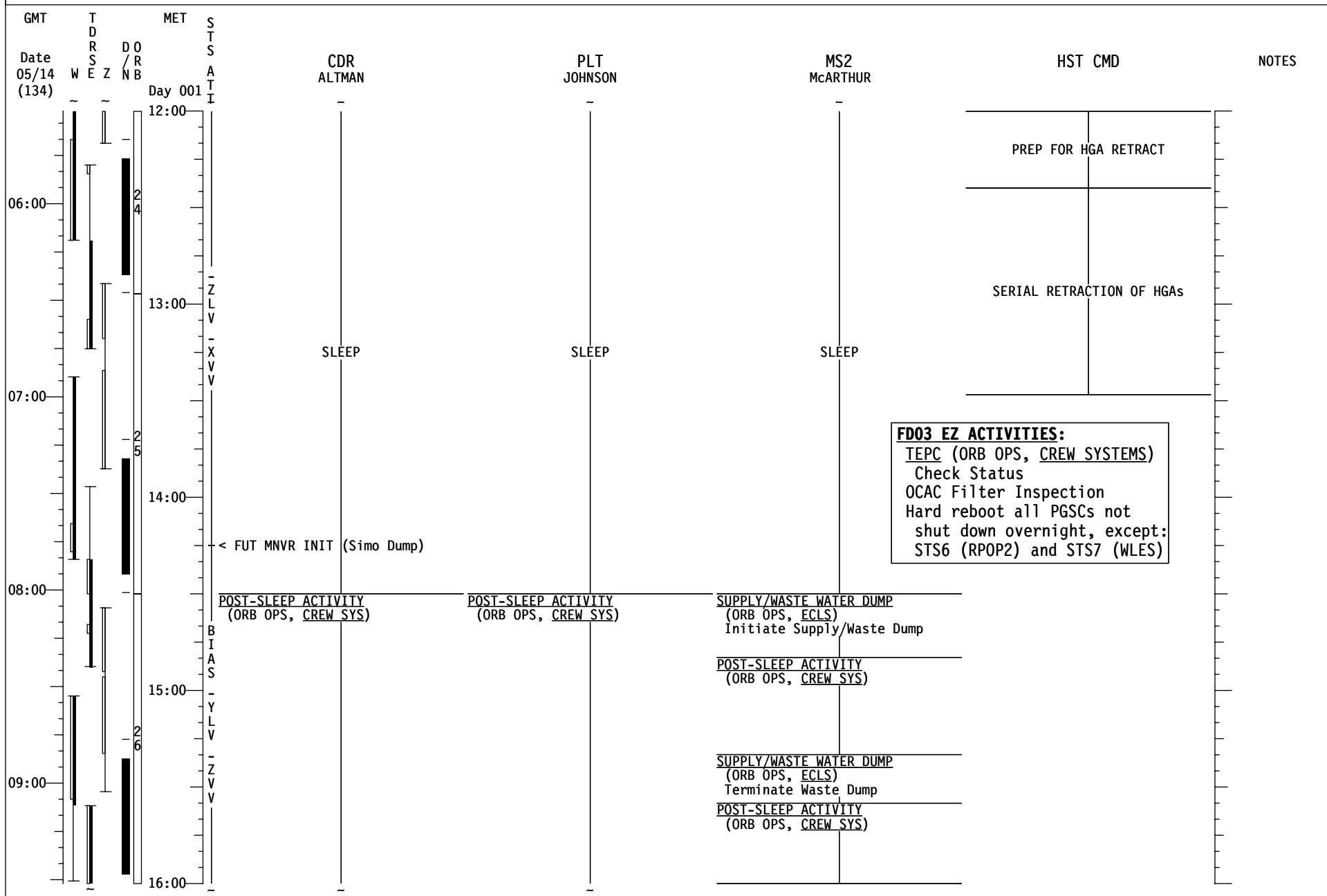
STS-125 (FD02)



STS-125 (FD02)

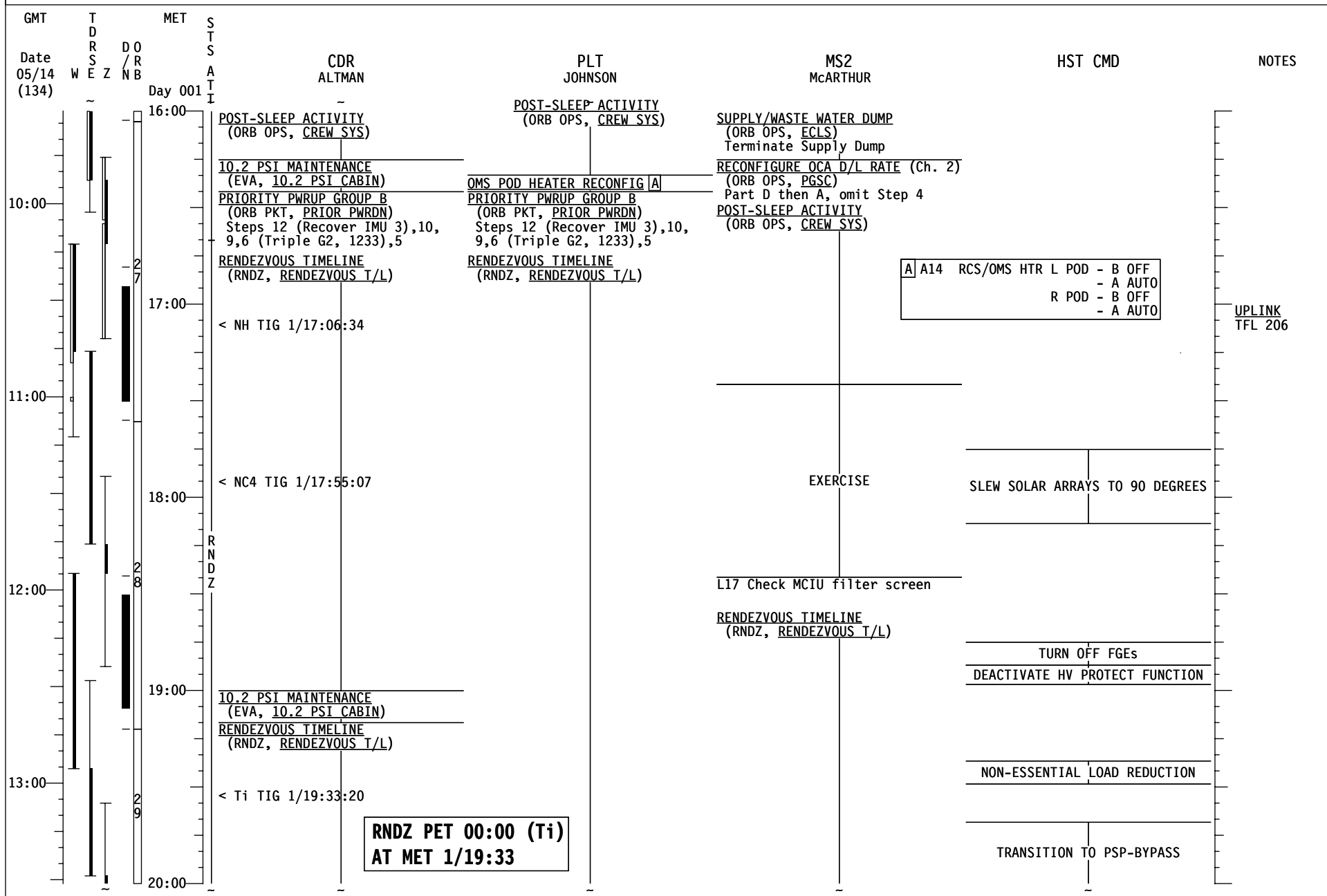


STS-125 (FD03)

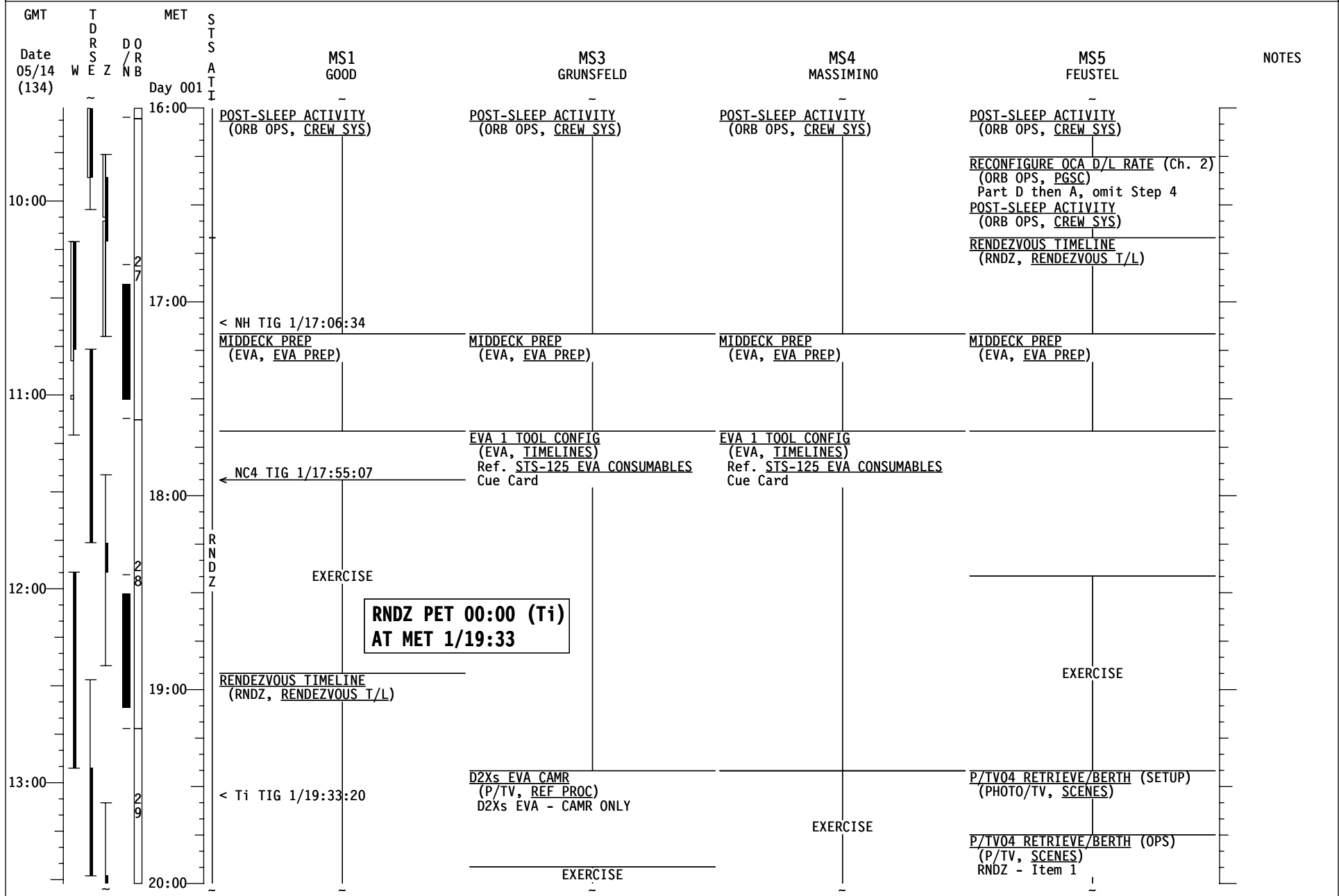


FD03 EZ ACTIVITIES:
 TEPC (ORB OPS, CREW SYSTEMS)
 Check Status
 OCAC Filter Inspection
 Hard reboot all PGSCs not shut down overnight, except: STS6 (RPOP2) and STS7 (WLES)

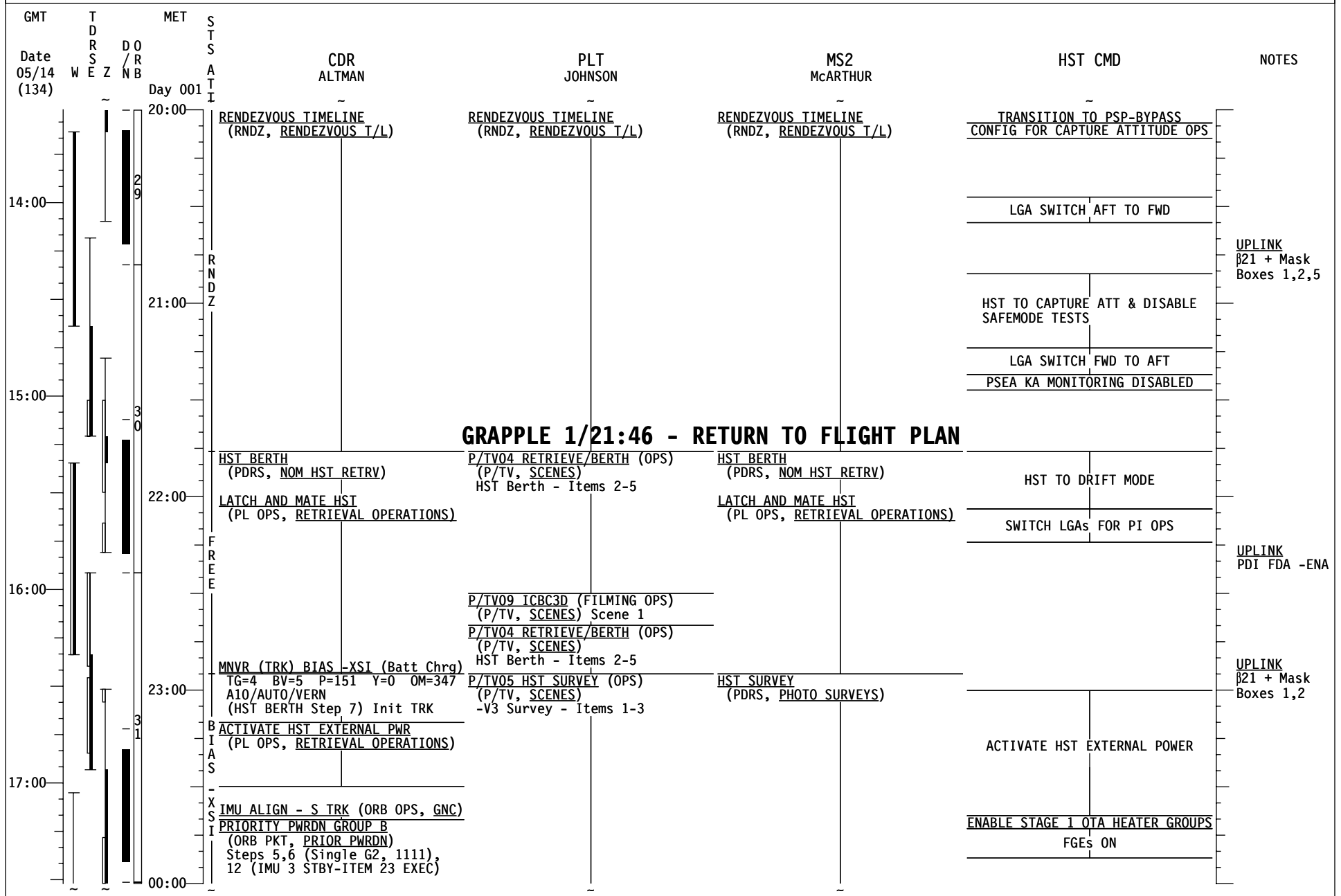
STS-125 (FD03)



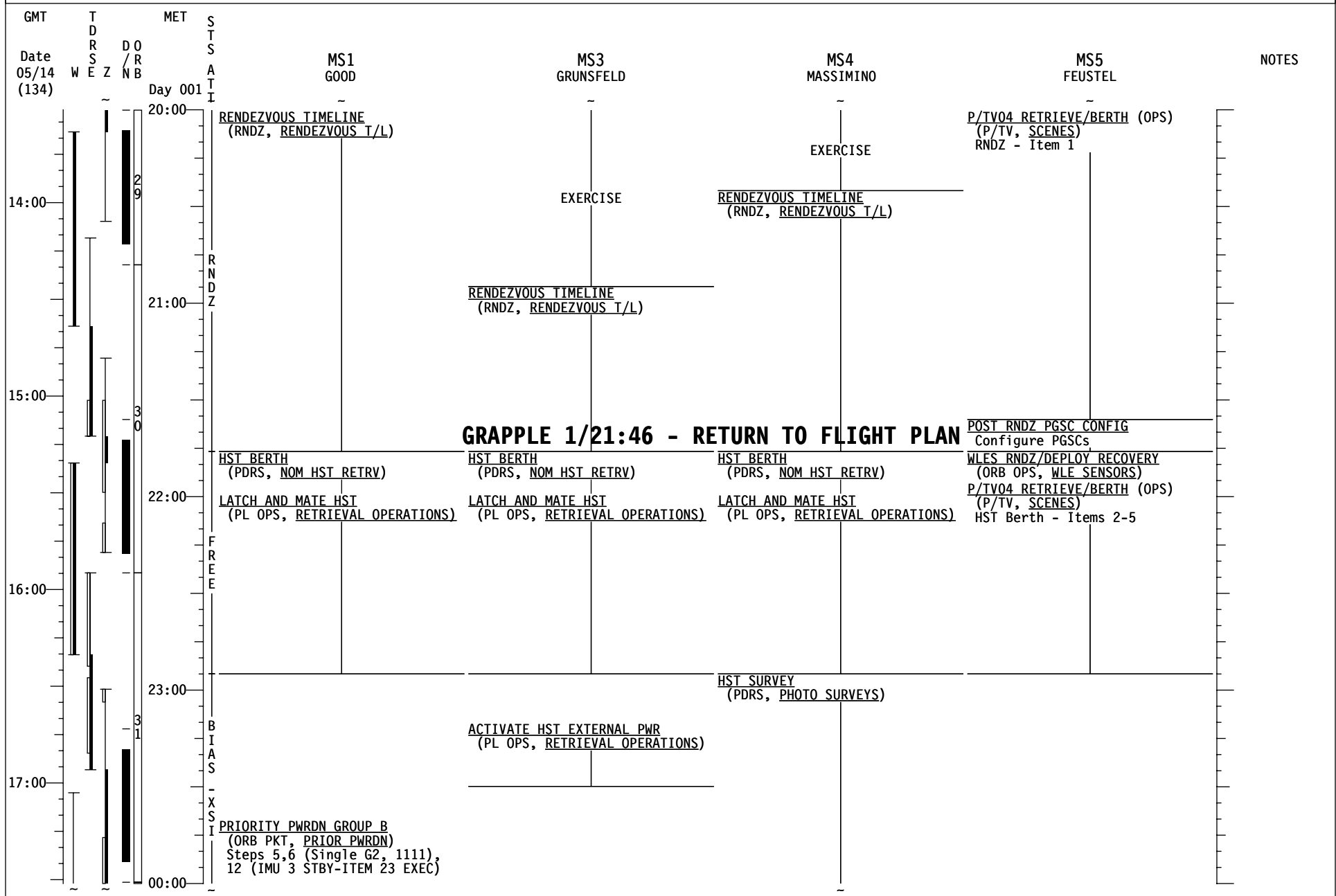
STS-125 (FD03)



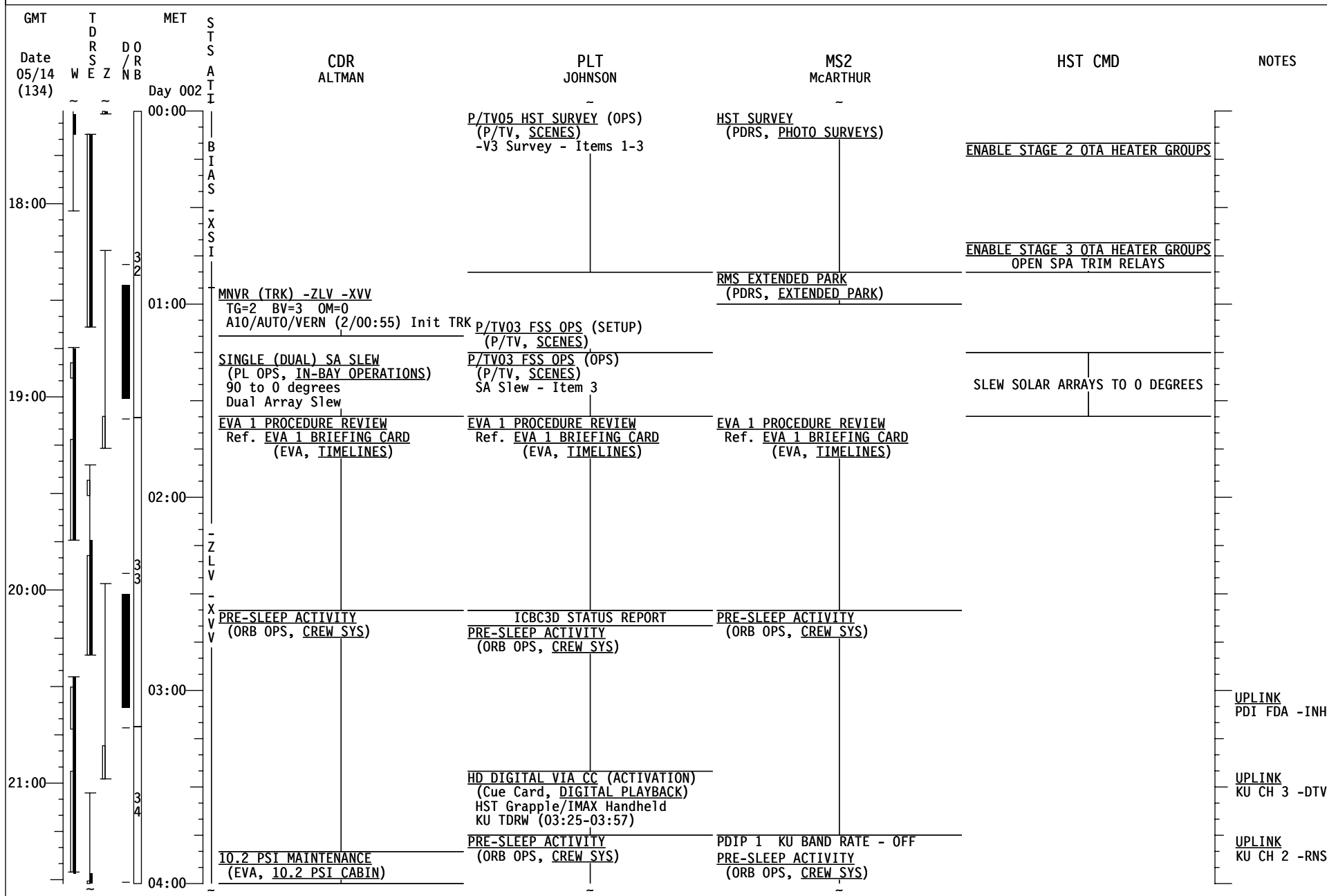
STS-125 (FD03)



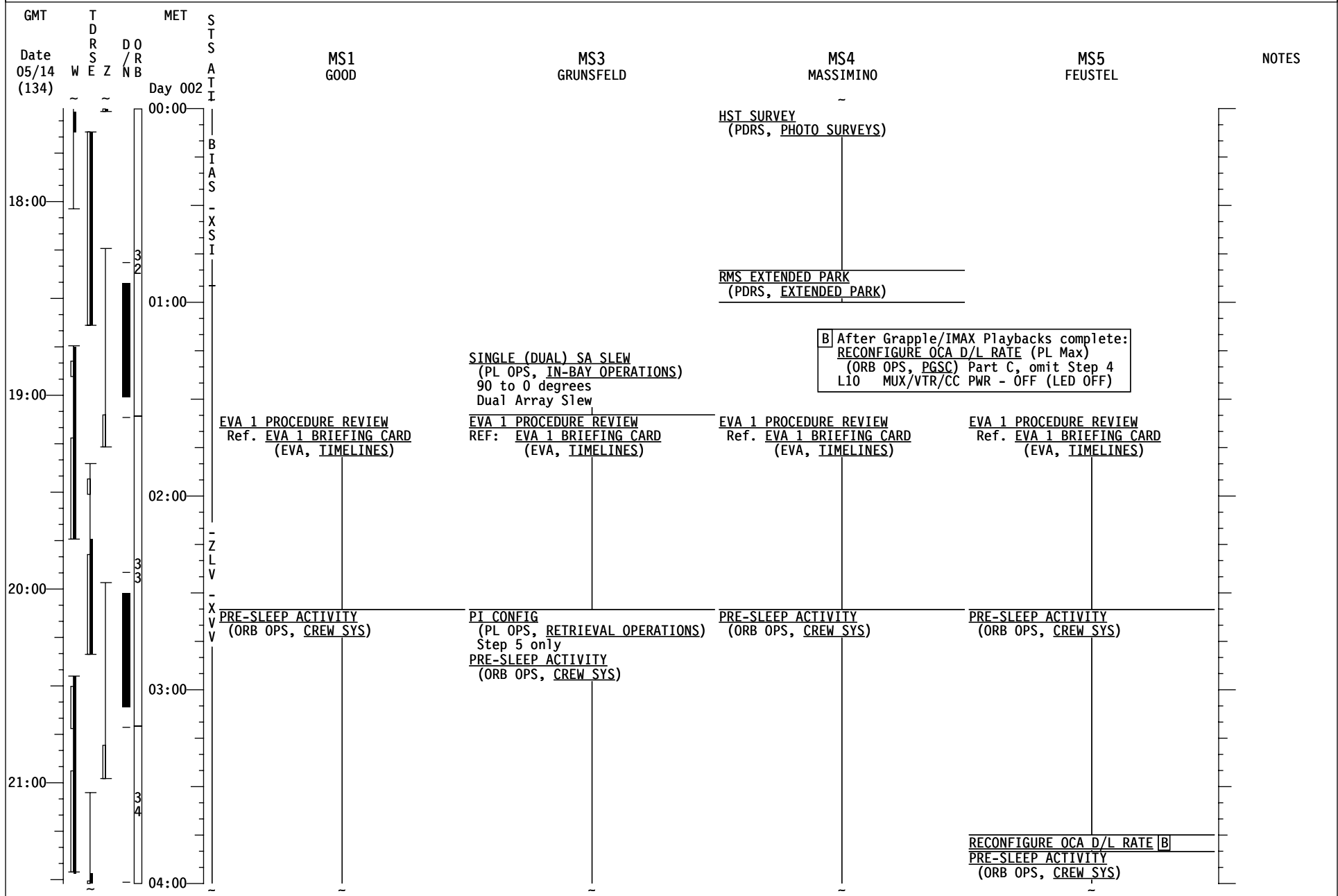
STS-125 (FD03)



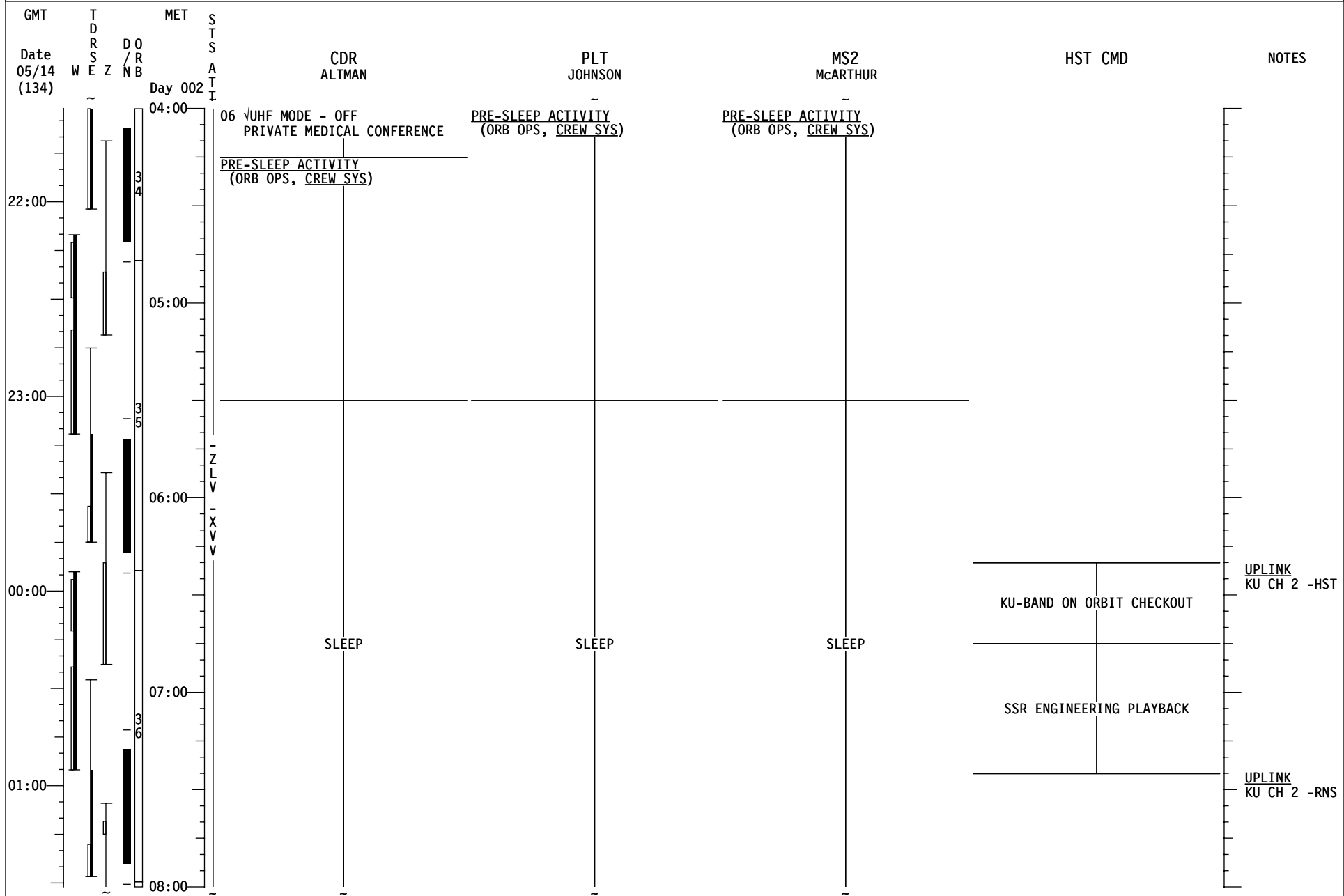
STS-125 (FD03)



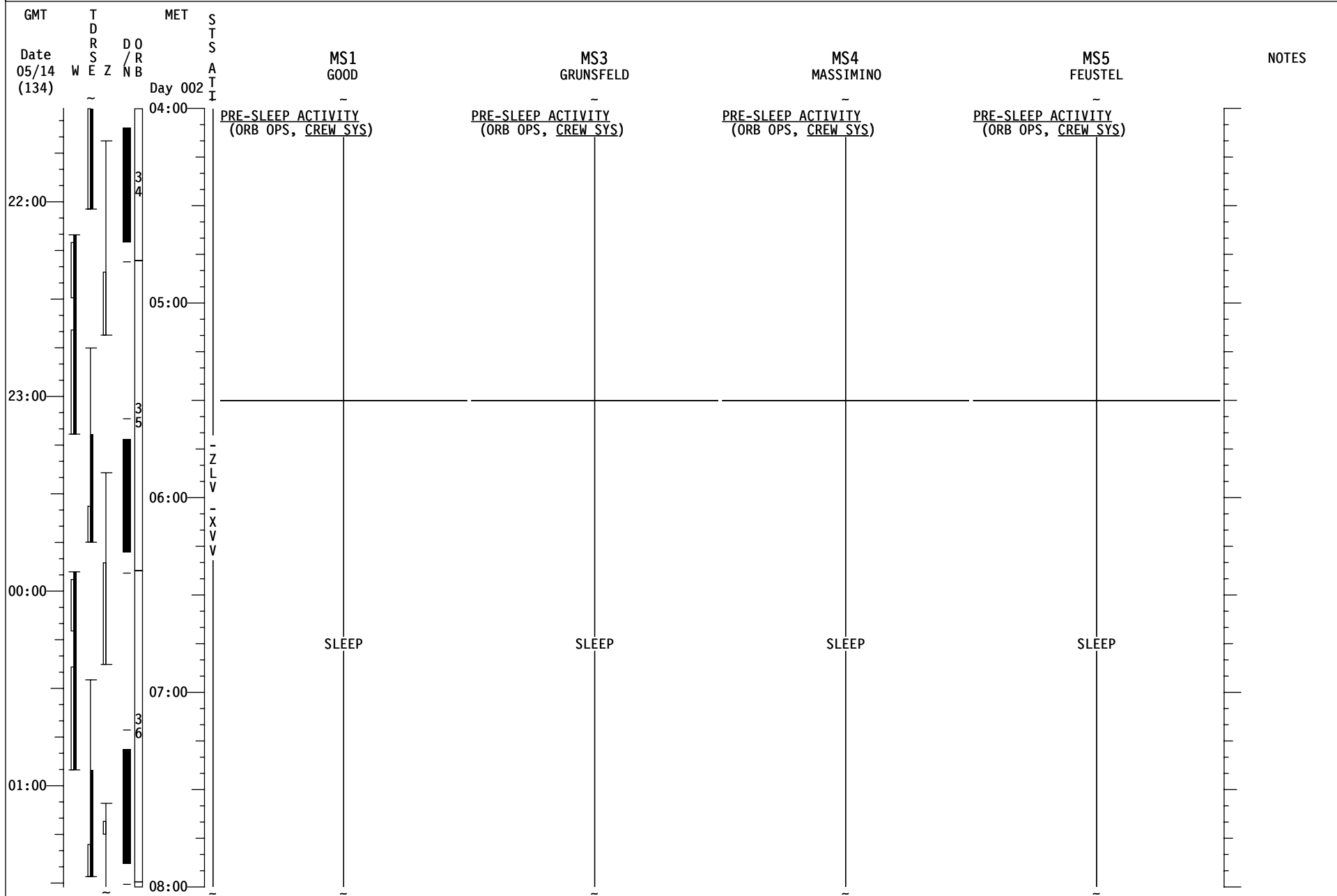
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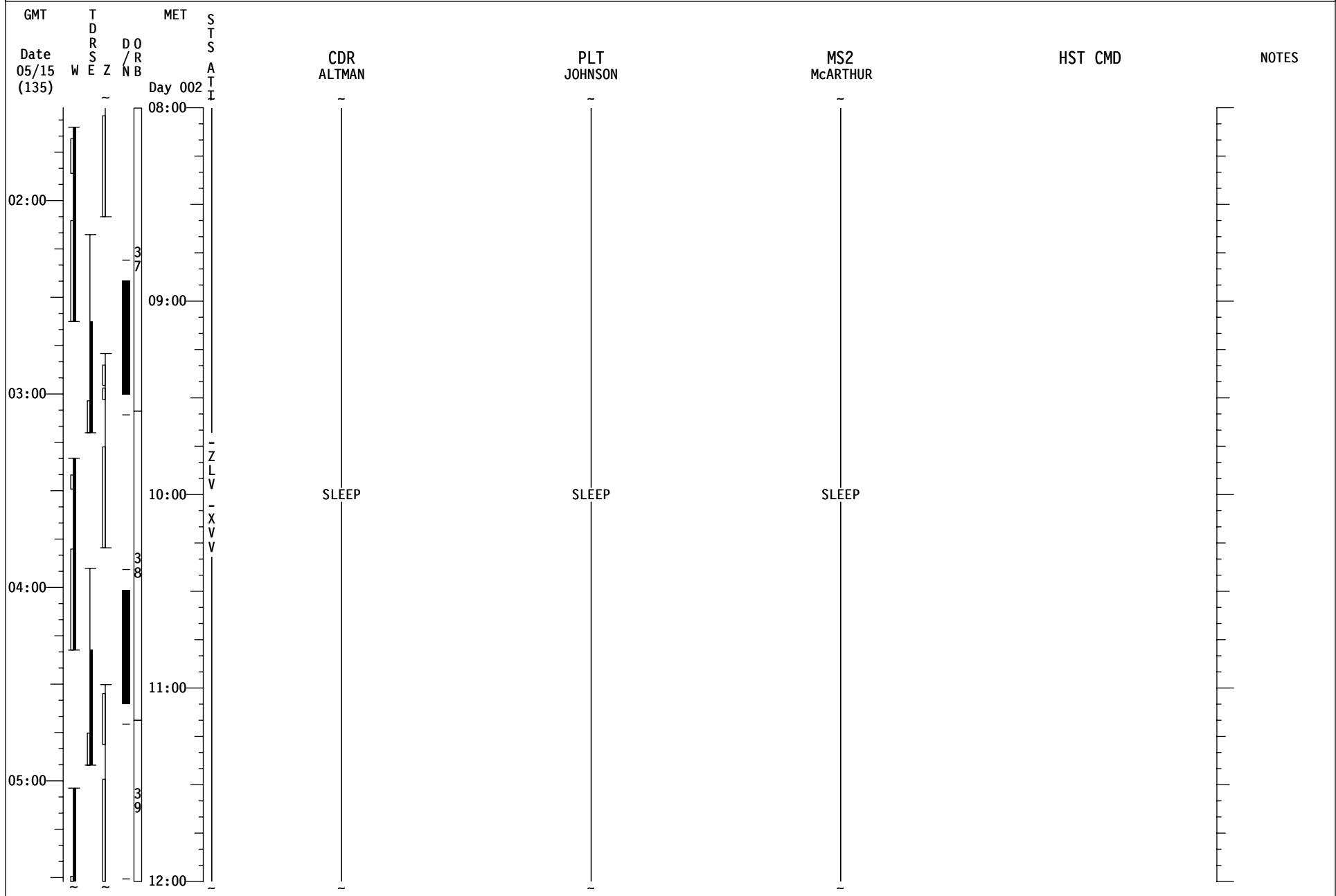
STS-125 (FD03)



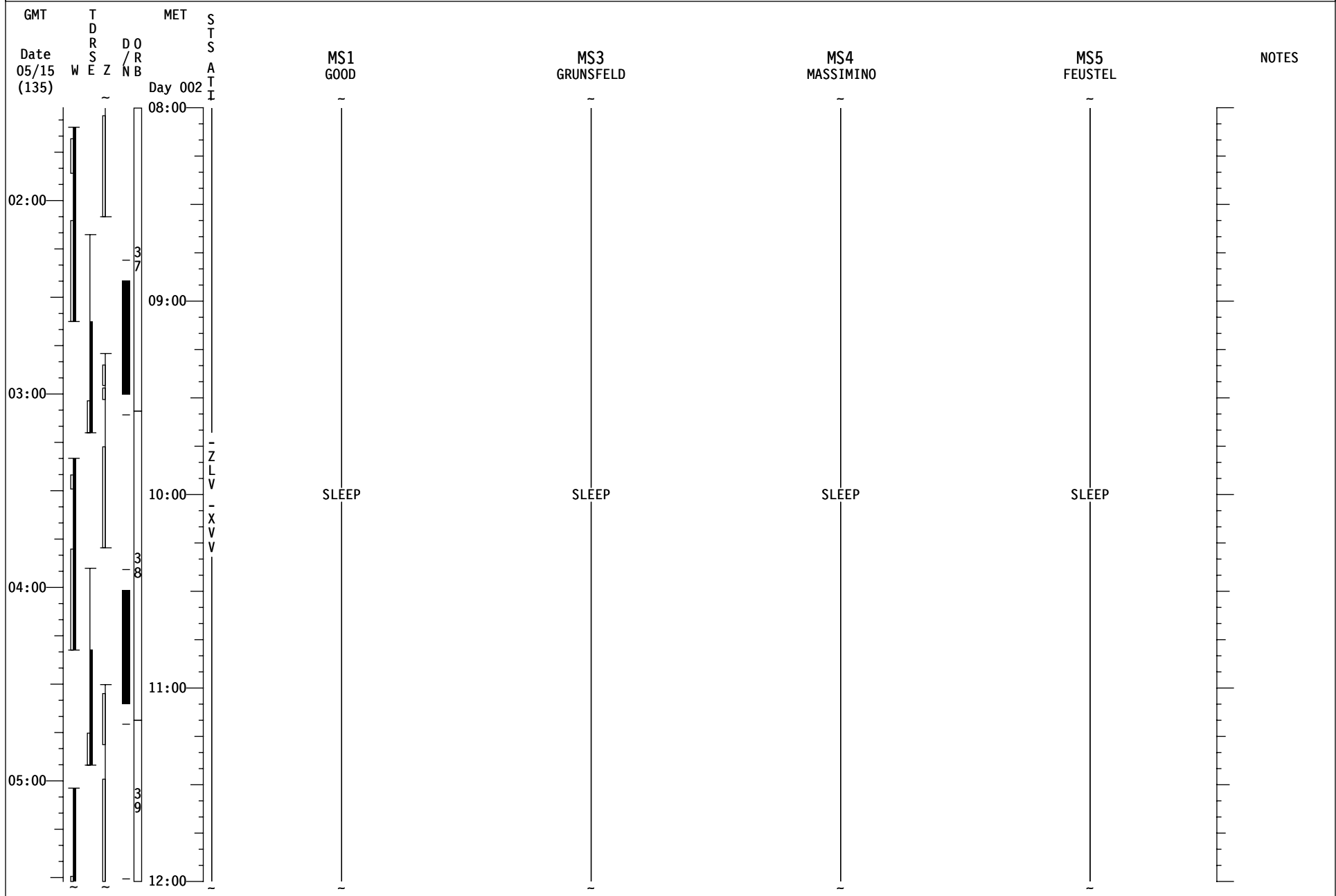
STS-125 (FD03)



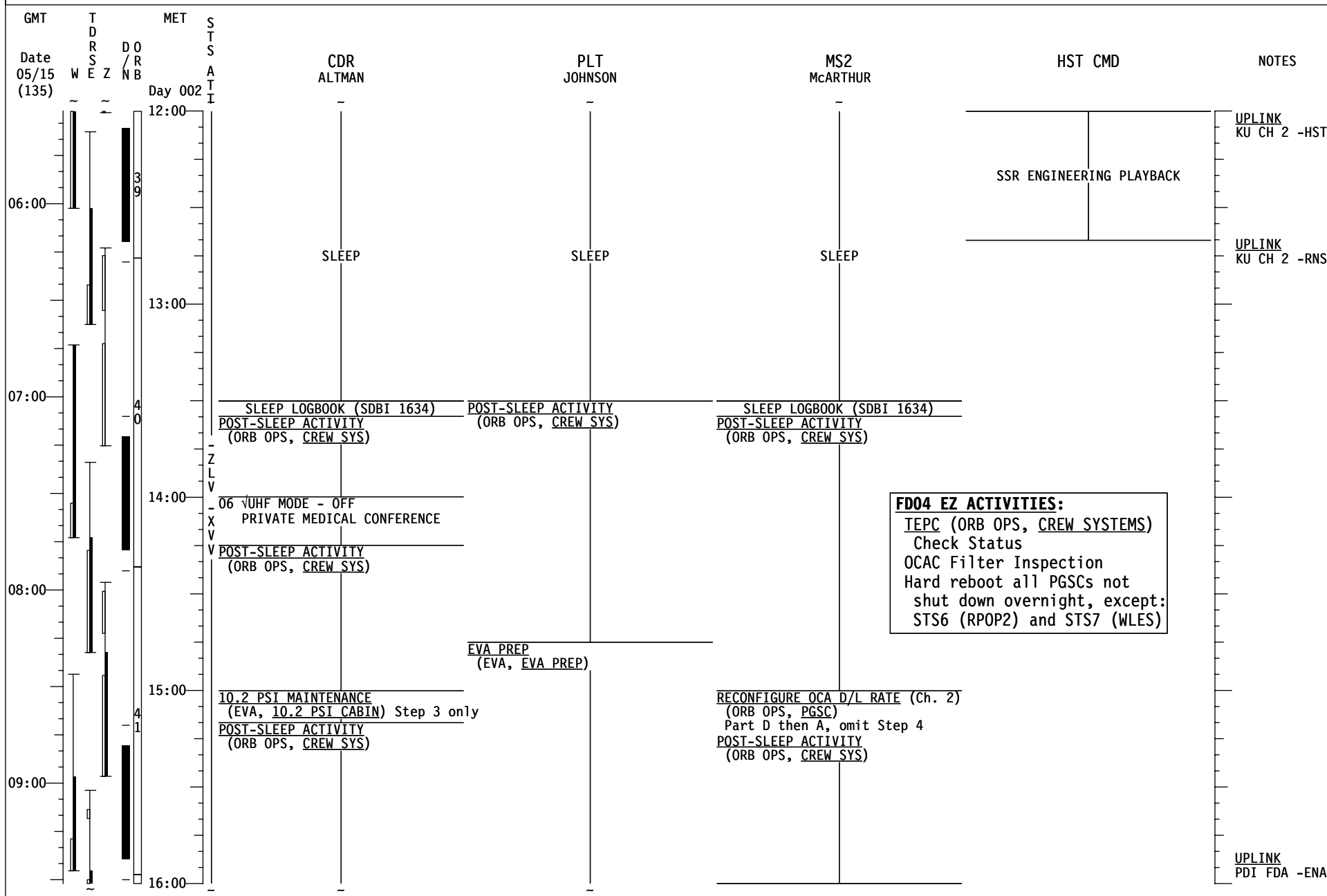
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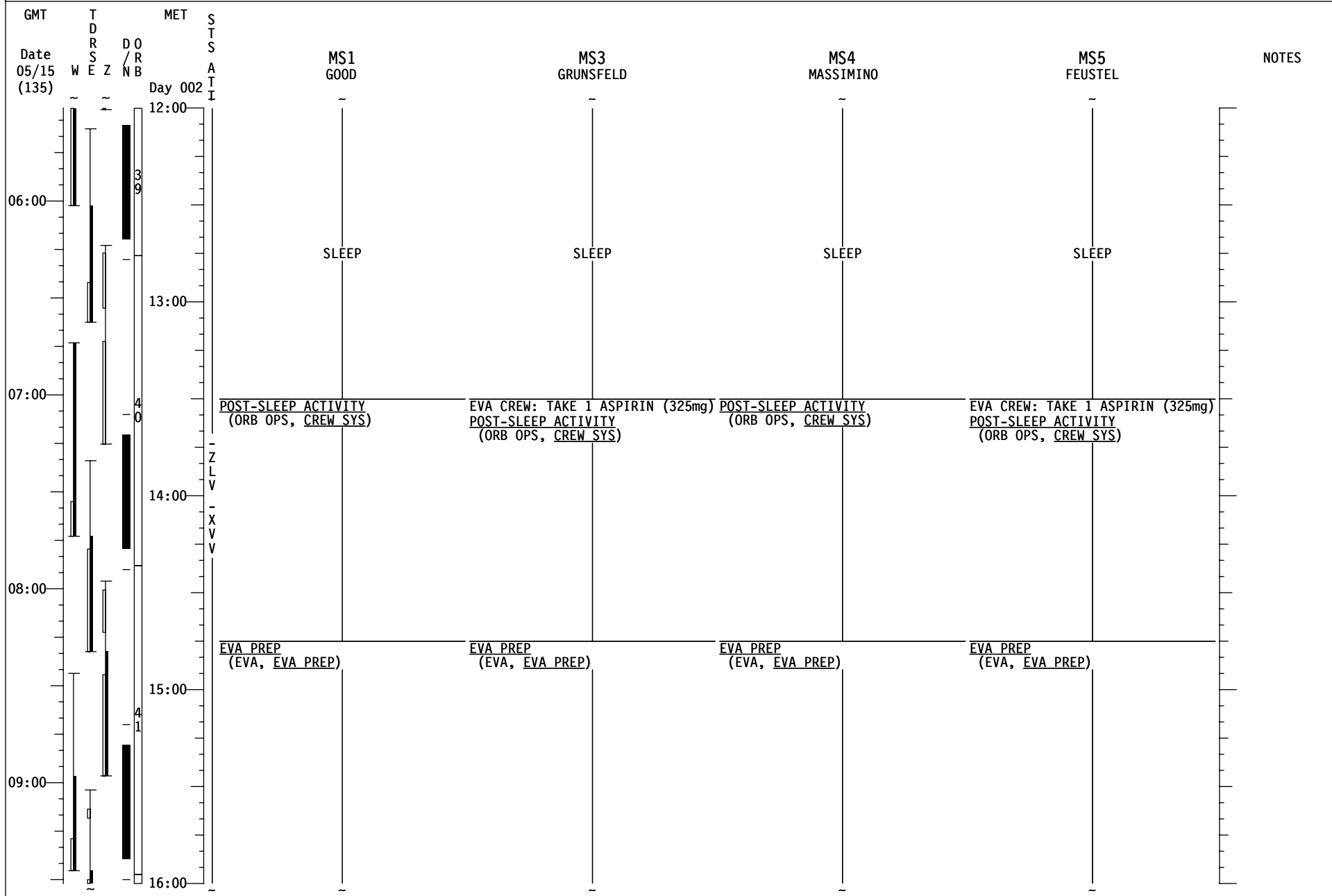
STS-125 (FD03)



STS-125 (FD04)



STS-125 (FD04)



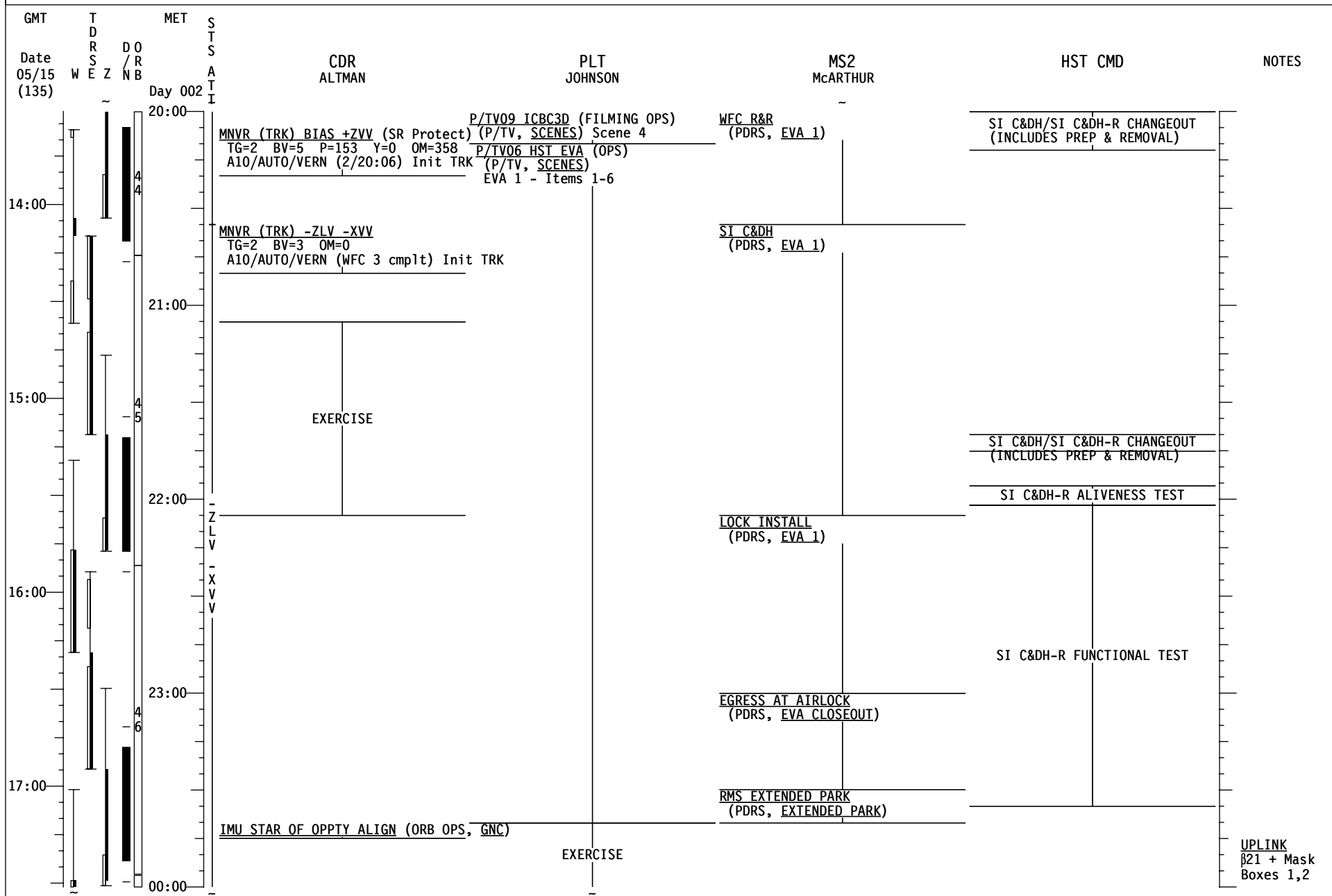
STS-125 (FD04)

GMT	TDRS W E Z	MET DO RNB	S T S A T I	CDR ALTMAN	PLT JOHNSON	MS2 McARTHUR	HST CMD	NOTES
Date 05/15 (135)		Day 002						
16:00				POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	EVA PREP (EVA, EVA PREP)			
					P/TV06 HST EVA (P/TV, SCENES) SETUP			
10:00				SUPPLY WATER DUMP USING FES (ORB OPS, ECLS) Step 1 only, using FES PRI B		EXERCISE		
				G2 SET EXPANSION (ORB OPS, DPS) L Configure Dual G2, (1212)	P/TV03 FSS OPS (SETUP & OPS) (P/TV, SCENES) Pivot - Item 2			
17:00				PIVOT HST DN (90 to 85 DEG) (PL OPS, IN-BAY OPERATIONS)	P/TV03 FSS OPS (OPS) (P/TV, SCENES) Depress - Item 4	PIVOT HST DN (90 to 85 DEG) (PL OPS, IN-BAY OPERATIONS)		UPLINK β21 + Mask Boxes 1,2,3,4
11:00					P/TV06 HST EVA (OPS) (P/TV, SCENES) EVA 1 - Items 1-6	L17 Check MCIU filter screen		
						MFR SETUP (PDRS, EVA SETUP)		
				P/TV03 FSS OPS (SETUP & OPS) (P/TV, SCENES) Pivot - Item 2				
18:00				PIVOT HST UP (85 to 90 DEG) (PL OPS, IN-BAY OPERATIONS)			WFC3/WFPC-II CHANGEOUT (INCLUDES PREP & C/O)	
				MNVR (INRTL) (SS Protect) R=292 P=344 Y=349 A10/AUTO/VERN (2/18:05) Init MNVR				
12:00				MNVR (TRK) BIAS +ZVV (SR Protect) TG=2 BV=5 P=153 Y=0 OM=358 A10/AUTO/VERN (2/18:31) Init TRK		WFC R&R (PDRS, EVA 1)		
19:00					P/TV09 ICBC3D (FILMING OPS) (P/TV, SCENES) Scene 2			
					P/TV09 ICBC3D (FILMING OPS) (P/TV, SCENES) Scene 3			
13:00				MNVR (INRTL) (SS Protect) R=292 P=344 Y=349 A10/AUTO/VERN(2/19:26) Init MNVR	P/TV06 HST EVA (OPS) (P/TV, SCENES) EVA 1 - Items 1-6			
20:00							WFC3 ALIVENESS TEST	

STS-125 (FD04)

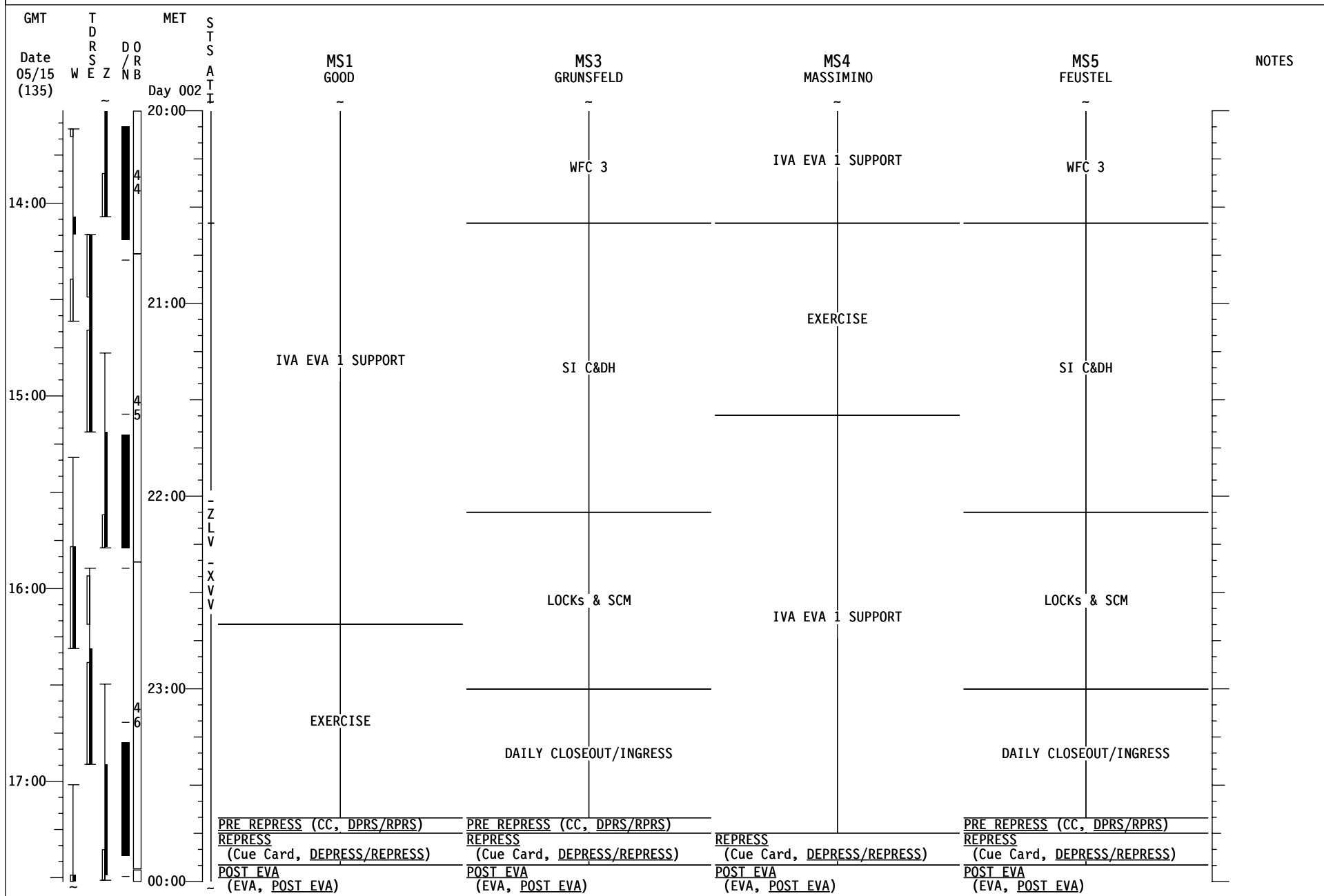
GMT	T D R S W E Z	MET D O R N B	S T S A T I	MS1 GOOD	MS3 GRUNSFELD	MS4 MASSIMINO	MS5 FEUSTEL	NOTES
Date 05/15 (135)		Day 002						
16:00				EVA PREP (EVA, EVA PREP)	EVA PREP (EVA, EVA PREP)	EVA PREP (EVA, EVA PREP)	EVA PREP (EVA, EVA PREP)	
				EMU PURGE (EVA, EVA PREP)	EMU PURGE (EVA, EVA PREP)	EMU PURGE (EVA, EVA PREP)	EMU PURGE (EVA, EVA PREP)	
10:00				EMU PREBREATHE (EVA, EVA PREP)	EMU PREBREATHE (EVA, EVA PREP)	EMU PREBREATHE (EVA, EVA PREP)	EMU PREBREATHE (EVA, EVA PREP)	
17:00				DEPRESS (Cue Card, DEPRESS/REPRESS)	DEPRESS (Cue Card, DEPRESS/REPRESS)	DEPRESS (Cue Card, DEPRESS/REPRESS)	DEPRESS (Cue Card, DEPRESS/REPRESS)	
				POST DEPRESS (CC, DPRS/RPRS)	POST DEPRESS (CC, DPRS/RPRS)	POST DEPRESS (CC, DPRS/RPRS)	POST DEPRESS (CC, DPRS/RPRS)	
11:00								
					EGRESS/INITIAL SETUP		EGRESS/INITIAL SETUP	
18:00								
12:00				IVA EVA 1 SUPPORT		IVA EVA 1 SUPPORT		
19:00					WFC 3		WFC 3	
13:00								
20:00								

STS-125 (FD04)



UPLINK
 β21 + Mask
 Boxes 1,2

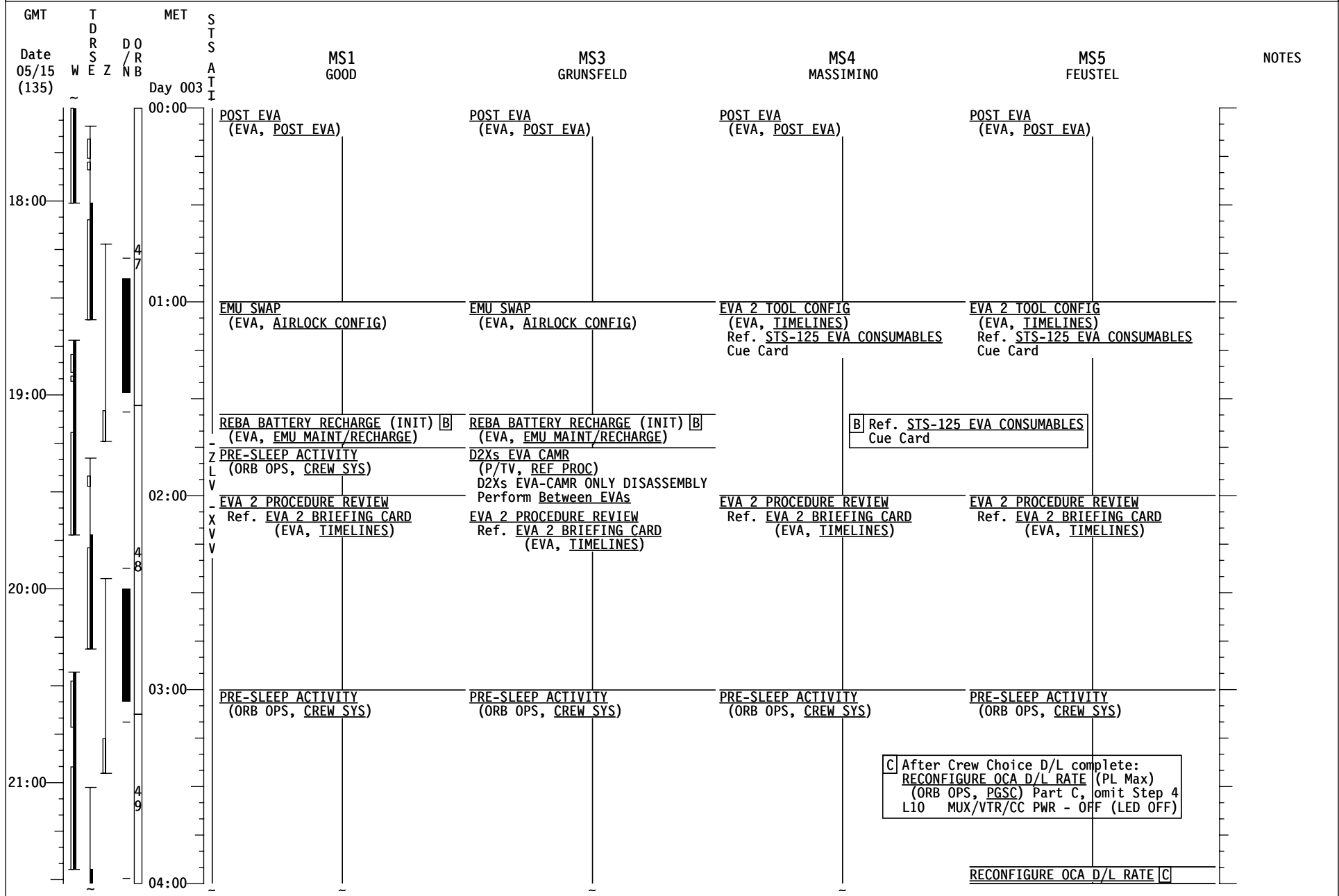
STS-125 (FD04)



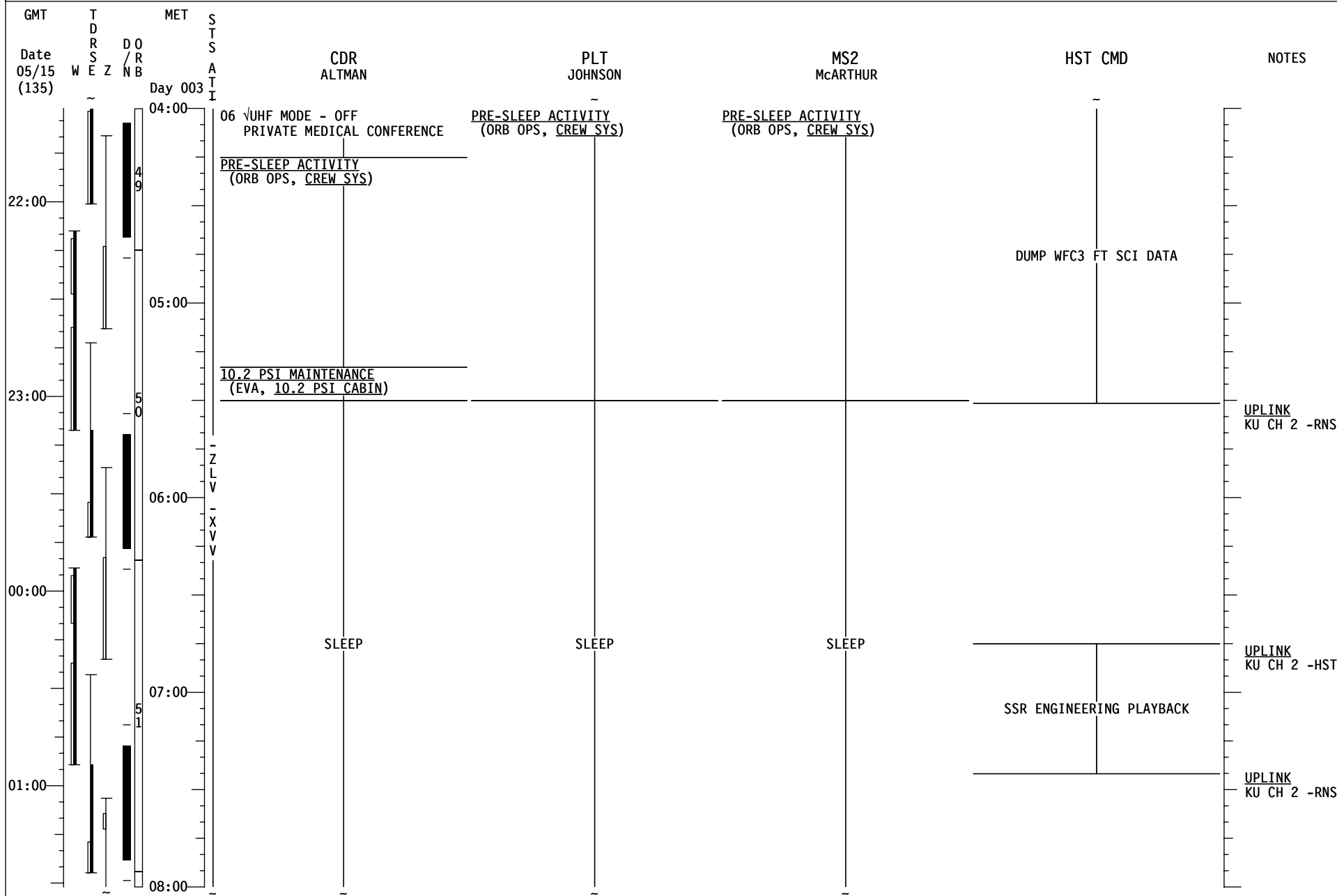
STS-125 (FD04)

GMT	TDRS W E Z	MET D O R N B	S T S A T I	CDR ALTMAN	PLT JOHNSON	MS2 McARTHUR	HST CMD	NOTES
Date 05/15 (135)		Day 003						
18:00				10.2 PSI MAINTENANCE (EVA, 10.2 PSI CABIN) G2 SET CONTRACTION (ORB OPS, DPS) Configure Single G2, (1111)	EXERCISE		DUMP SI C&DH-R FT SCIENCE DATA	UPLINK KU CH 2 -HST
19:00					NLP TERMINATION (PL OPS, NLP) Terminate GAPS 1-14			UPLINK KU CH 2 -OCA
					HELMET LIGHT/PGT BATTERY RECHARGE (INIT) (EVA, EMU MAINT/RECHARGE) Ref. STS-125 EVA CONSUMABLES Cue Card			
20:00				Z FUTURE LOADED MNVR (Simo Dump) L TG=2 BV=3 OM=270 V A10/AUTO/VERN (3/14:45)Init TRK	ICBC3D STATUS REPORT HD DIGITAL VIA CC (ACTIVATION) (Cue Card, DIGITAL PLAYBACK)		WFC3 FUNCTIONAL TEST AND SAFE WFC3	UPLINK KU CH 3 -DTV
				EVA 2 PROCEDURE REVIEW Ref. EVA 2 BRIEFING CARD (EVA, TIMELINES)	EVA 2 PROCEDURE REVIEW Ref. EVA 2 BRIEFING CARD (EVA, TIMELINES)	EVA 2 PROCEDURE REVIEW Ref. EVA 2 BRIEFING CARD (EVA, TIMELINES)		
21:00				SUPPLY WATER DUMP USING FES (ORB OPS, ECLS) Step 2 only, FES PRI B req'd PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		UPLINK PDI FDA -INH
					A Ref. STS-125 EVA CONSUMABLES Cue Card			UPLINK KU CH 2 -HST
					MIDDECK EMU BATTERY RECHARGE (Init) (EVA, EMU MAINT/RECHARGE) A		DUMP WFC3 FT SCI DATA	
04:00				PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		PDIP 1 KU BAND RATE - OFF		

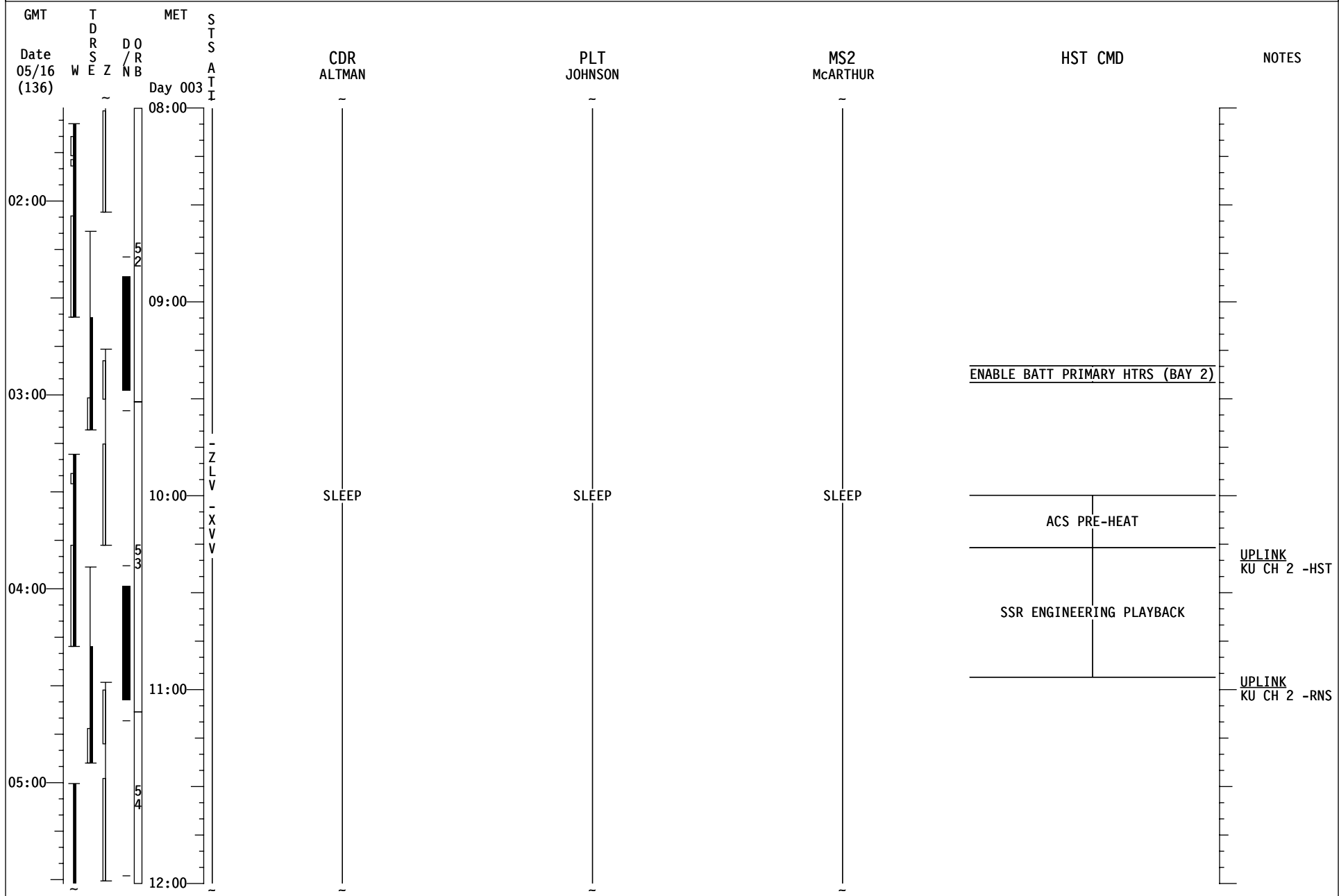
STS-125 (FD04)



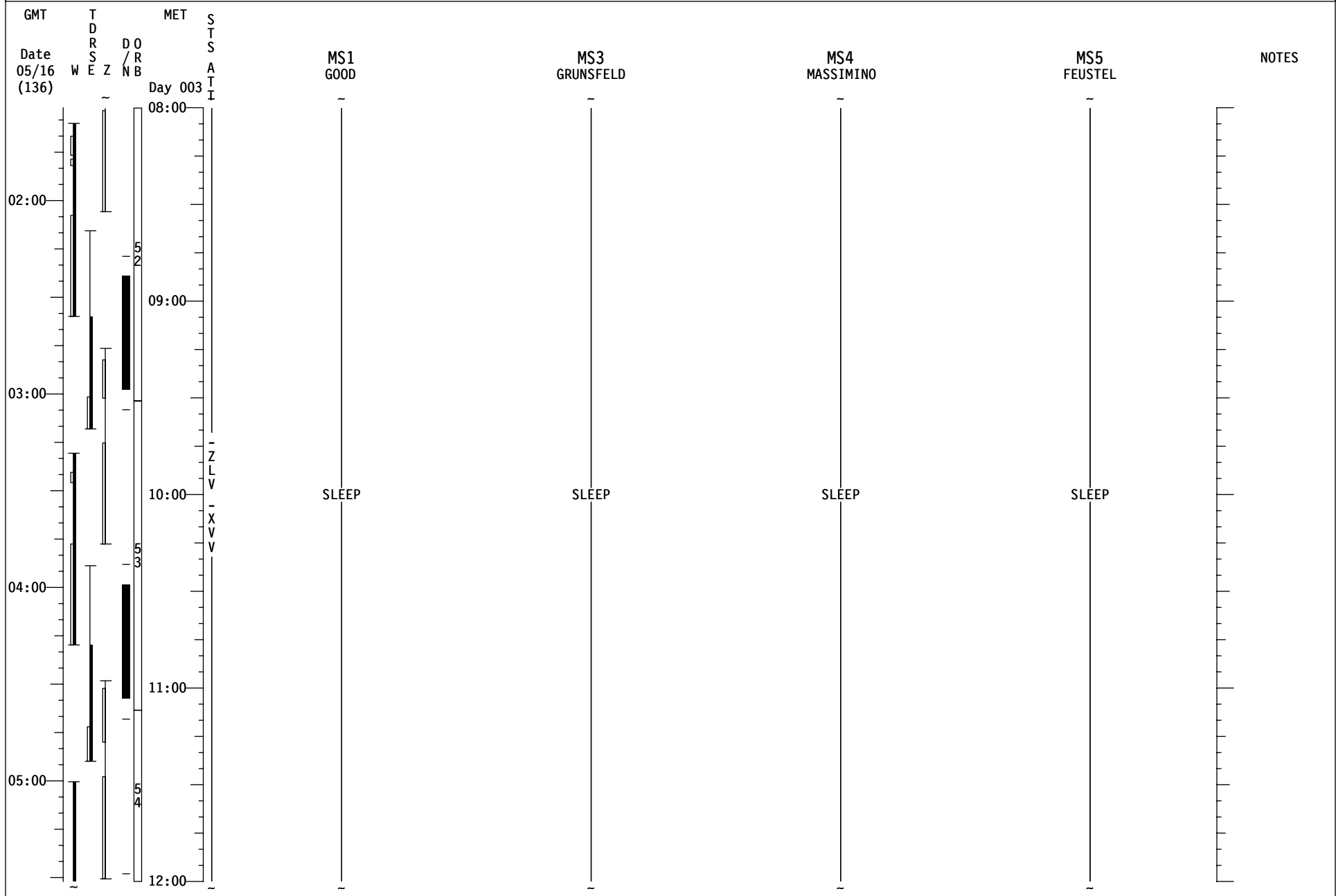
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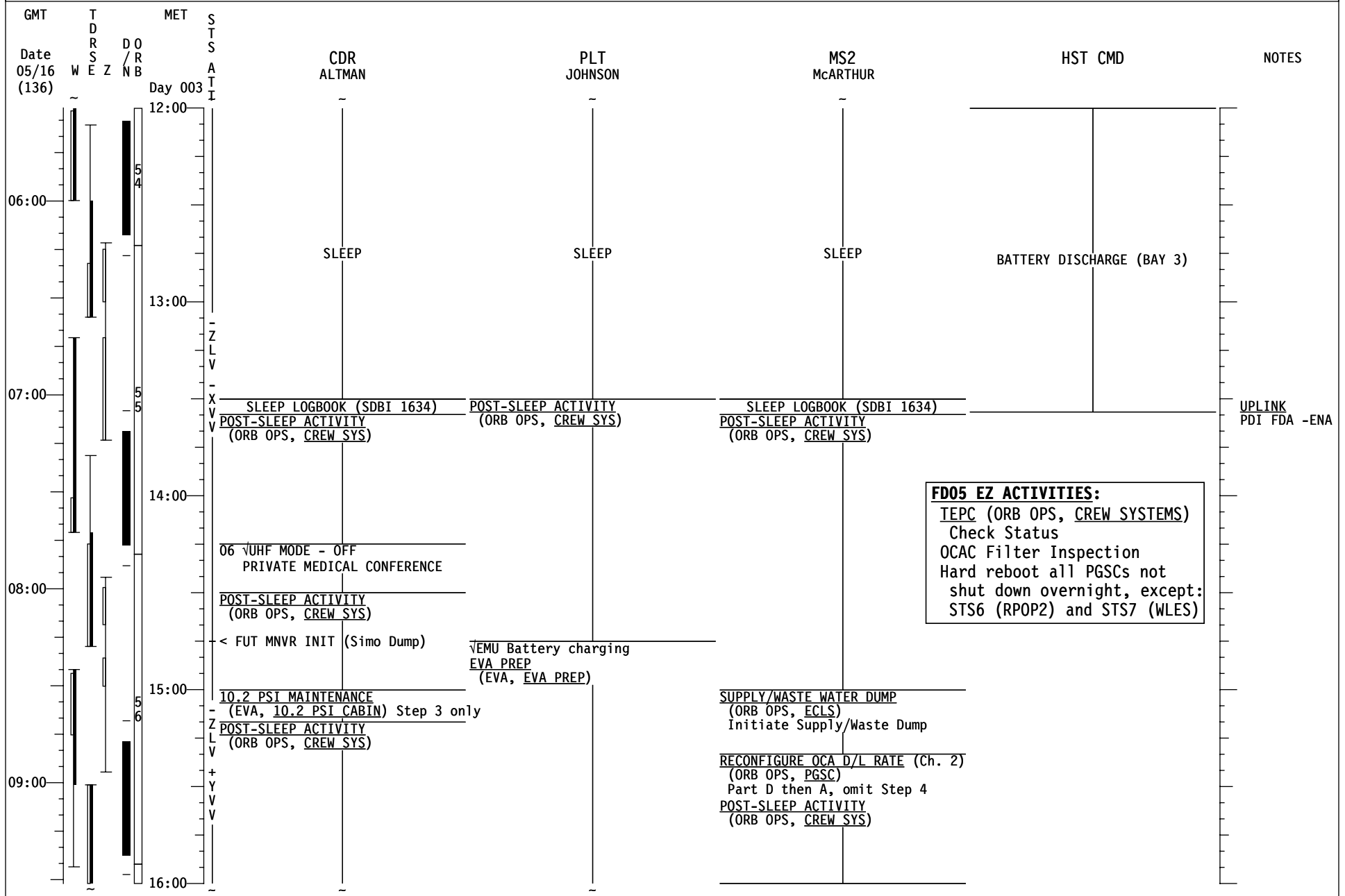
STS-125 (FD04)



STS-125 (FD04)

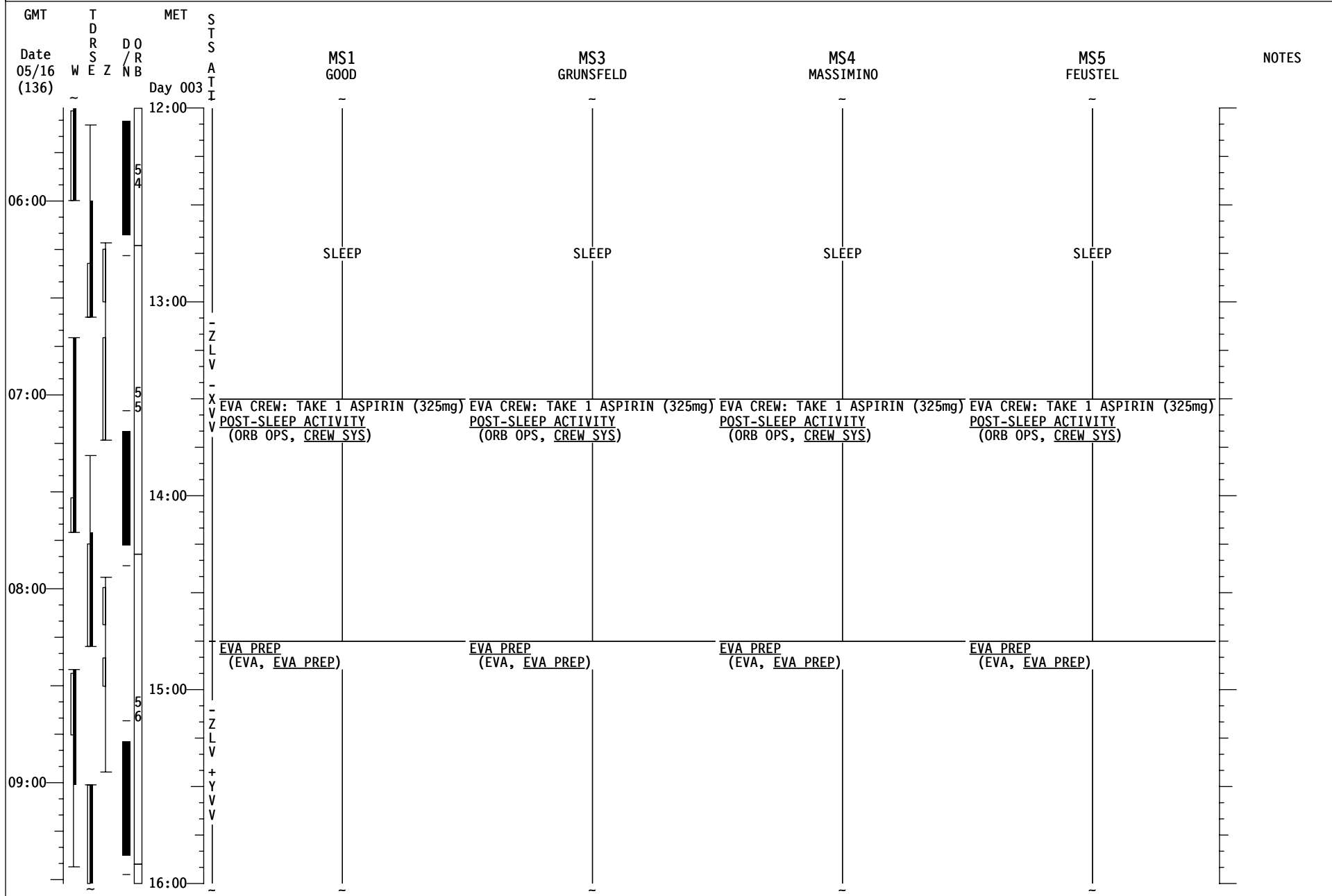


STS-125 (FD05)



FD05 EZ ACTIVITIES:
TEPC (ORB OPS, CREW SYSTEMS)
 Check Status
 OCAC Filter Inspection
 Hard reboot all PGSCs not shut down overnight, except: STS6 (RPOP2) and STS7 (WLES)

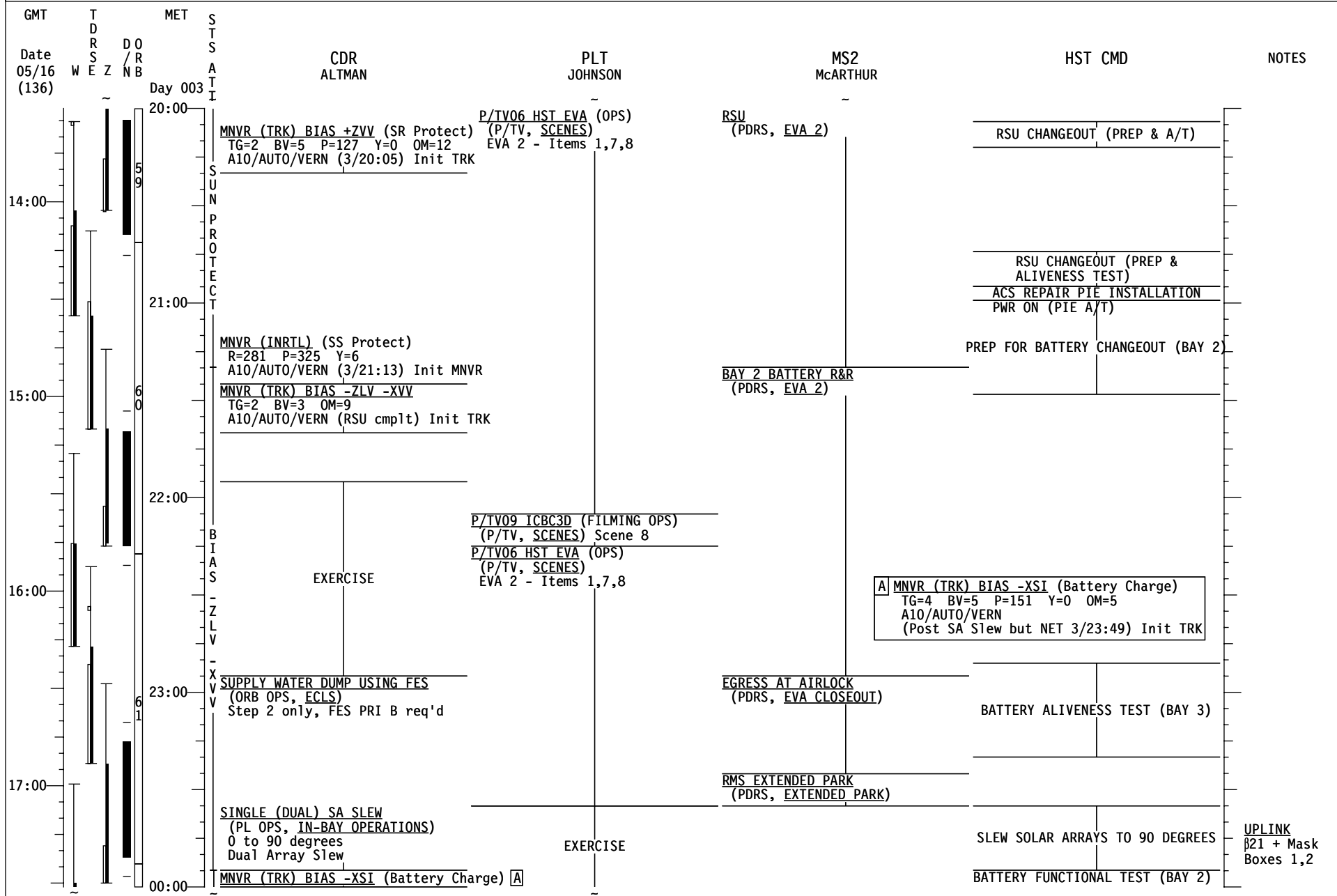
STS-125 (FD05)



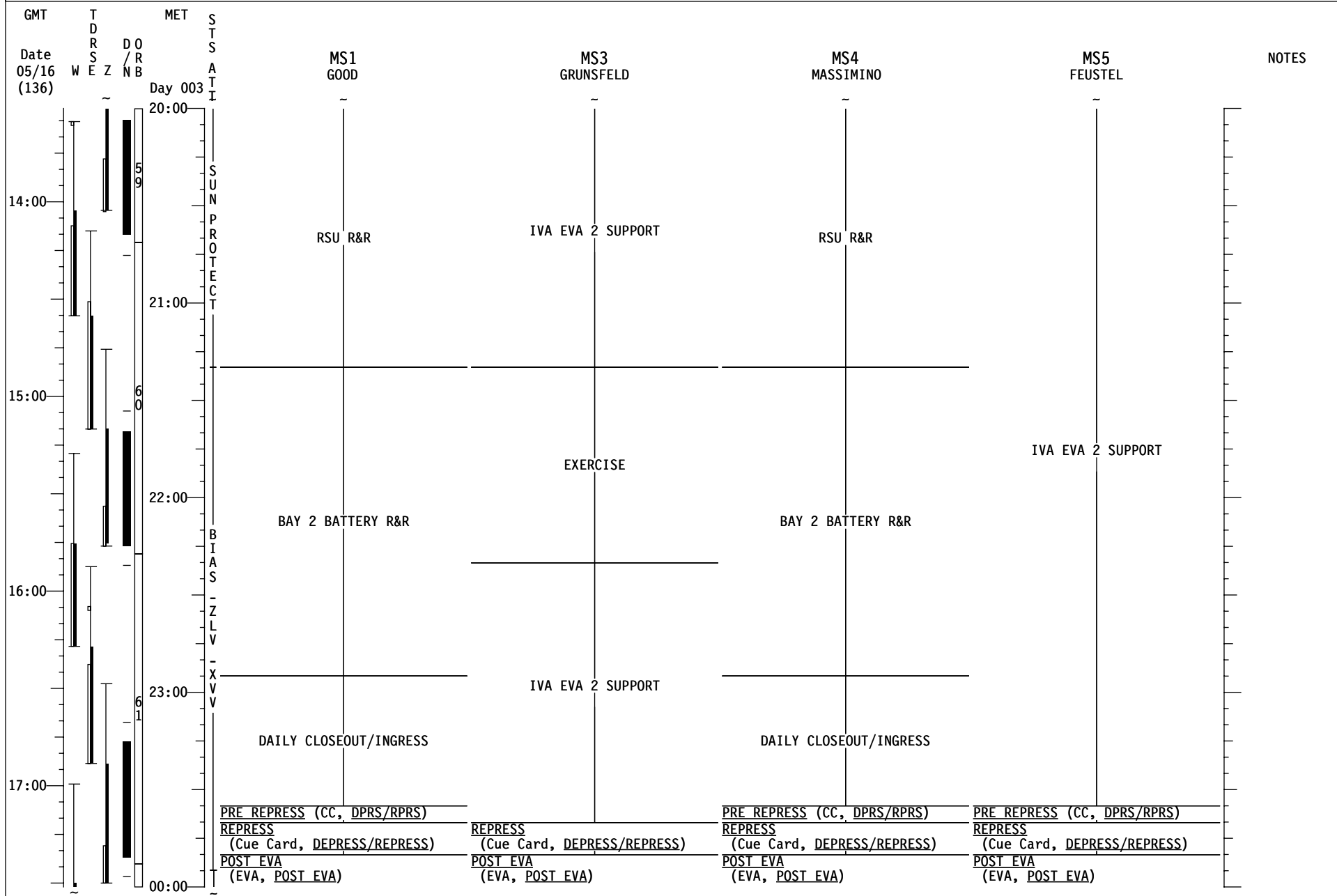
STS-125 (FD05)

GMT	T D R S E Z	MET	S T S A T I	MS1 GOOD	MS3 GRUNSFELD	MS4 MASSIMINO	MS5 FEUSTEL	NOTES
Date 05/16 (136)	W E Z	Day 003						
16:00				EVA PREP (EVA, EVA PREP)	EVA PREP (EVA, EVA PREP)	EVA PREP (EVA, EVA PREP)	EVA PREP (EVA, EVA PREP)	
				EMU PURGE (EVA, EVA PREP)	EMU PURGE (EVA, EVA PREP)	EMU PURGE (EVA, EVA PREP)	EMU PURGE (EVA, EVA PREP)	
10:00				EMU PREBREATHE (EVA, EVA PREP)	EMU PREBREATHE (EVA, EVA PREP)	EMU PREBREATHE (EVA, EVA PREP)	EMU PREBREATHE (EVA, EVA PREP)	
17:00				DEPRESS (Cue Card, DEPRESS/REPRESS)	DEPRESS (Cue Card, DEPRESS/REPRESS)	DEPRESS (Cue Card, DEPRESS/REPRESS)	DEPRESS (Cue Card, DEPRESS/REPRESS)	
				POST DEPRESS (CC, DPRS/RPRS)		POST DEPRESS (CC, DPRS/RPRS)	POST DEPRESS (CC, DPRS/RPRS)	
11:00				EGRESS/DAILY SETUP		EGRESS/DAILY SETUP		
							EXERCISE	
18:00								
12:00					IVA EVA 2 SUPPORT			
				RSU R&R		RSU R&R		
19:00							IVA EVA 2 SUPPORT	
13:00								
20:00								

STS-125 (FD05)



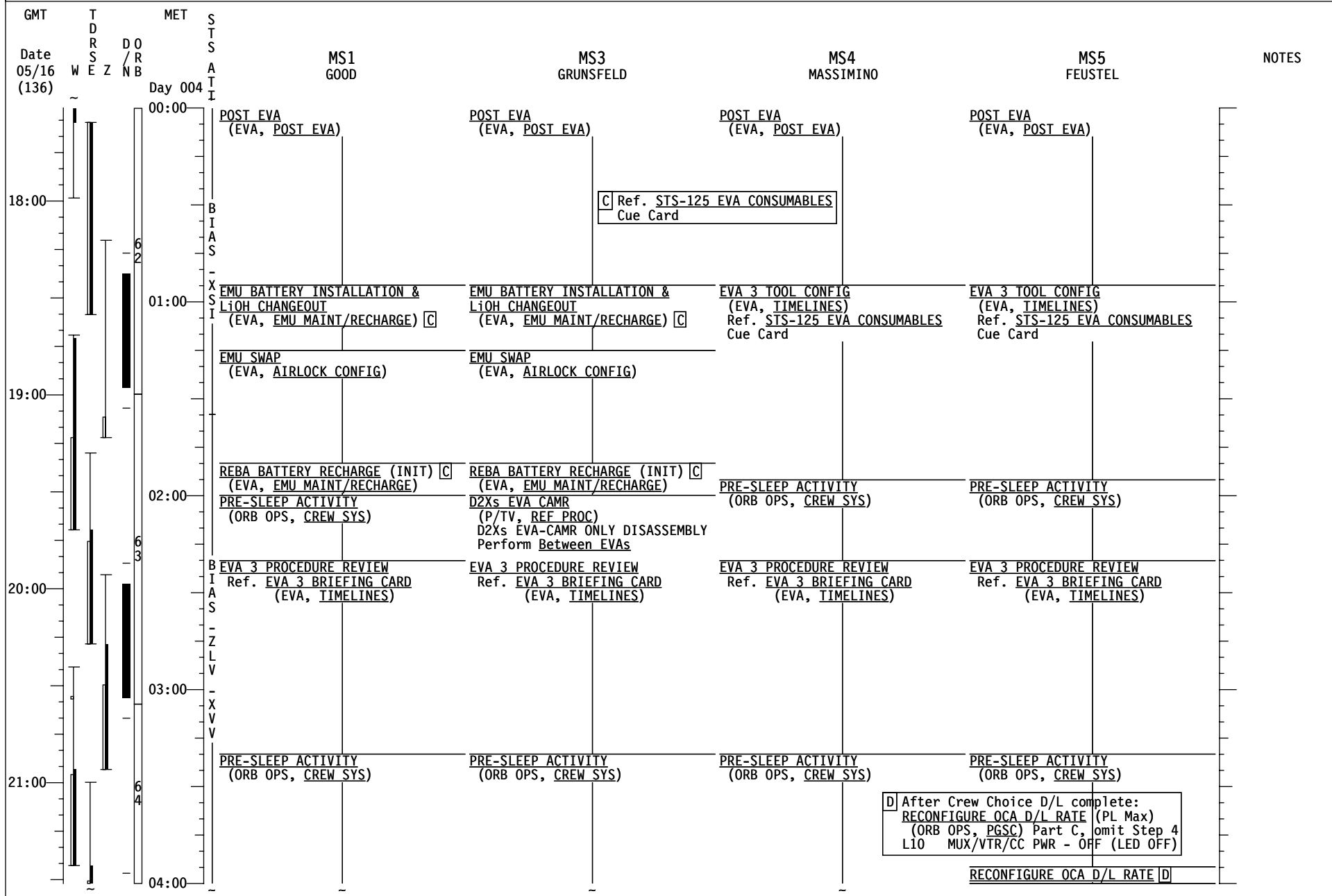
STS-125 (FD05)



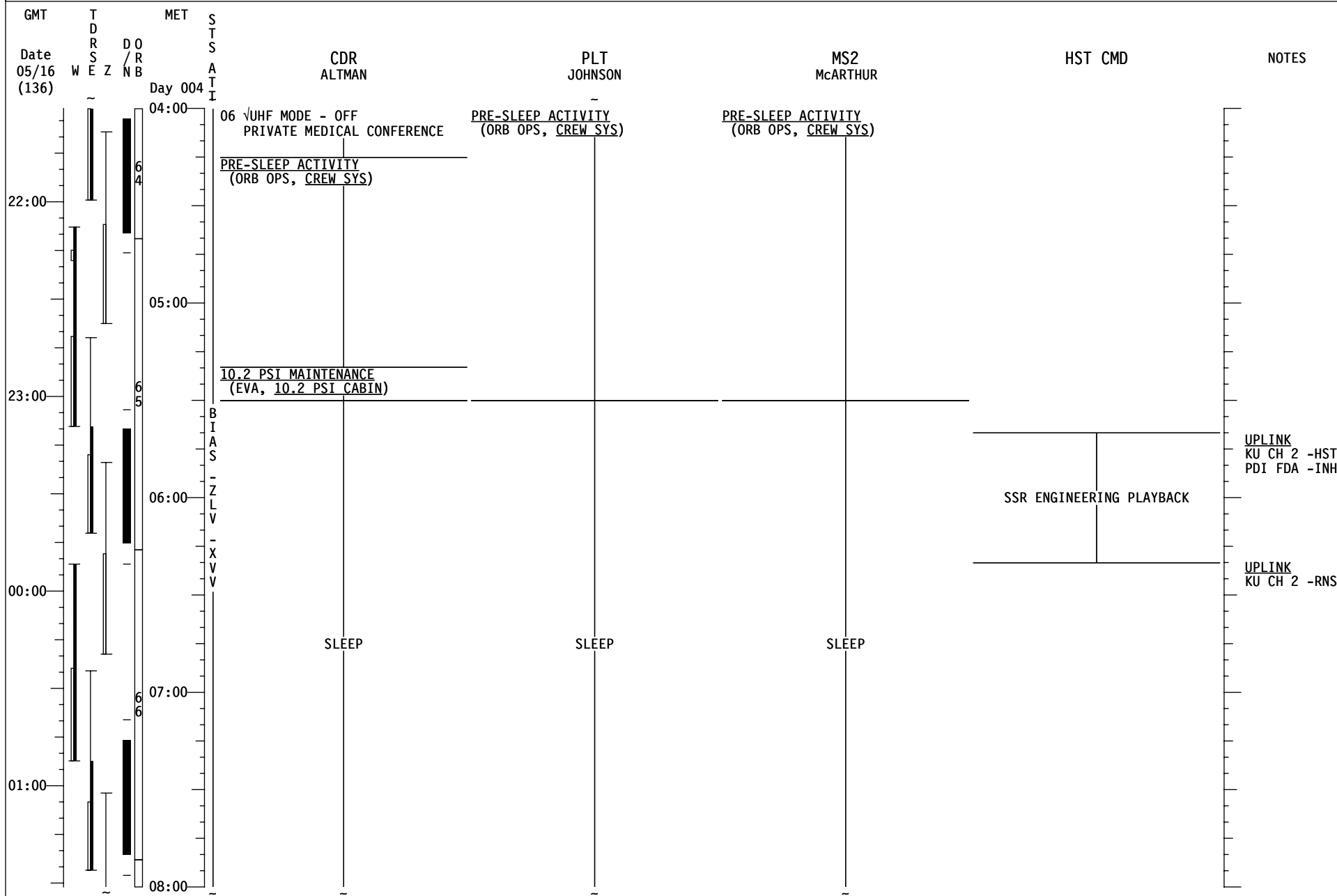
STS-125 (FD05)

GMT	TDRS WSEZ	MET DOB NB	STS ATTI	CDR ALTMAN	PLT JOHNSON	MS2 McARTHUR	HST CMD	NOTES
Date 05/16 (136)		Day 004						
18:00					EXERCISE			
					G2 SET CONTRACTION (ORB OPS, DPS) Configure Single G2, (1111)			
					MIDDECK EMU BATTERY RECHARGE (TERM) (EVA, EMU MAINT/RECHARGE)		BATTERY FUNCTIONAL TEST (BAY 2)	
					HELMET LIGHT/PGT BATTERY RECHARGE (INIT) (EVA, EMU MAINT/RECHARGE) Ref. STS-125 EVA CONSUMABLES Cue Card			
19:00								
					MNVR (TRK) BIAS -XVV (RSU FT) TG=2 BV=3 OM=25 A10/AUTO/VERN (4/01:35) Init TRK			
					SINGLE (DUAL) SA SLEW (PL OPS, IN-BAY OPERATIONS) 90 to 0 degrees Dual Array Slew		SLEW SOLAR ARRAYS TO 0 DEGREES	
20:00					ICBC3D STATUS REPORT HD DIGITAL VIA CC (ACTIVATION) (Cue Card, DIGITAL PLAYBACK)			
					SSV PWR - OFF			
					EVA 3 PROCEDURE REVIEW Ref. EVA 3 BRIEFING CARD (EVA, TIMELINES)	EVA 3 PROCEDURE REVIEW Ref. EVA 3 BRIEFING CARD (EVA, TIMELINES)	RSU FUNCTIONAL TEST	UPLINK KU CH 3 -DTV
					EVA 3 PROCEDURE REVIEW Ref. EVA 3 BRIEFING CARD (EVA, TIMELINES)			
							CONFIG NEW RATE GYRO COMPLEMENT	
21:00					PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
					PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
					MIDDECK EMU BATTERY RECHARGE (Init) (EVA, EMU MAINT/RECHARGE) [B]		[B] Ref. STS-125 EVA CONSUMABLES Cue Card	
					PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
04:00						PDIP 1 KU BAND RATE - OFF		UPLINK KU CH 2 -RNS

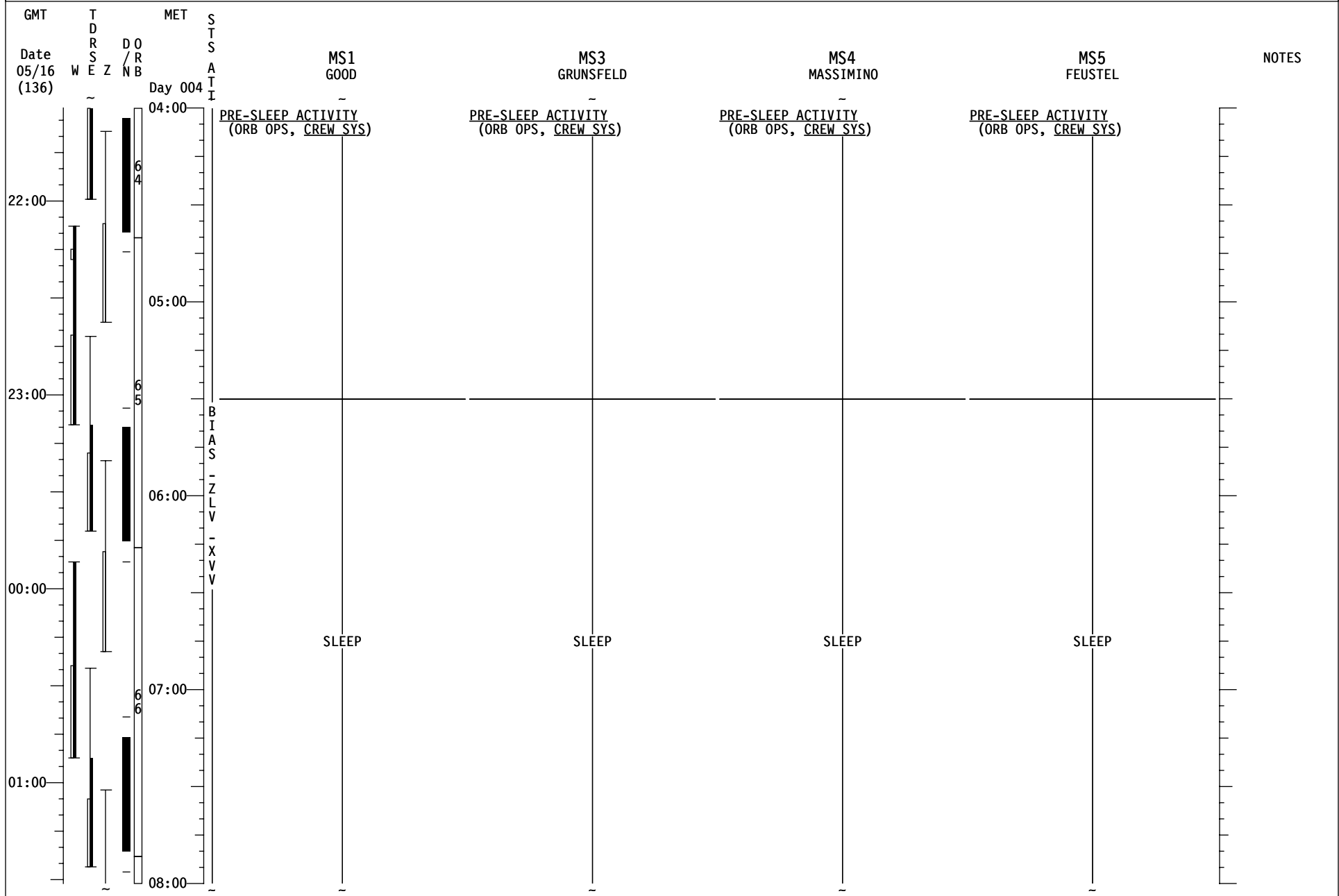
STS-125 (FD05)



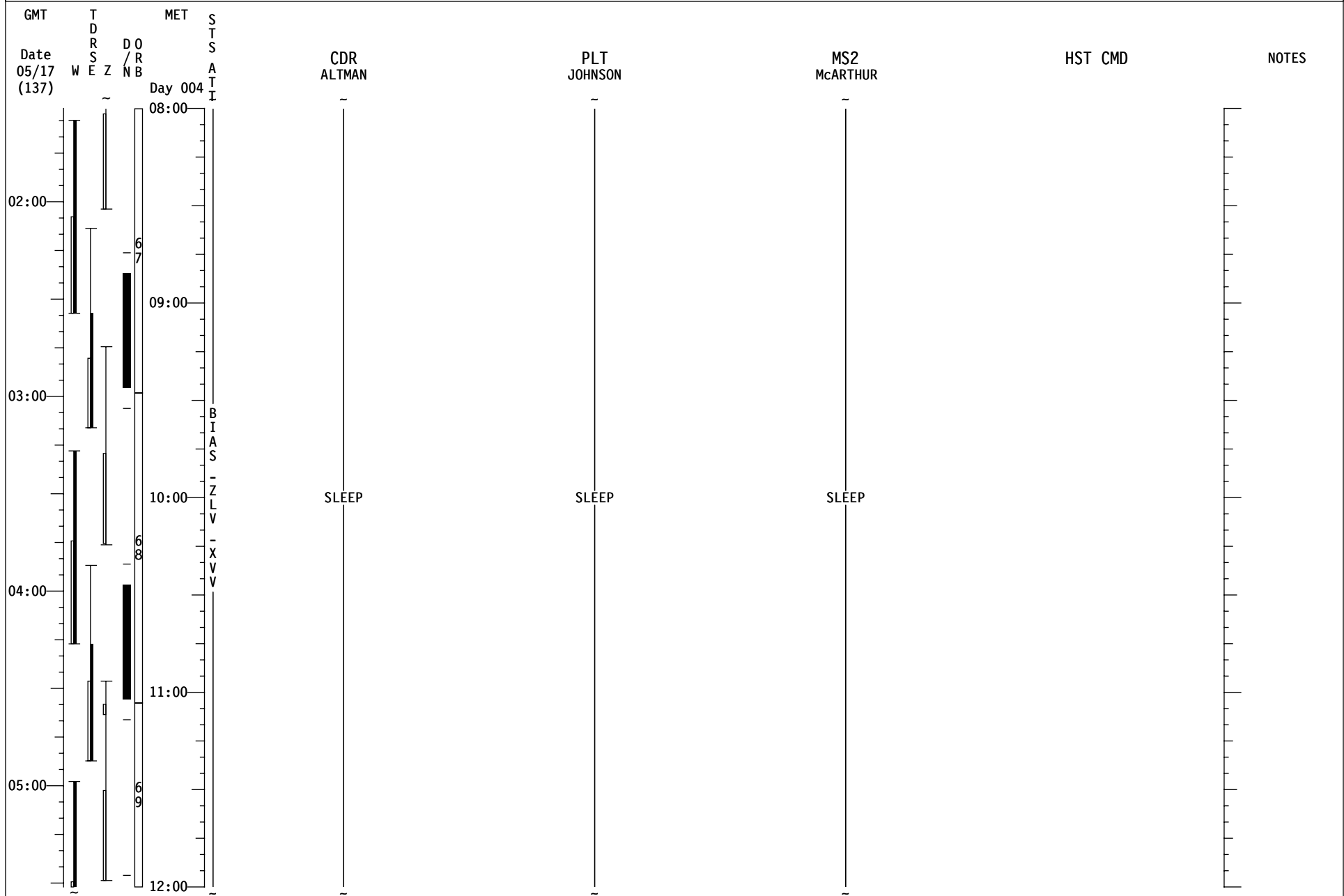
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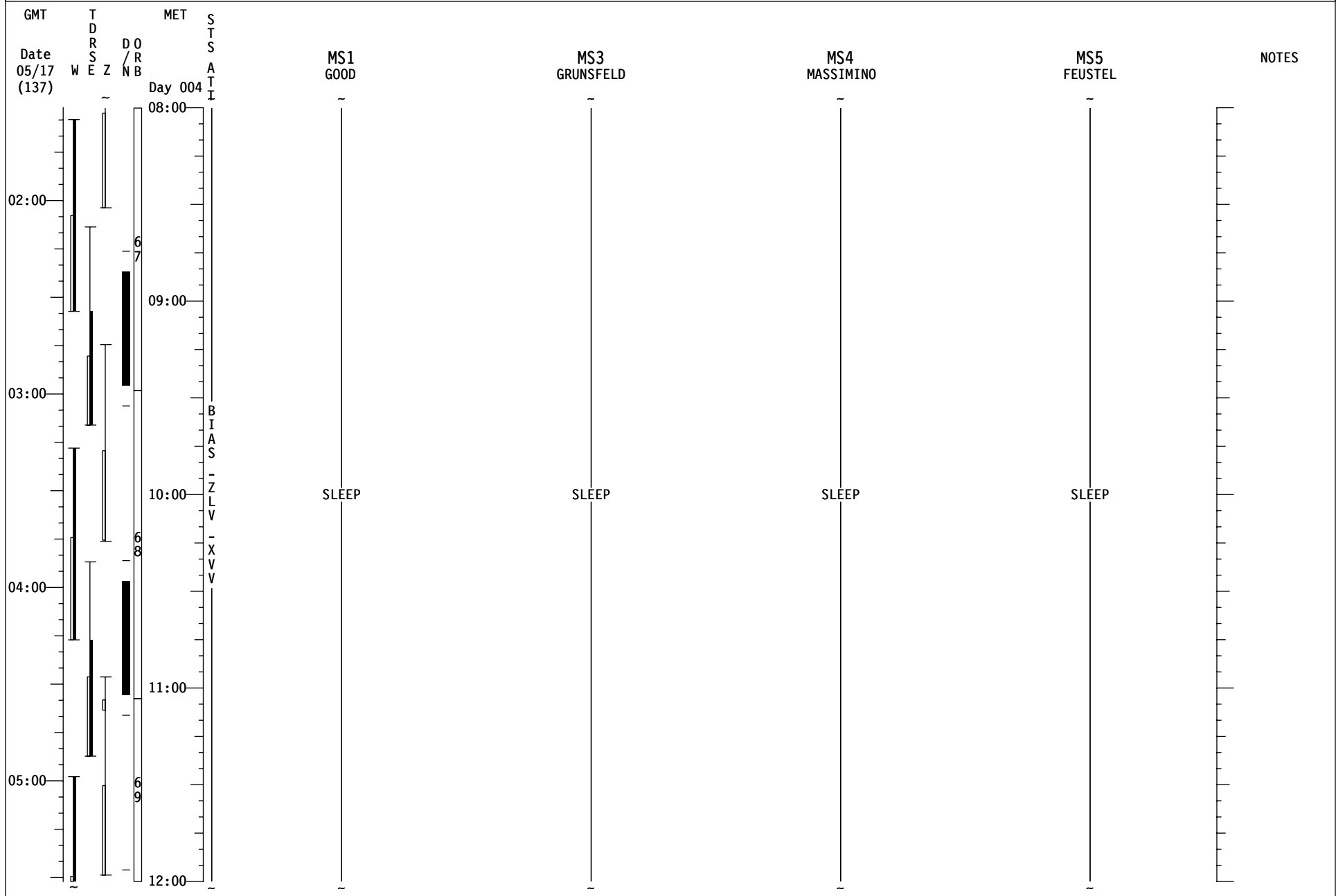
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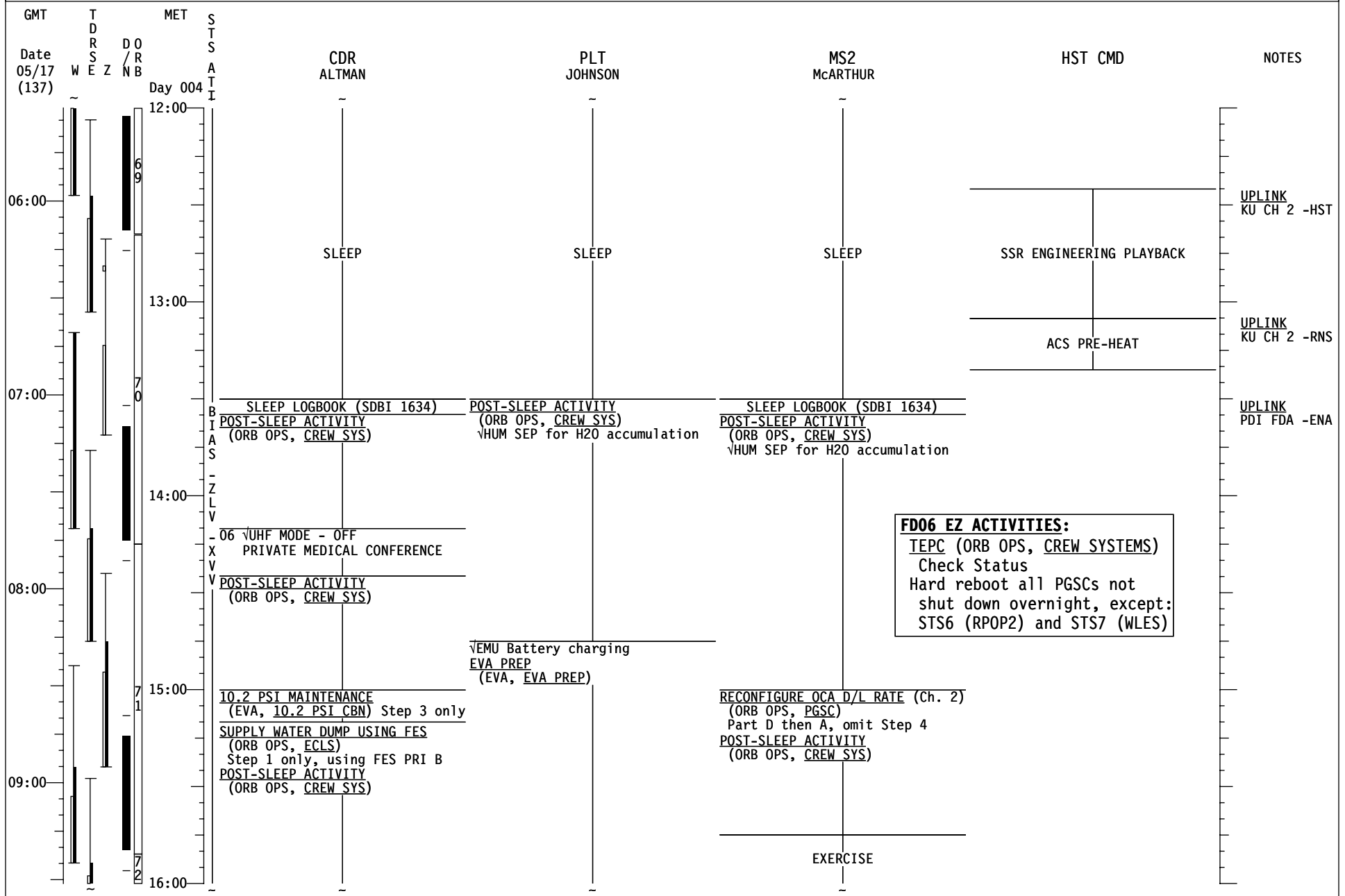
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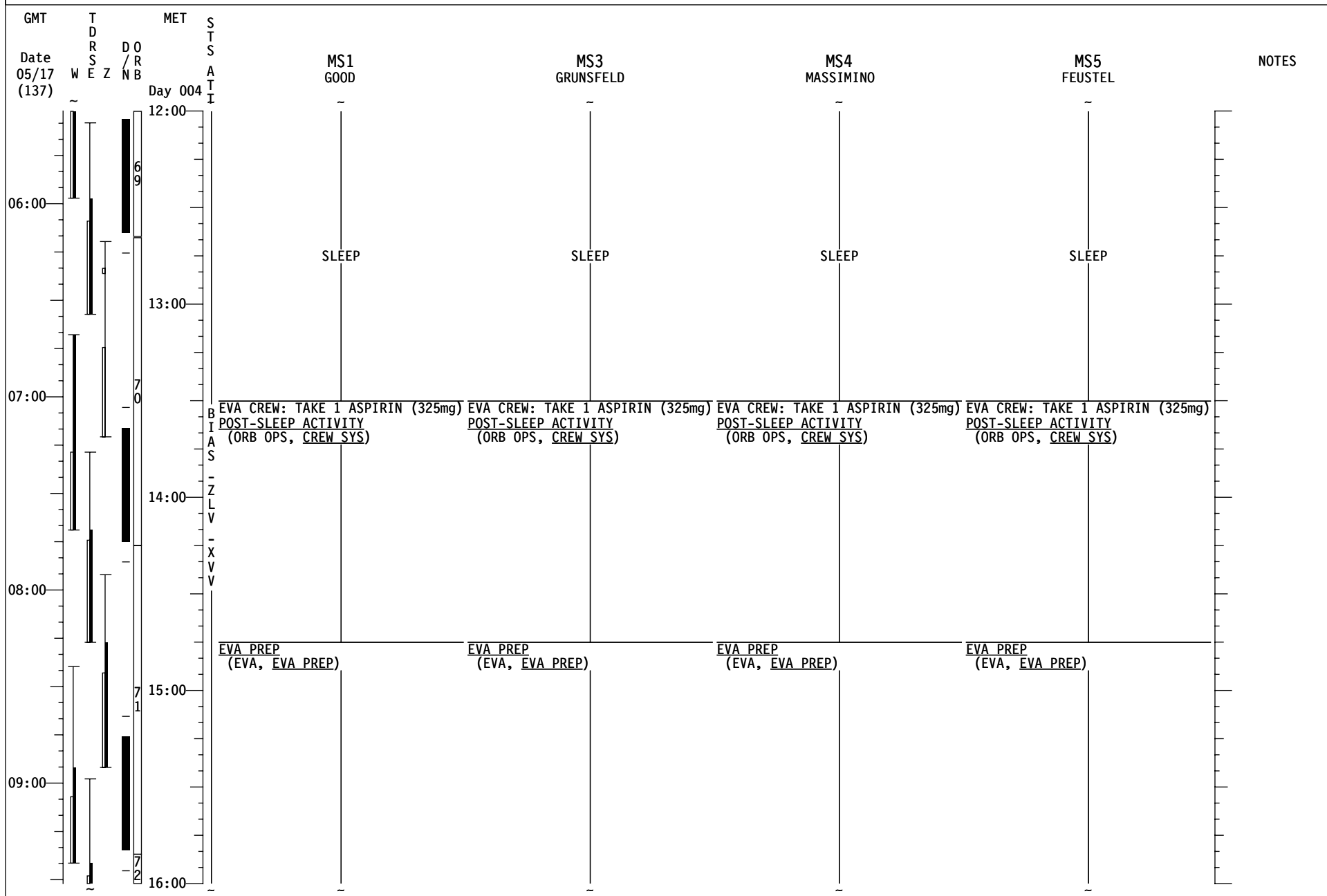
STS-125 (FD05)



STS-125 (FD06)



STS-125 (FD06)



STS-125 (FD06)

GMT	T D R S W E Z	MET D O R N B	S T S A T I	CDR ALTMAN	PLT JOHNSON	MS2 McARTHUR	HST CMD	NOTES
Date 05/17 (137)		Day 004						
16:00				POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	EVA PREP (EVA, EVA PREP)			
				IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)	HELMET LIGHT/PGT BATT RCHRG (TERM) (EVA, EMU MAINT/RECHARGE)	EXERCISE		
10:00				P/TV06 HST EVA (P/TV, SCENES) SETUP	REBA BATTERY RECHARGE (TERM) (EVA, EMU MAINT/RECHARGE)			
					P/TV03 FSS OPS (SETUP & OPS) (P/TV, SCENES) Rotate - Item 2	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
17:00				ROTATE HST (-V3 to -V2 POSN) (PL OPS, IN-BAY OPERATIONS)		ROTATE HST (-V3 to -V2 POSN) (PL OPS, IN-BAY OPERATIONS)		UPLINK β21 + Mask Boxes 1,2,3,4
				G2 SET EXPANSION (ORB OPS, DPS) Configure Dual G2, (1212)				
11:00						DAILY SETUP (PDRS, EVA SETUP)		
					P/TV05 HST SURVEY (OPS) (P/TV, SCENES) -V2 Survey - Items 7 & 9		ESM PREP FOR J11 CONNECTION ESM PREP FOR COS INSTALLATION	
				MNVR (INRTL) (SS Protect) R=280 P=332 Y=6 A10/AUTO/VERN (4/17:51) Init MNVR	P/TV06 HST EVA (OPS) (P/TV, SCENES) EVA 3 - Items 1,9,10	COS (PDRS, EVA 3)	COS/COSTAR CHANGEOUT (INCLUDES PREP & CHECK-OUT)	
18:00					P/TV09 ICBC3D (FILMING OPS) (P/TV, SCENES) Scene 9			
					P/TV09 ICBC3D (FILMING OPS) (P/TV, SCENES) Scene 10			
12:00				MNVR (TRK) BIAS +ZVV (SR Prtct) TG=2 BV=5 P=155 Y=0 OM=5 A10/AUTO/VERN (4/18:28) Init TRK	P/TV06 HST EVA (OPS) (P/TV, SCENES) EVA 3 - Items 1,9,10			
					P/TV09 ICBC3D (FILMING OPS) (P/TV, SCENES) Scene 11			
					P/TV09 ICBC3D (FILMING OPS) (P/TV, SCENES) Scene 12			
19:00					P/TV06 HST EVA (OPS) (P/TV, SCENES) EVA 3 - Items 1,9,10			
13:00				MNVR (INRTL) (SS Protect) R=280 P=332 Y=6 A10/AUTO/VERN (4/19:27) Init MNVR				
20:00							COS ALIVENESS TEST	

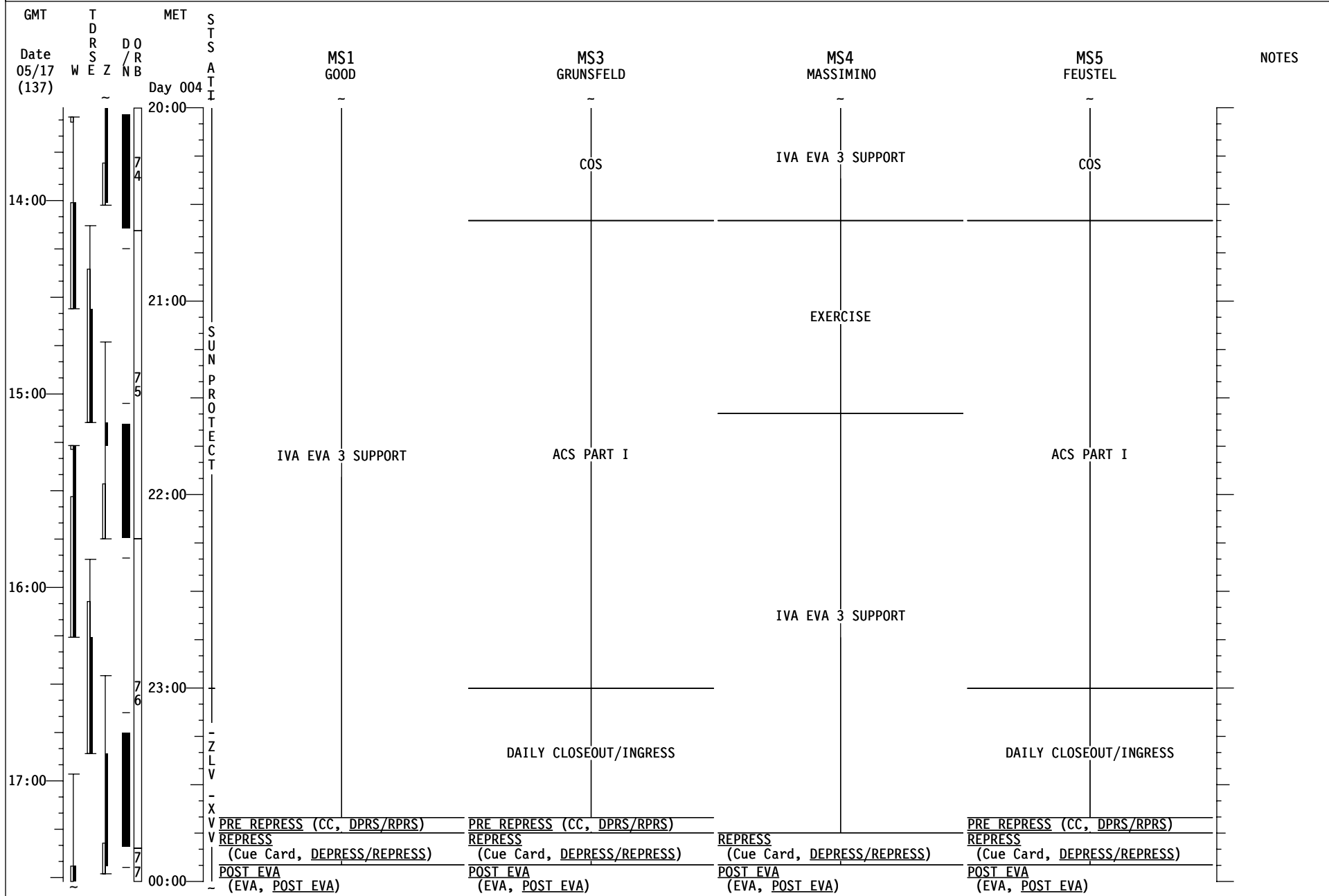
STS-125 (FD06)

GMT	T D R S E Z	MET	S T S A T I	MS1 GOOD	MS3 GRUNSFELD	MS4 MASSIMINO	MS5 FEUSTEL	NOTES
Date 05/17 (137)	W E Z	Day 004	7 2					
			16:00	EVA PREP (EVA, EVA PREP)	EVA PREP (EVA, EVA PREP)	EVA PREP (EVA, EVA PREP)	EVA PREP (EVA, EVA PREP)	
				EMU PURGE (EVA, EVA PREP)	EMU PURGE (EVA, EVA PREP)	EMU PURGE (EVA, EVA PREP)	EMU PURGE (EVA, EVA PREP)	
				EMU PREBREATHE (EVA, EVA PREP)	EMU PREBREATHE (EVA, EVA PREP)	EMU PREBREATHE (EVA, EVA PREP)	EMU PREBREATHE (EVA, EVA PREP)	
			17:00	DEPRESS (Cue Card, DEPRESS/REPRESS)	DEPRESS (Cue Card, DEPRESS/REPRESS)	DEPRESS (Cue Card, DEPRESS/REPRESS)	DEPRESS (Cue Card, DEPRESS/REPRESS)	
				POST DEPRESS (CC, DPRS/RPRS)	POST DEPRESS (CC, DPRS/RPRS)		POST DEPRESS (CC, DPRS/RPRS)	
			11:00		EGRESS/DAILY SETUP		EGRESS/DAILY SETUP	
				EXERCISE				
			18:00					
						IVA EVA 3 SUPPORT		
			12:00					
					COS		COS	
			19:00	IVA EVA 3 SUPPORT				
			13:00					
			7 4					
			20:00					

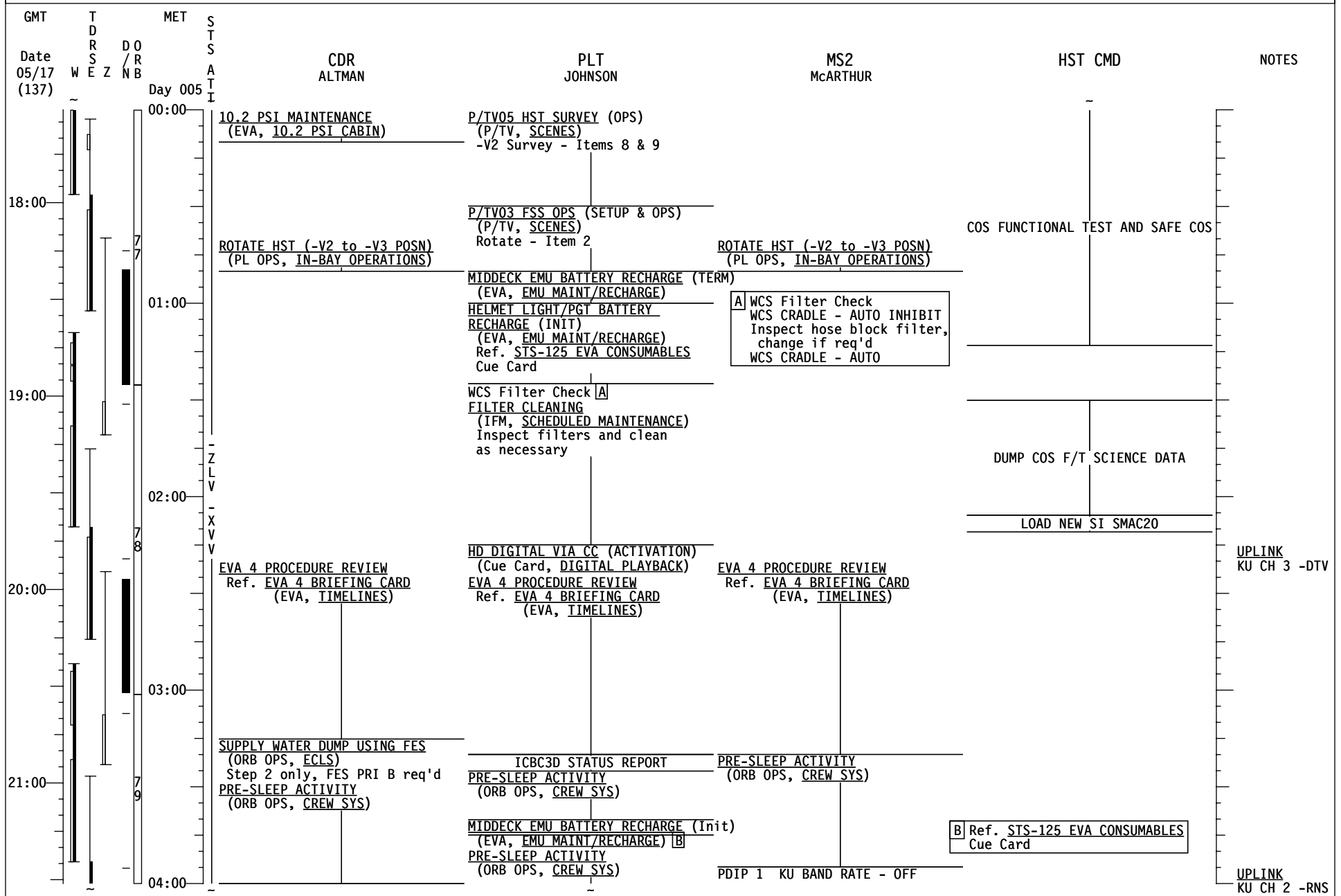
STS-125 (FD06)

GMT	TDRS W E Z	MET D O R N B	S T S A T I	CDR ALTMAN	PLT JOHNSON	MS2 McARTHUR	HST CMD	NOTES
Date 05/17 (137)		Day 004						
14:00				MNVR (TRK) BIAS +ZVV (SR Prtct) TG=2 BV=5 P=155 Y=0 OM=5 A10/AUTO/VERN (4/20:04) Init TRK	P/TV06 HST EVA (OPS) (P/TV, SCENES) Scene 13 EVA 3 - Items 1,9,10	COS (PDRS, EVA 3)	COS ALIVENESS TEST	
						ACS PART 1 (PDRS, EVA 3)		
15:00				MNVR (INRTL) (SS Protect) R=280 P=332 Y=6 A10/AUTO/VERN(4/21:03) Init MNVR	P/TV09 ICBC3D (FILMING OPS) (P/TV, SCENES) Scene 13 P/TV09 ICBC3D (FILMING OPS) (P/TV, SCENES) Scene 4A P/TV06 HST EVA (OPS) (P/TV, SCENES) Scene 13 EVA 3 - Items 1,9,10		SAFE ACS ACS REPAIR PART 1 POWER DOWN	
16:00				MNVR (TRK) BIAS +ZVV (SR Prtct) TG=2 BV=5 P=155 Y=0 OM=5 A10/AUTO/VERN (4/21:40) Init TRK				
17:00				MNVR (INRTL) (SS Protect) R=280 P=332 Y=6 A10/AUTO/VERN (4/22:39) Init MNVR			ACS REPAIR PART I POWER ON ESM RECOVERY AND CONFIG TO J600 ENABLE ESM SURVIVAL HEATERS	
				MNVR (TRK) -ZLV -XVV TG=2 BV=3 OM=0 A10/AUTO/VERN (ACS cmlt) Init TRK		EGRESS AT AIRLOCK (PDRS, EVA CLOSEOUT)		
					EXERCISE	RMS EXTENDED PARK (PDRS, EXTENDED PARK)		
00:00				G2 SET CONTRACTION (ORB OPS, DPS) Configure Single G2, (1111)			COS FUNCTIONAL TEST AND SAFE COS	UPLINK β21 + Mask Boxes 1,2

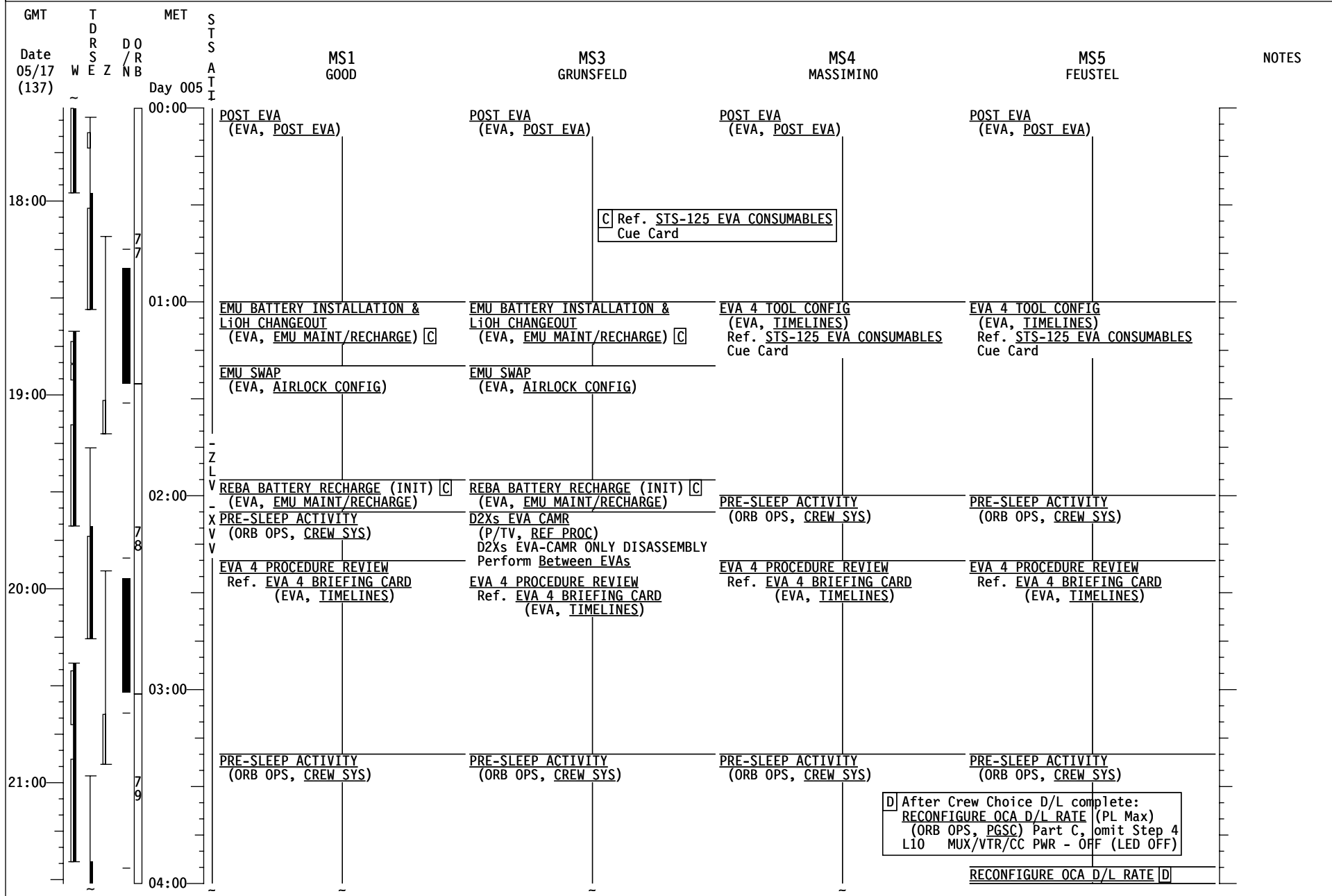
STS-125 (FD06)



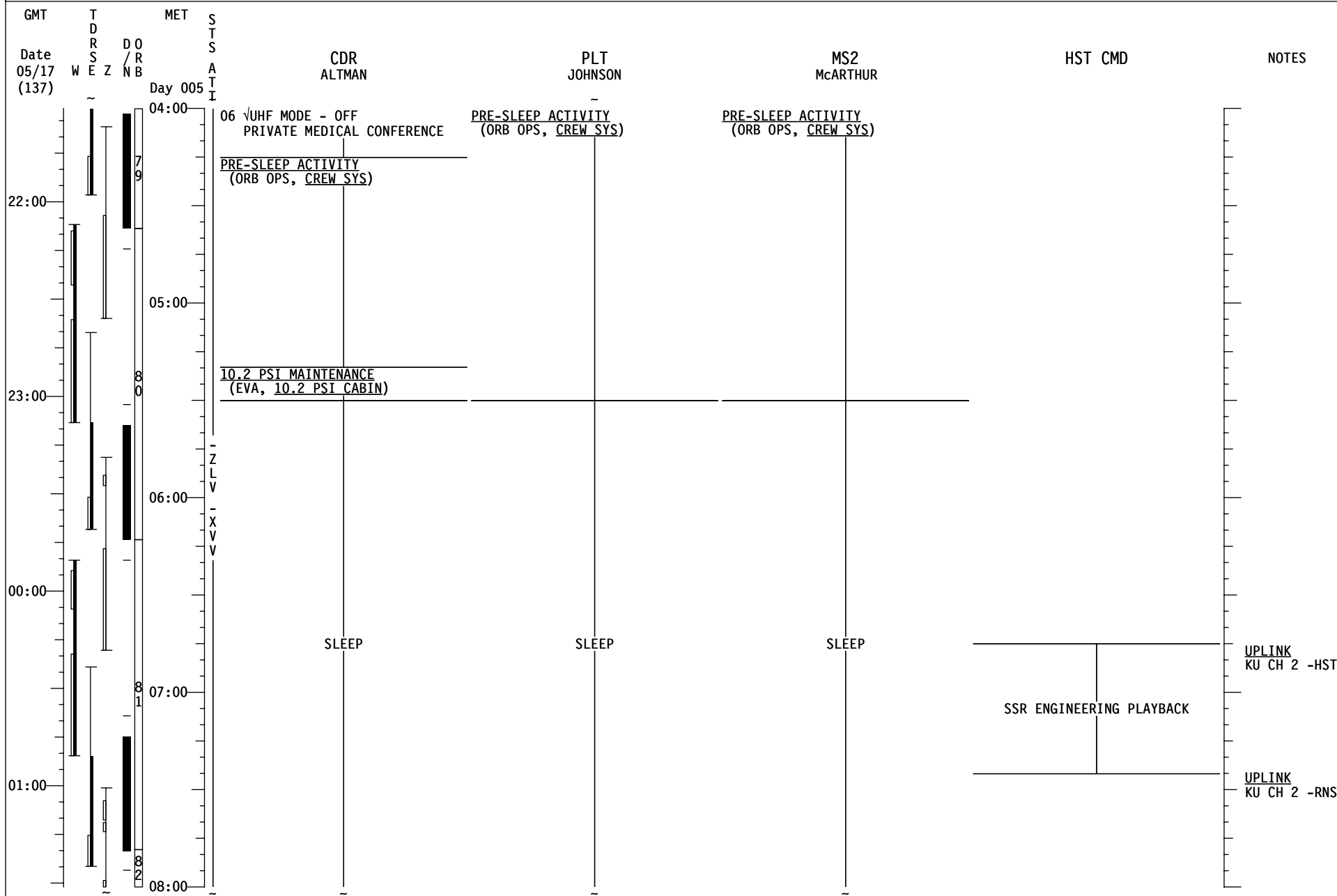
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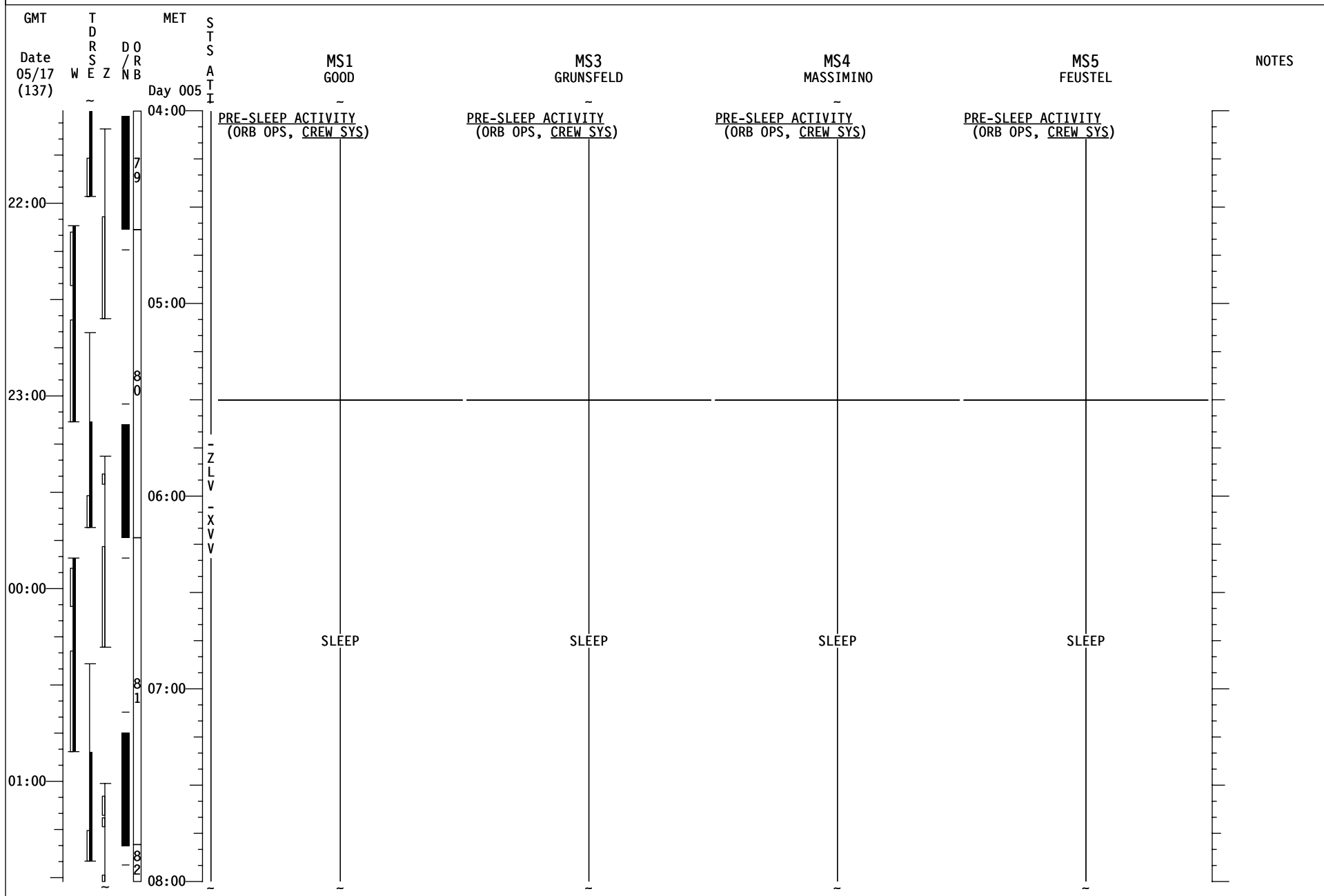
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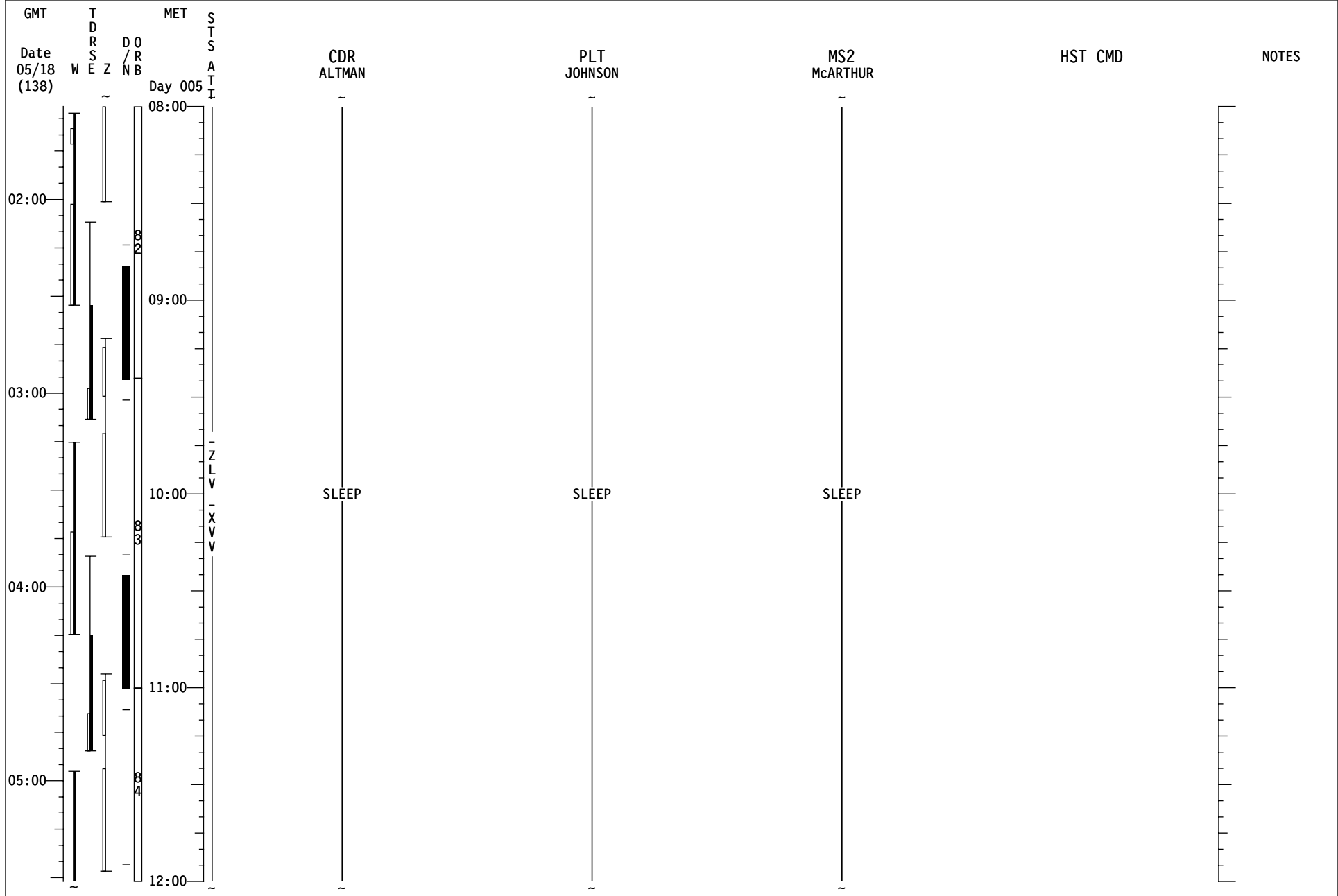
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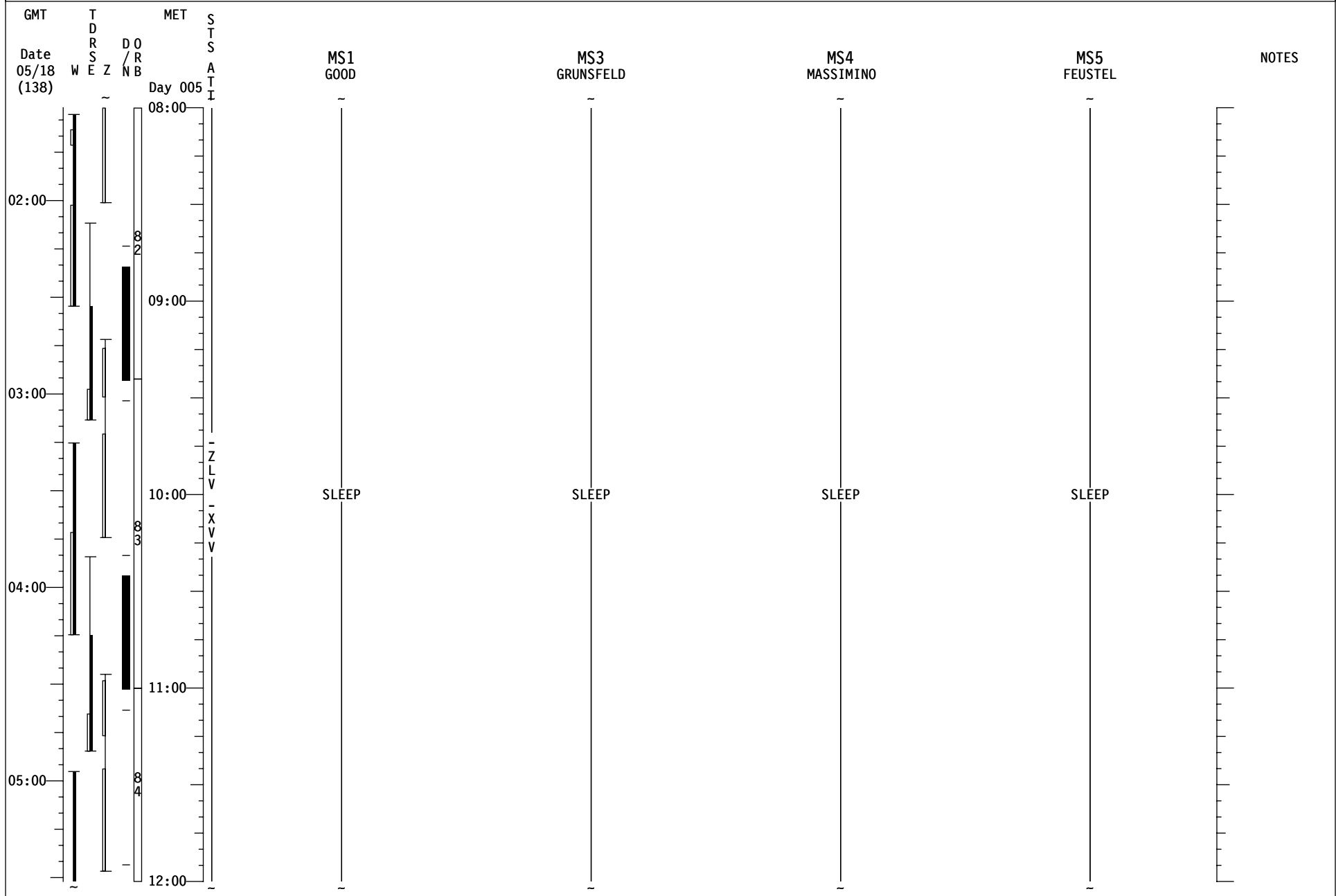
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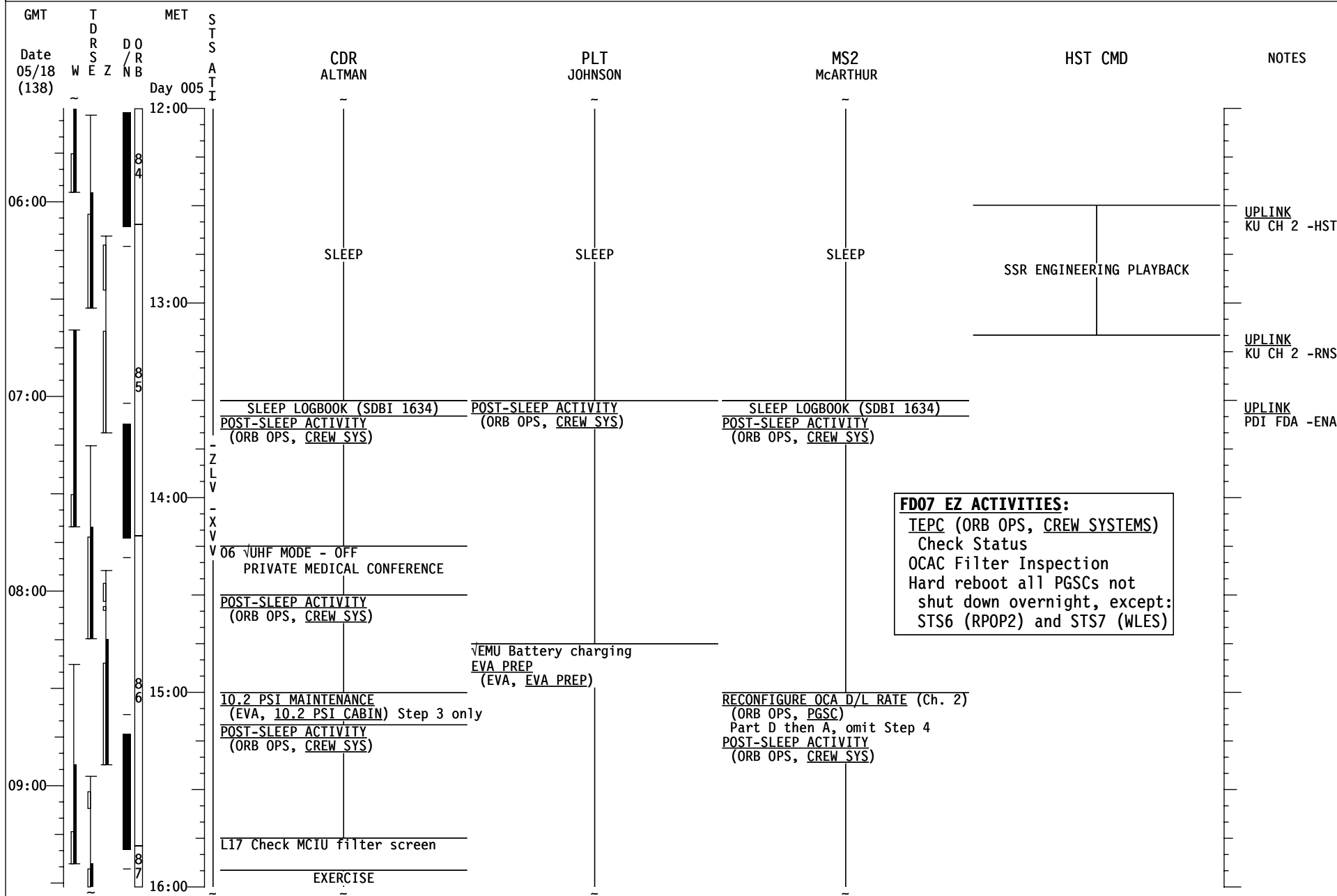
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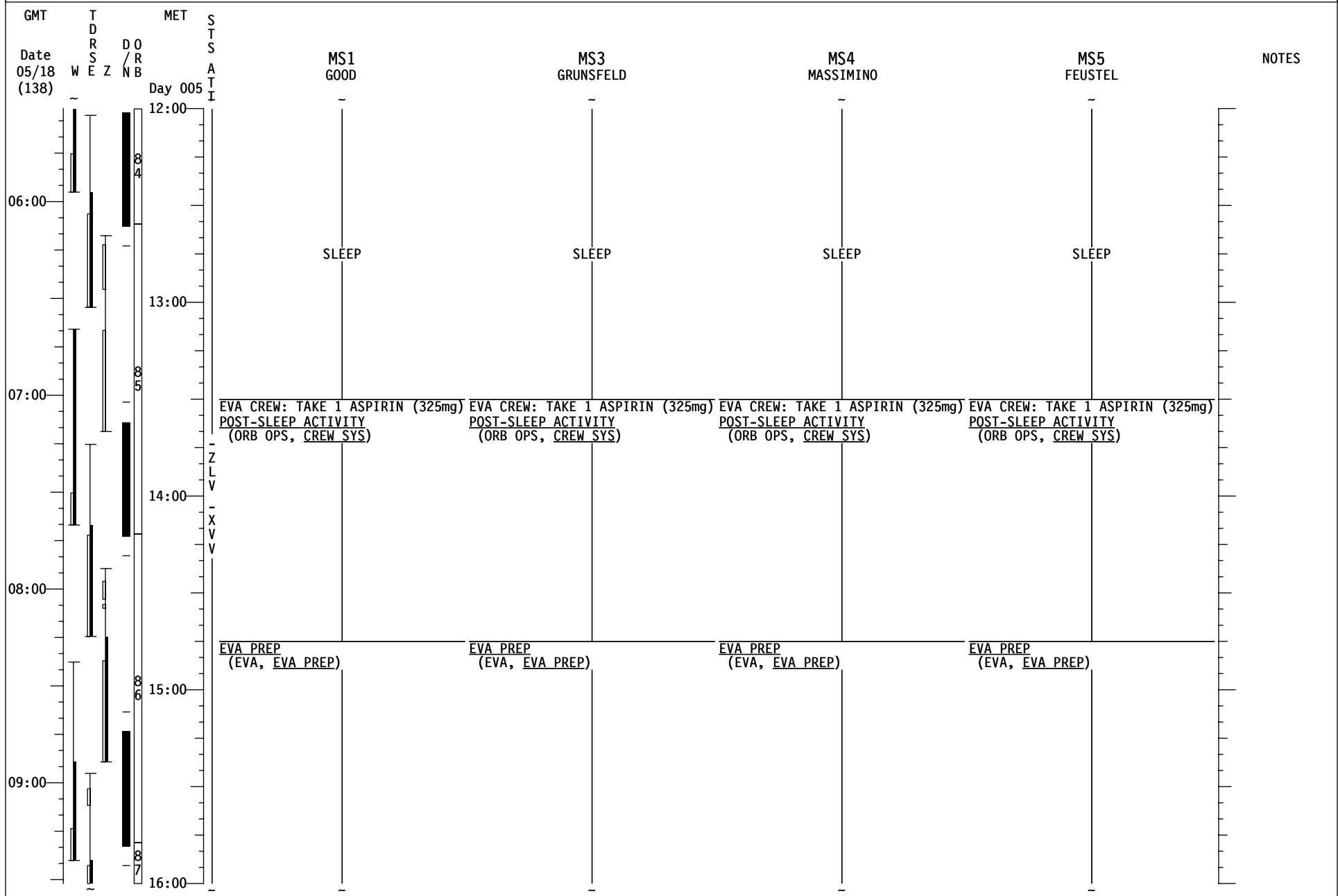
STS-125 (FD06)



STS-125 (FD07)



STS-125 (FD07)



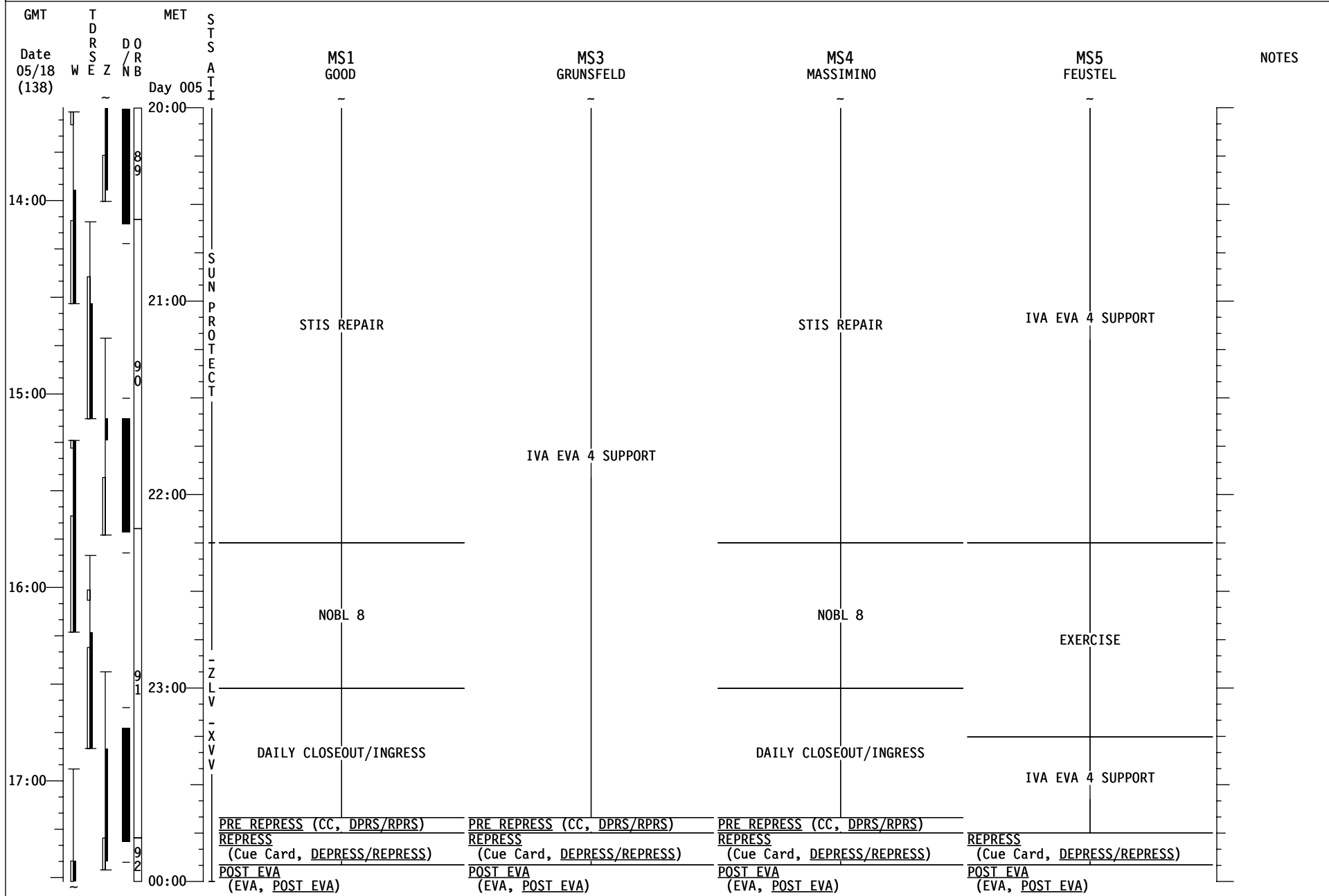
STS-125 (FD07)

GMT	T D R S E Z	MET	S T S A T I	MS1 GOOD	MS3 GRUNSFELD	MS4 MASSIMINO	MS5 FEUSTEL	NOTES
Date 05/18 (138)	W E Z	Day 005	Day 005					
16:00			Z L V	EVA PREP (EVA, EVA PREP)	EVA PREP (EVA, EVA PREP)	EVA PREP (EVA, EVA PREP)	EVA PREP (EVA, EVA PREP)	
				EMU PURGE (EVA, EVA PREP)	EMU PURGE (EVA, EVA PREP)	EMU PURGE (EVA, EVA PREP)	EMU PURGE (EVA, EVA PREP)	
10:00				EMU PREBREATHE (EVA, EVA PREP)	EMU PREBREATHE (EVA, EVA PREP)	EMU PREBREATHE (EVA, EVA PREP)	EMU PREBREATHE (EVA, EVA PREP)	
17:00			X V	DEPRESS (Cue Card, DEPRESS/REPRESS)	DEPRESS (Cue Card, DEPRESS/REPRESS)	DEPRESS (Cue Card, DEPRESS/REPRESS)	DEPRESS (Cue Card, DEPRESS/REPRESS)	
				POST DEPRESS (CC, DPRS/RPRS)	POST DEPRESS (CC, DPRS/RPRS)	POST DEPRESS (CC, DPRS/RPRS)		
11:00				EGRESS/DAILY SETUP		EGRESS/DAILY SETUP		
					EXERCISE			
18:00								
12:00								
			S U N P R O T E C T	STIS REPAIR		STIS REPAIR	IVA EVA 4 SUPPORT	
19:00					IVA EVA 4 SUPPORT			
13:00								
20:00								

STS-125 (FD07)

GMT	TDRS W E Z	MET DO R N B	S T S A T I	CDR ALTMAN	PLT JOHNSON	MS2 McARTHUR	HST CMD	NOTES
Date 05/18 (138)		Day 005						
14:00					P/TV06 HST EVA (OPS) (P/TV, SCENES) EVA 4 - Items 1,11,12	MNVR (TRK) BIAS +ZVV (SR Protect) TG=2 BV=5 P=140 Y=12 OM=13 A10/AUTO/VERN (5/20:03) Init TRK	POWER DOWN STIS	
15:00			SUN PROTECT			MNVR (INRTL) (SS Protect) R=265 P=330 Y=22 A10/AUTO/VERN (5/21:10) Init MNVR		
16:00				NOBL 8 (PDRS, EVA 4)		MNVR (TRK) BIAS +ZVV (SR Protect) TG=2 BV=5 P=140 Y=12 OM=13 A10/AUTO/VERN (5/21:40) Init TRK	STIS ALIVENESS TEST	
17:00			ZLV		P/TV05 HST SURVEY (OPS) (P/TV, SCENES) +V2 Survey - Items 10 & 11			
			XVV			EXERCISE	STIS INSTRUMENT FUNCTIONAL TEST AND SAFE STIS	
				EGRESS AT AIRLOCK (PDRS, EVA CLOSEOUT)	P/TV06 HST EVA (OPS) (P/TV, SCENES) EVA 4 - Items 1,11,12			
				RMS EXTENDED PARK (PDRS, EXTENDED PARK)	P/TV03 FSS OPS (SETUP & OPS) (P/TV, SCENES) Rotate - Item 2			
				ROTATE HST (+V2 to +V3 POSN) (PL OPS, IN-BAY OPERATIONS)		ROTATE HST (+V2 to +V3 POSN) (PL OPS, IN-BAY OPERATIONS)		
00:00								UPLINK β21 + Mask Boxes 1,2

STS-125 (FD07)



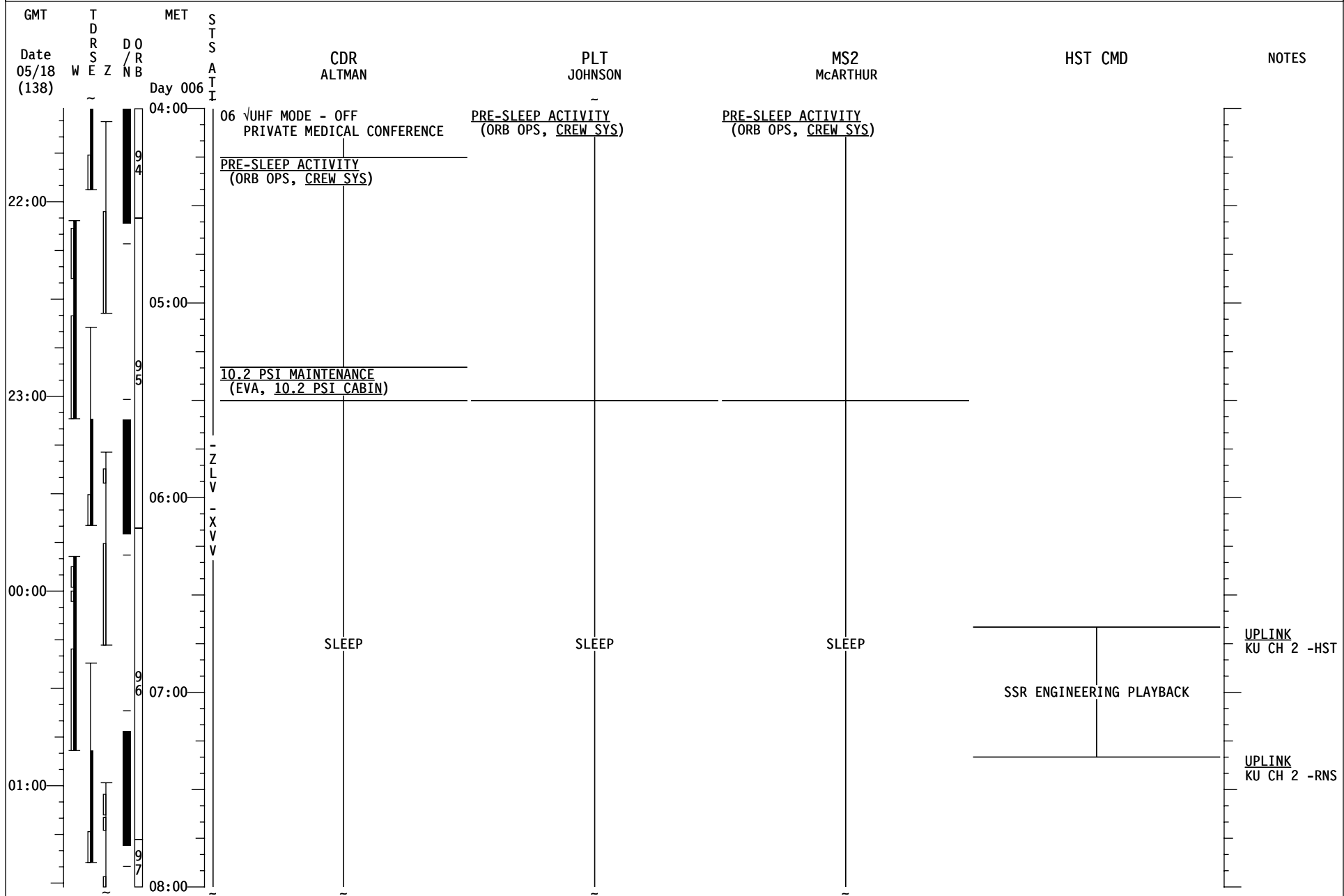
STS-125 (FD07)

GMT	TDRS W E Z	MET D O R N B	S T S A T T	CDR ALTMAN	PLT JOHNSON	MS2 McARTHUR	HST CMD	NOTES
Date 05/18 (138)			Day 006					
18:00				MNVR (TRK) -ZLV -YVV (Simo Dump) TG=2 BV=3 OM=270 A10/AUTO/VERN Init TRK		SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Initiate Supply/Waste Dump		
				10.2 PSI MAINTENANCE (EVA, 10.2 PSI CABIN)	EXERCISE		RESET PSEA CAPTURE AXIS TO +V3	UPLINK PDI FDA -INH KU CH 2 -HST
				G2 SET CONTRACTION (ORB OPS, DPS) Configure Single G2, (1111)			DUMP STIS F/T SCIENCE DATA	
19:00				IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)	WCS COMPACTOR OPS (DUAL-VANE) (Cue Card)			
					P/TV05 HST SURVEY (OPS) (P/TV, SCENES) +V3 Survey - Items 4 & 6			
20:00				MNVR (TRK) -ZLV -XVV TG=2 BV=3 OM=0 B11/AUTO/VERN (Dump cplmt) Init	ICBC3D STATUS REPORT	SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Terminate Supply Dump		
				EVA 5 PROCEDURE REVIEW Ref. EVA 5 BRIEFING CARD (EVA, TIMELINES)	HD DIGITAL VIA CC (ACTIVATION) (Cue Card, DIGITAL PLAYBACK)			UPLINK KU CH 3 -DVT
					EVA 5 PROCEDURE REVIEW Ref. EVA 5 BRIEFING CARD (EVA, TIMELINES)	EVA 5 PROCEDURE REVIEW Ref. EVA 5 BRIEFING CARD (EVA, TIMELINES)		
21:00				PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
					MIDDECK EMU BATTERY RECHARGE (Init) (EVA, EMU MAINT/RECHARGE) A		A Ref. STS-125 EVA CONSUMABLES Cue Card	
04:00				PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		PDIP 1 KU BAND RATE - OFF		UPLINK KU CH 2 -RNS

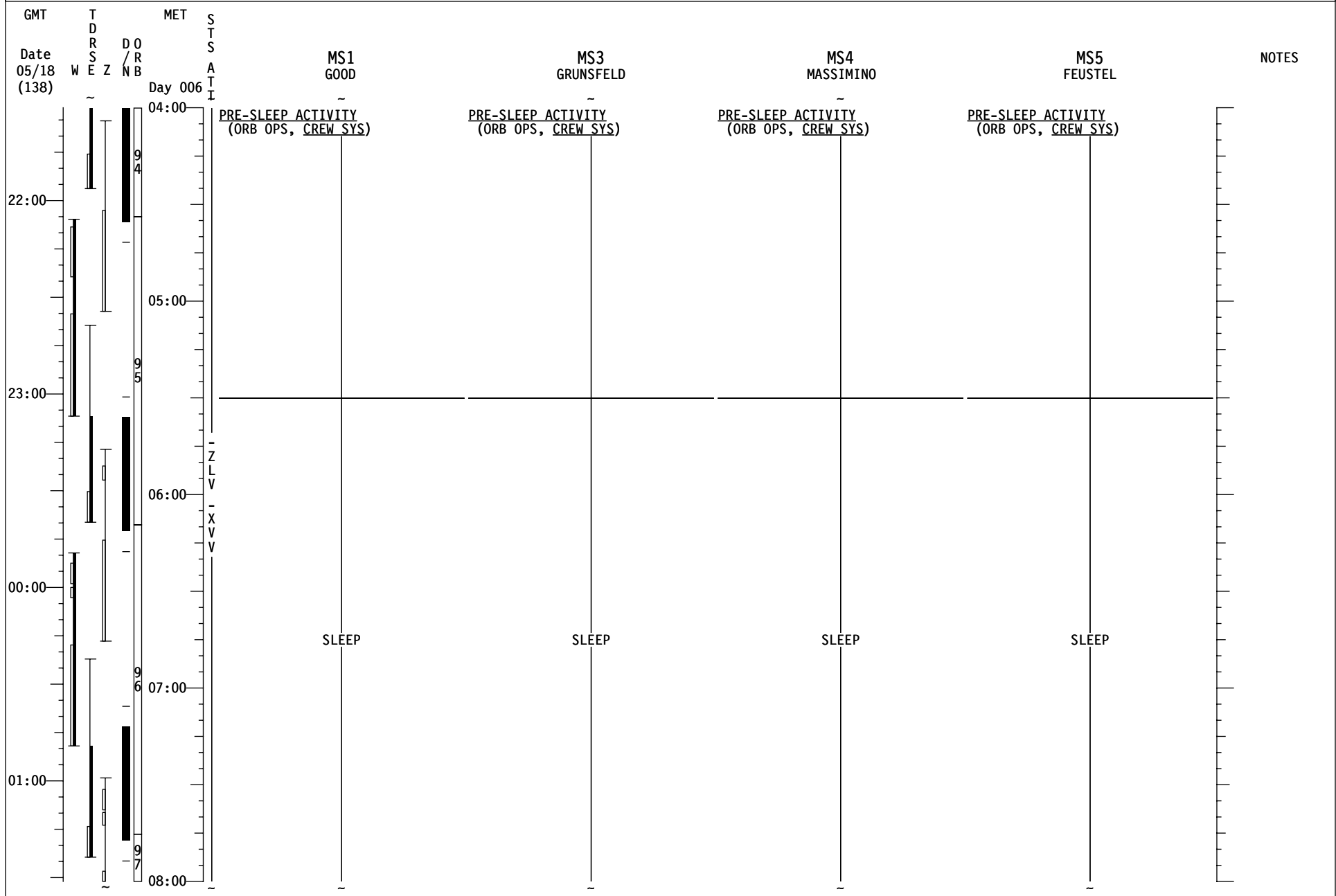
STS-125 (FD07)

GMT	T D R S W R E Z	MET D O R N B	S T S A T T	MS1 GOOD	MS3 GRUNSFELD	MS4 MASSIMINO	MS5 FEUSTEL	NOTES
Date 05/18 (138)		Day 006						
18:00				POST EVA (EVA, POST EVA)	POST EVA (EVA, POST EVA)	POST EVA (EVA, POST EVA)	POST EVA (EVA, POST EVA)	
					B Ref. STS-125 EVA CONSUMABLES Cue Card			
					MIDDECK EMU BATTERY RECHARGE (TERM) (EVA, EMU MAINT/RECHARGE)			
19:00				+ EMU BATTERY INSTALLATION & LiOH CHANGEOUT (EVA, EMU MAINT/RECHARGE) B	EMU BATTERY INSTALLATION & LiOH CHANGEOUT (EVA, EMU MAINT/RECHARGE) B	EVA 5 TOOL CONFIG (EVA, TIMELINES) Ref. STS-125 EVA CONSUMABLES Cue Card	EVA 5 TOOL CONFIG (EVA, TIMELINES) Ref. STS-125 EVA CONSUMABLES Cue Card	
				EMU SWAP (EVA, AIRLOCK CONFIG)	EMU SWAP (EVA, AIRLOCK CONFIG)			
20:00				REBA BATTERY RECHARGE (INIT) B (EVA, EMU MAINT/RECHARGE)	REBA BATTERY RECHARGE (INIT) B (EVA, EMU MAINT/RECHARGE)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
				PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	D2Xs EVA CAMR (P/TV, REF PROC)	EVA 5 PROCEDURE REVIEW Ref. EVA 5 BRIEFING CARD (EVA, TIMELINES)	EVA 5 PROCEDURE REVIEW Ref. EVA 5 BRIEFING CARD (EVA, TIMELINES)	
				EVA 5 PROCEDURE REVIEW Ref. EVA 5 BRIEFING CARD (EVA, TIMELINES)	D2Xs EVA-CAMR ONLY DISASSEMBLY Perform Between EVAs			
					EVA 5 PROCEDURE REVIEW Ref. EVA 5 BRIEFING CARD (EVA, TIMELINES)			
21:00				PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
						C After Crew Choice D/L complete: RECONFIGURE OCA D/L RATE (PL Max) (ORB OPS, PGSC) Part C, omit Step 4 L10 MUX/VTR/CC PWR - OFF (LED OFF)		
04:00							RECONFIGURE OCA D/L RATE C	

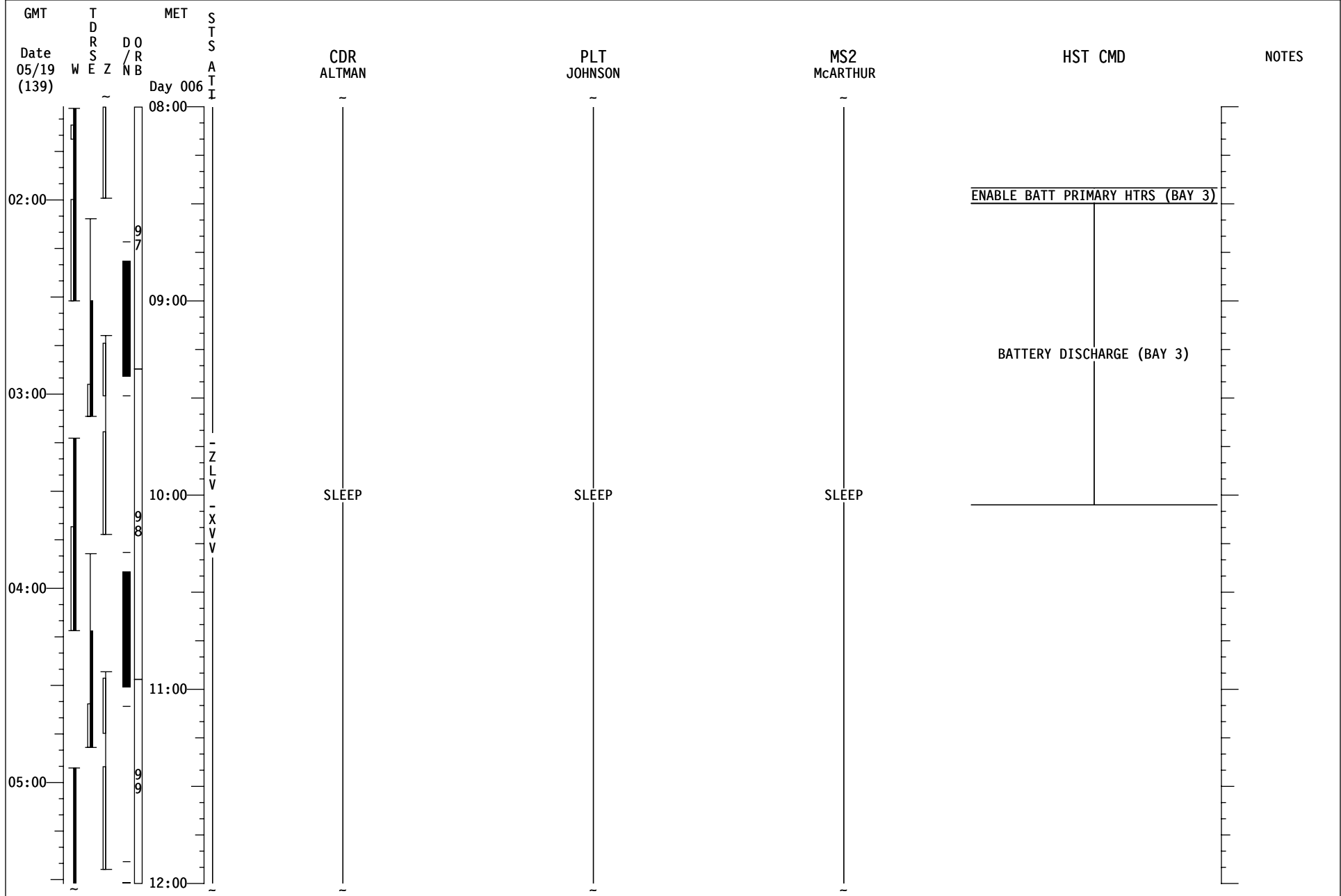
STS-125 (FD07)



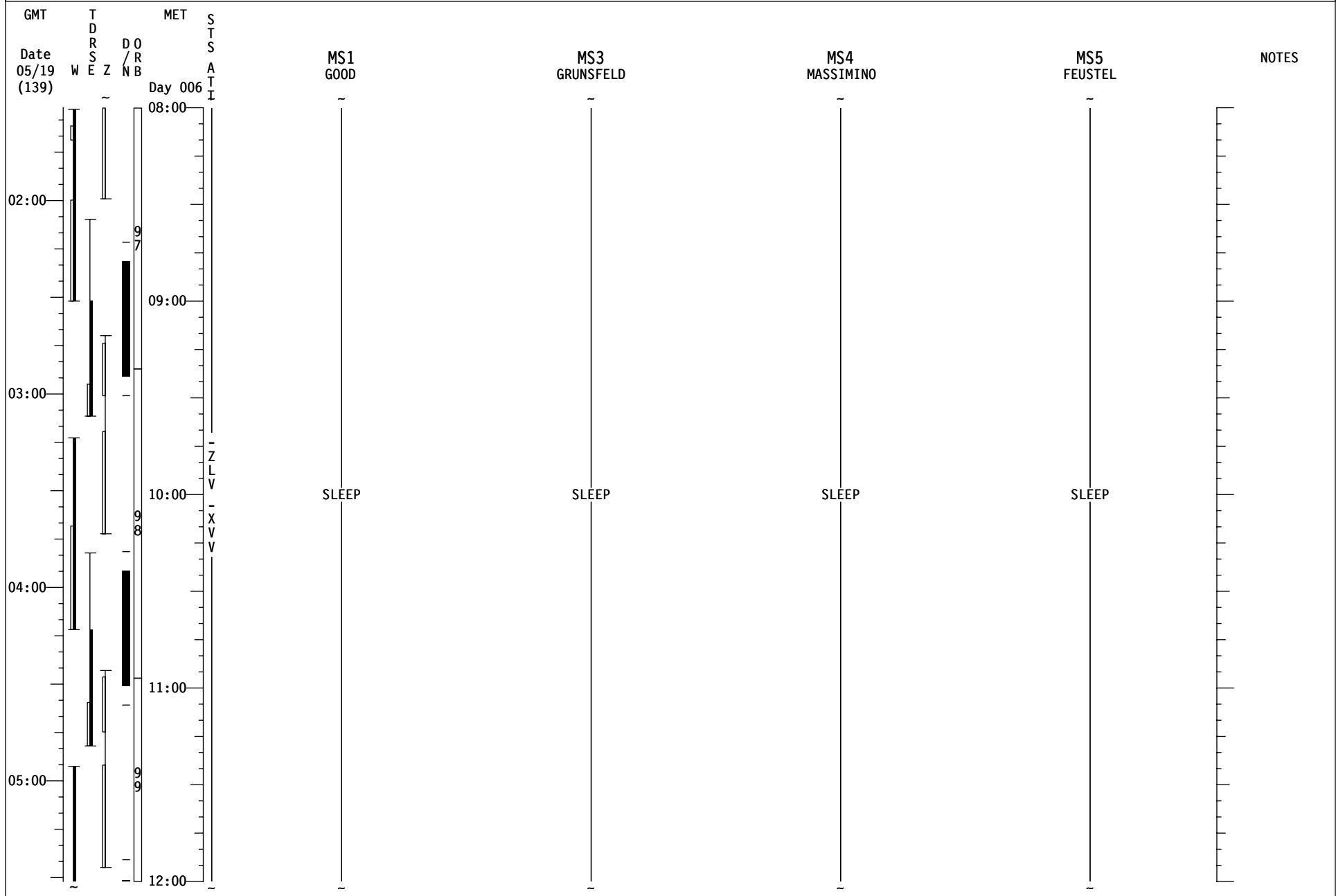
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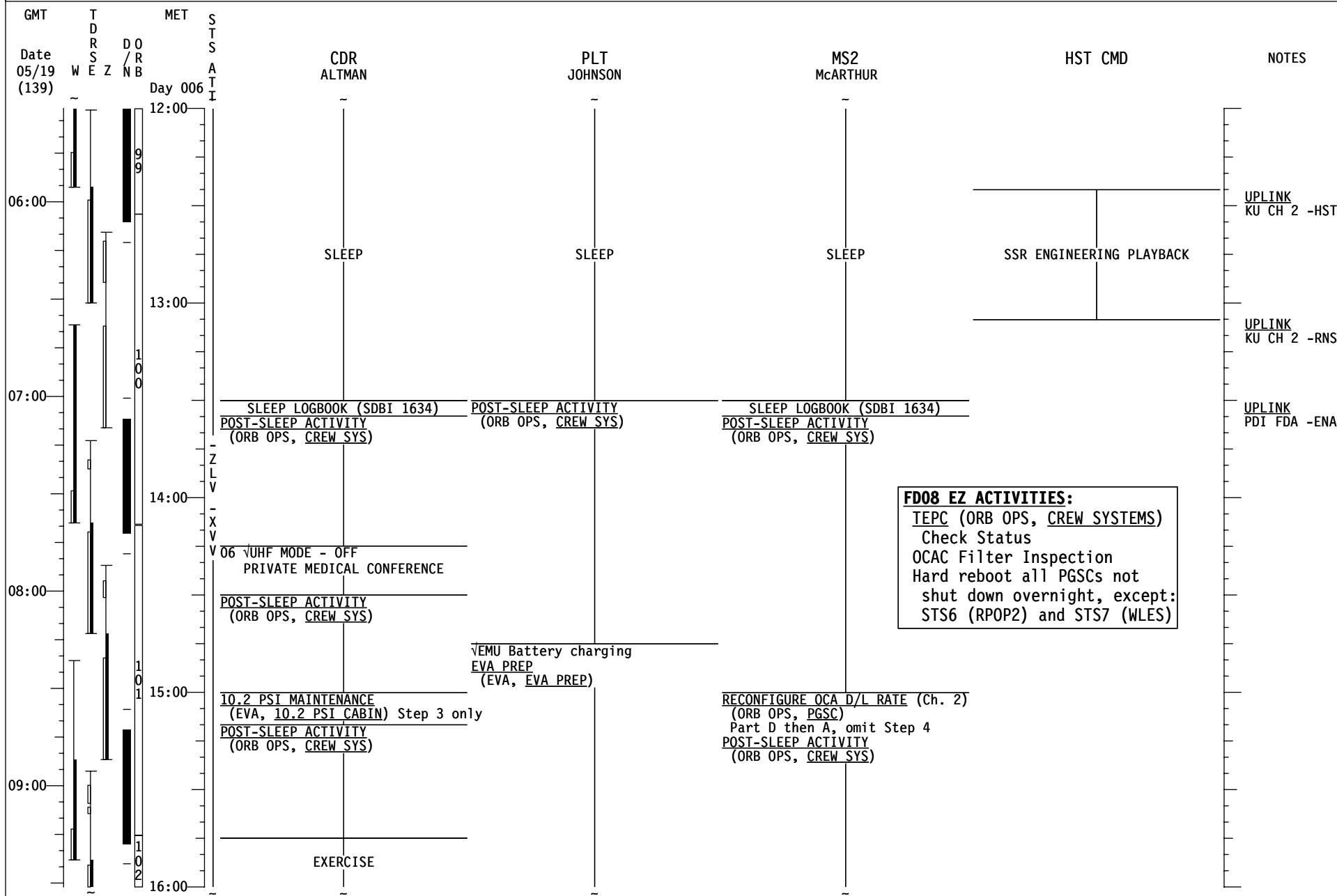
STS-125 (FD07)



STS-125 (FD07)

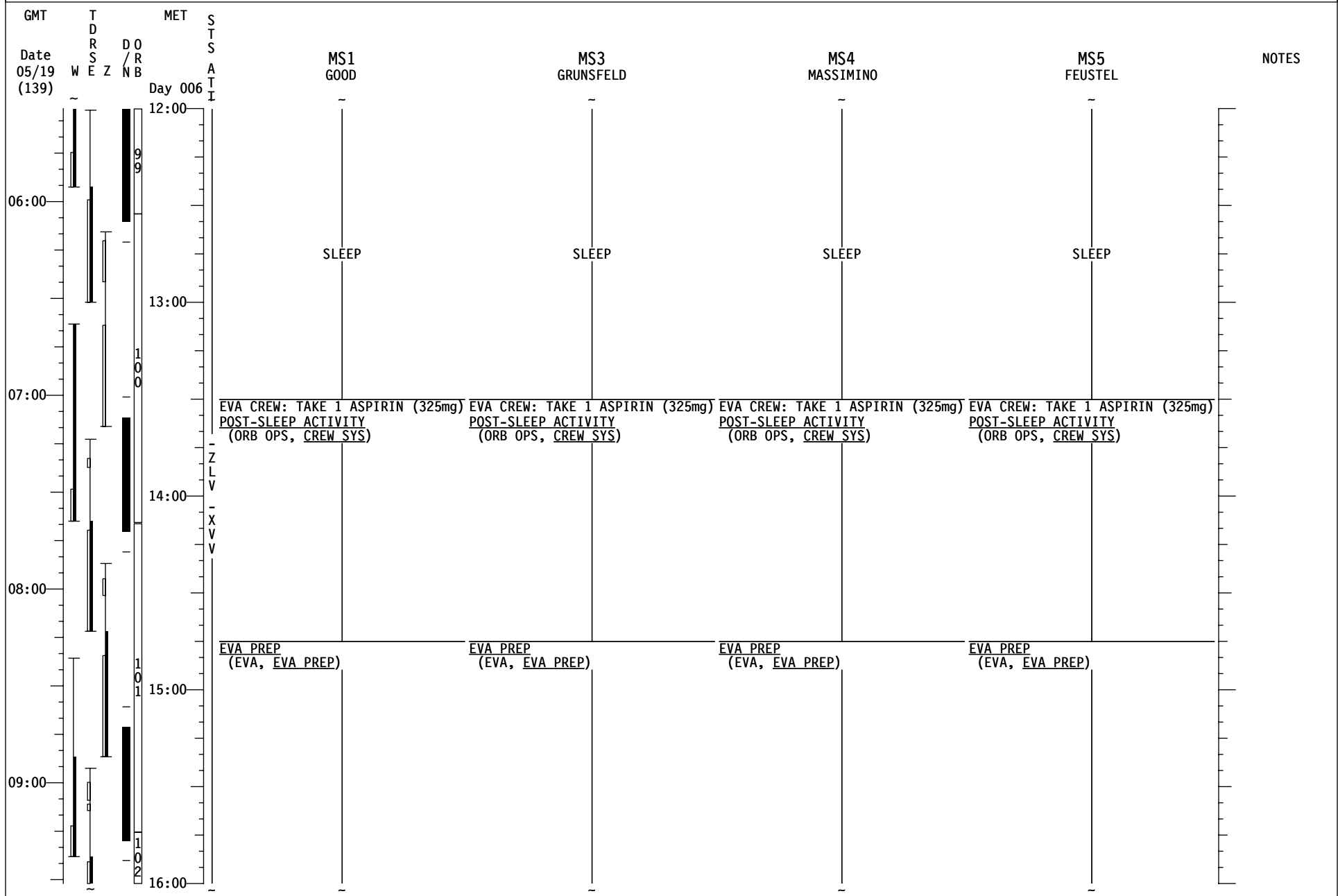


STS-125 (FD08)

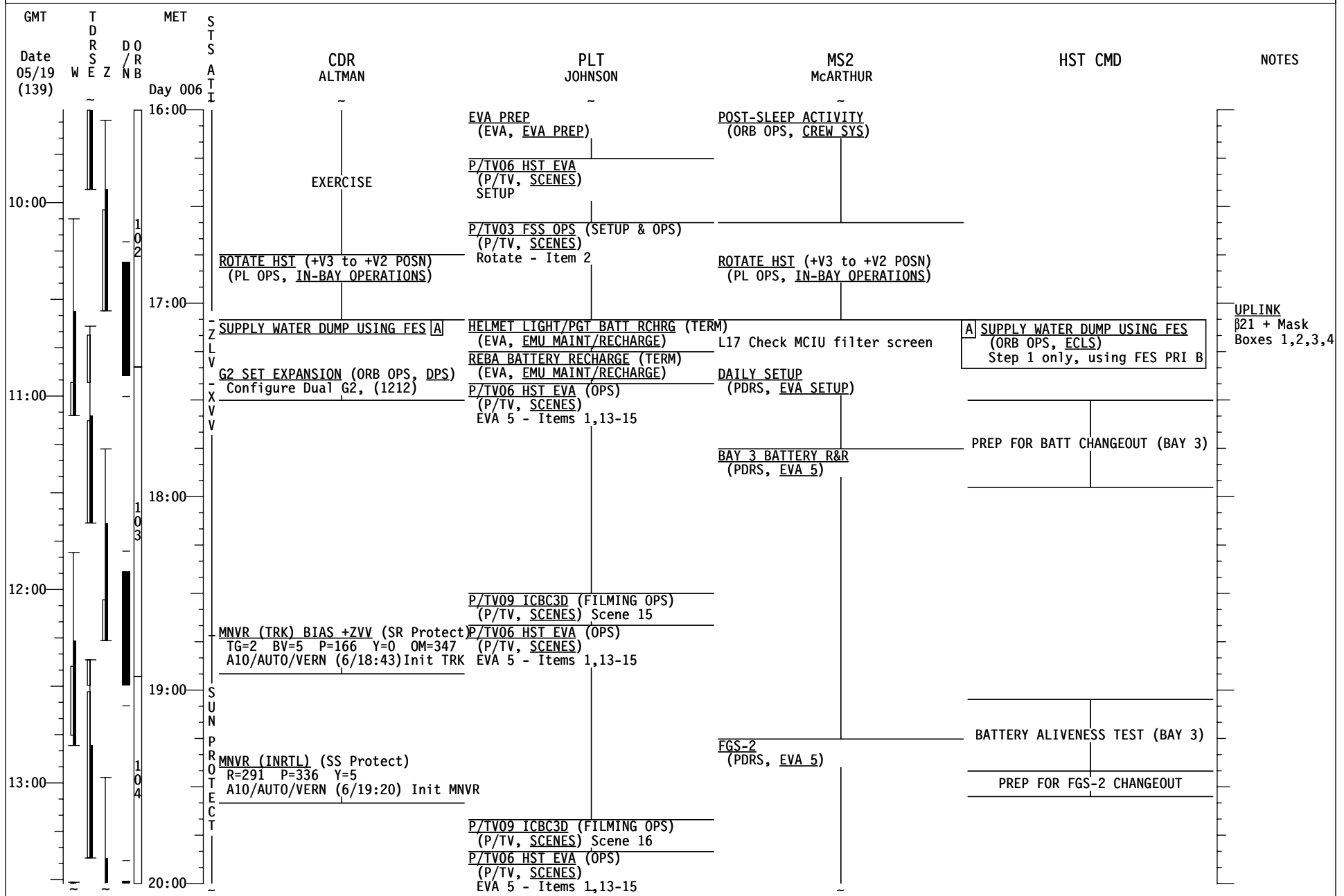


FD08 EZ ACTIVITIES:
 TEPC (ORB OPS, CREW SYSTEMS)
 Check Status
 OCAC Filter Inspection
 Hard reboot all PGSCs not shut down overnight, except:
 STS6 (RPOP2) and STS7 (WLES)

STS-125 (FD08)



STS-125 (FD08)



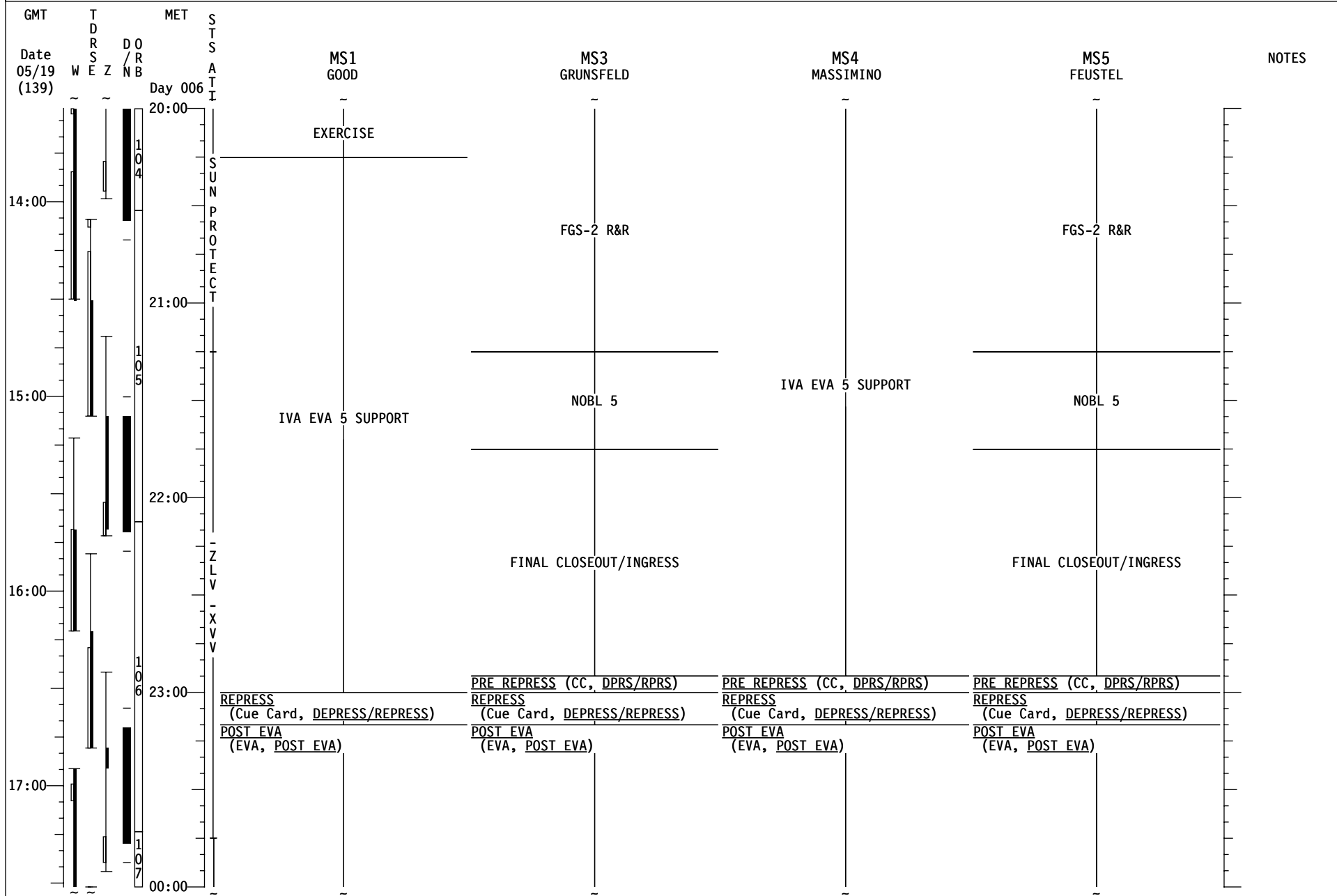
STS-125 (FD08)

GMT	T D R S E Z	MET	S T S A T I	MS1 GOOD	MS3 GRUNSFELD	MS4 MASSIMINO	MS5 FEUSTEL	NOTES
Date 05/19 (139)	W E Z	Day 006						
16:00				EVA PREP (EVA, EVA PREP)	EVA PREP (EVA, EVA PREP)	EVA PREP (EVA, EVA PREP)	EVA PREP (EVA, EVA PREP)	
				EMU PURGE (EVA, EVA PREP)	EMU PURGE (EVA, EVA PREP)	EMU PURGE (EVA, EVA PREP)	EMU PURGE (EVA, EVA PREP)	
10:00				EMU PREBREATHE (EVA, EVA PREP)	EMU PREBREATHE (EVA, EVA PREP)	EMU PREBREATHE (EVA, EVA PREP)	EMU PREBREATHE (EVA, EVA PREP)	
17:00				DEPRESS (Cue Card, DEPRESS/REPRESS)	DEPRESS (Cue Card, DEPRESS/REPRESS)	DEPRESS (Cue Card, DEPRESS/REPRESS)	DEPRESS (Cue Card, DEPRESS/REPRESS)	
					POST DEPRESS (CC, DPRS/RPRS)	POST DEPRESS (CC, DPRS/RPRS)	POST DEPRESS (CC, DPRS/RPRS)	
11:00					EGRESS/DAILY SETUP		EGRESS/DAILY SETUP	
						IVA EVA 5 SUPPORT		
18:00				IVA EVA 5 SUPPORT				
12:00					BAY 3 BATTERY R&R		BAY 3 BATTERY R&R	
						EXERCISE		
19:00								
13:00				EXERCISE	FGS-2 R&R	IVA EVA 5 SUPPORT	FGS-2 R&R	
20:00								

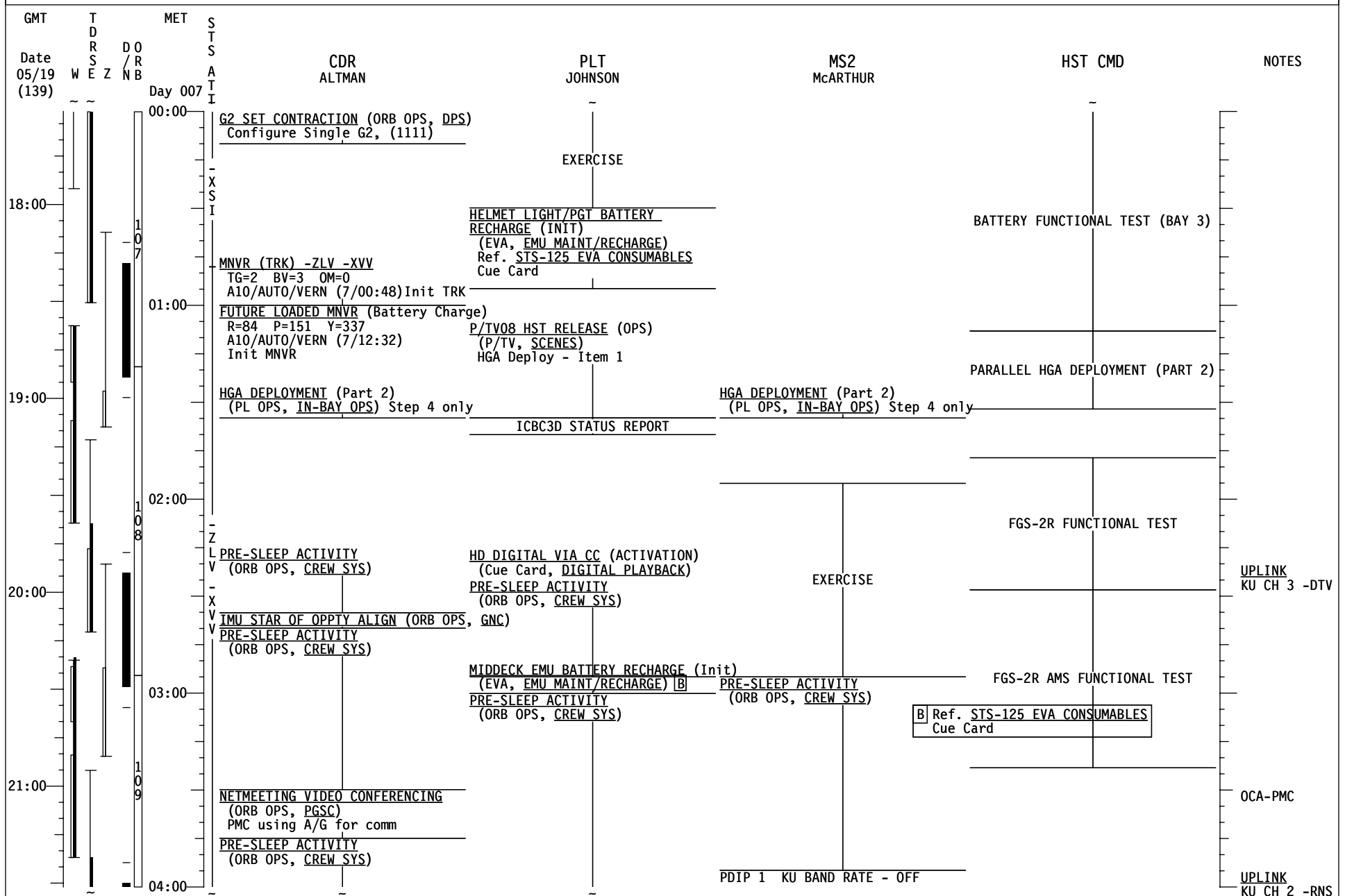
STS-125 (FD08)

GMT	TDRS W E Z	MET Day 006	S T S A T I	CDR ALTMAN	PLT JOHNSON	MS2 McARTHUR	HST CMD	NOTES
05/19 (139)								
14:00			SUN	MNVR (TRK) BIAS +ZVV (SR Protect) TG=2 BV=5 P=166 Y=0 OM=347 (P/TV, SCENES) A10/AUTO/VERN (6/20:01) Init TRK EVA 5 - Items 1,13-15		FGS-2 (PDRS, EVA 5)		
15:00			PROTECT				FGS-2R ALIVENESS TEST	
			T	MNVR (INRTL) (SS Protect) R=291 P=336 Y=5 A10/AUTO/VERN (6/20:56) Init MNVR			RE-ENABLE OTA HTR GROUPS (PART 1)	
16:00			Z	MNVR (TRK) -ZLV -XVV TG=2 BV=3 OM=0 A10/AUTO/VERN (FGS-2 cmlpt) Init TRK	P/TV09 ICBC3D (FILMING OPS) (P/TV, SCENES) Scene 17	NOBL 5 (PDRS, EVA 5)	FGS-2R ALIVENESS TEST	
			L		P/TV06 HST EVA (OPS) (P/TV, SCENES) EVA 5 - Items 1,13-15		RE-ENABLE OTA HTR GROUPS (PART 2) UPLINK NEW BATT FSW PARAMETERS	
						MFR RELEASE (PDRS, EVA CLOSEOUT)		
17:00							RE-ENABLE OTA HTR GROUPS (PART 3)	
				V ACT HST ESSENTIAL BUS INTRNL PWR (PL OPS, IN-BAY OPERATIONS)	P/TV08 HST RELEASE (SETUP) (P/TV, SCENES)		INTRNL ESSENTIAL POWER ACT	
				X SPLY H2O DMP USE FES (ORB OPS, ECLS) V Step 2 only, FES PRI B req'd		RMS EXTENDED PARK (PDRS, EXTENDED PARK)		
				V HGA DEPLOYMENT (Part 1) (PL OPS, IN-BAY OPERATIONS) Steps 1-3	P/TV08 HST RELEASE (SETUP & OPS) (P/TV, SCENES) HGA Deploy - Item 1	HGA DEPLOYMENT (Part 1) (PL OPS, IN-BAY OPERATIONS) Steps 1-3	PARALLEL HGA DEPLOYMENT (PART 1)	
				ROTATE HST (-V2 to -V3 POSN) (PL OPS, IN-BAY OPERATIONS)	P/TV03 FSS OPS (SETUP & OPS) (P/TV, SCENES) Rotate - Item 2	ROTATE HST (-V2 to -V3 POSN) (PL OPS, IN-BAY OPERATIONS)		UPLINK β21 + Mask Boxes 1,2
				SINGLE (DUAL) SA SLEW (PL OPS, IN-BAY OPERATIONS) 0 to 90 degrees Dual Array Slew	10.2 PSI MAINTENANCE (EVA, 10.2 PSI CABIN)		SLEW SOLAR ARRAYS TO 90 DEGREES	
				MNVR (TRK) BIAS -XSI (Battery Charge) TG=4 BV=5 P=151 Y=0 OM=0 A10/AUTO/VERN (6/23:45) Init TRK	EXERCISE		BATTERY FUNCTIONAL TEST (BAY 3)	
00:00								

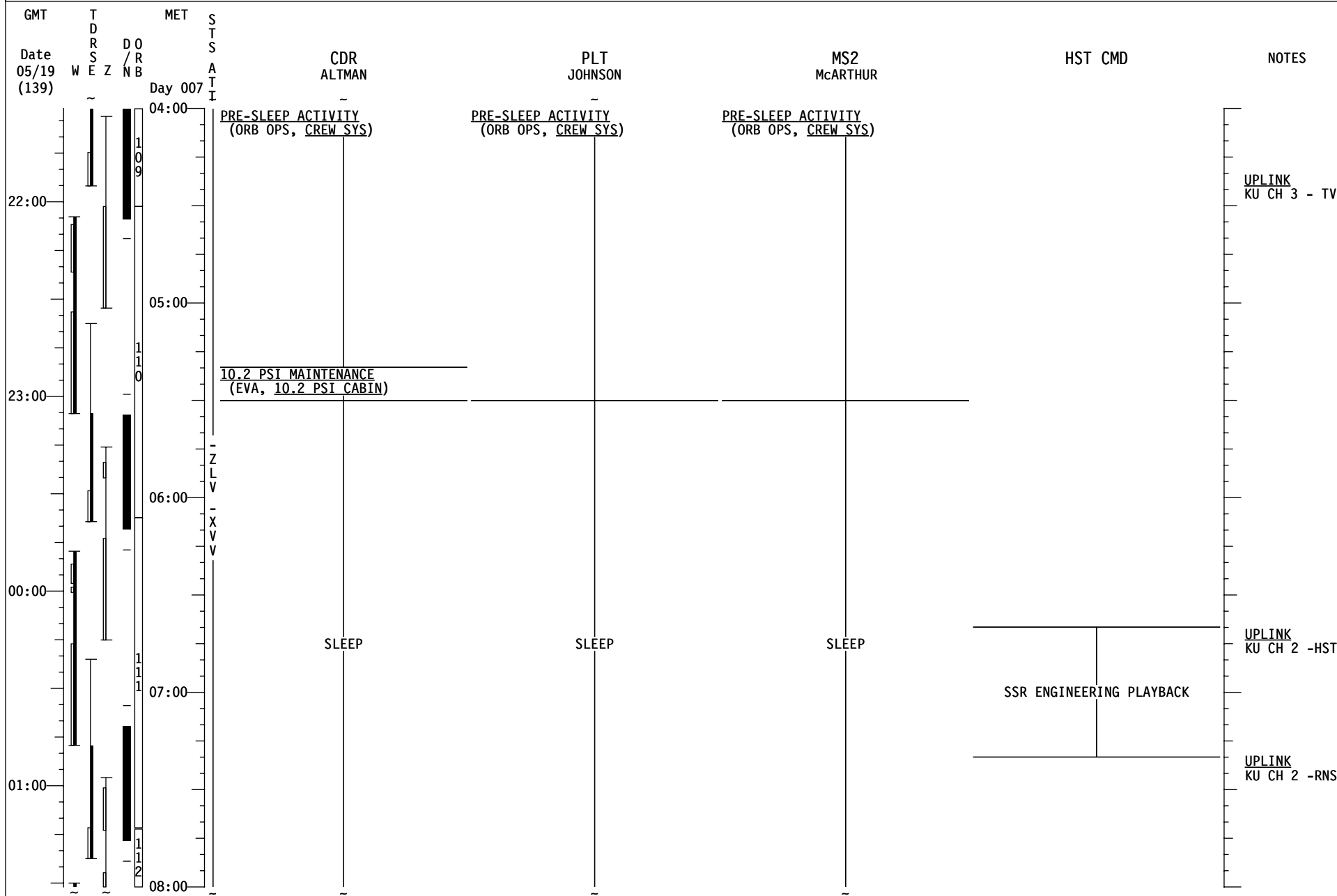
STS-125 (FD08)



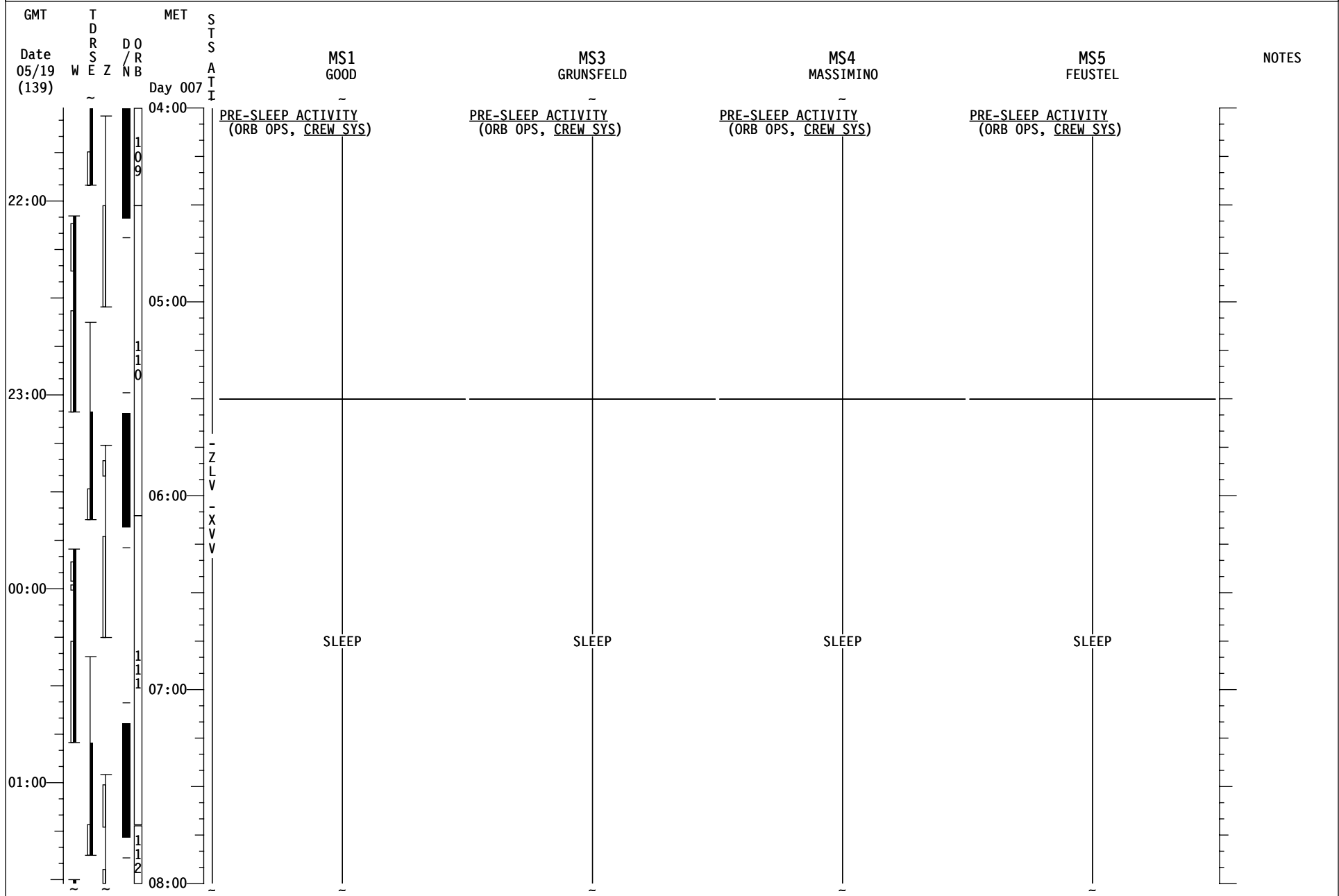
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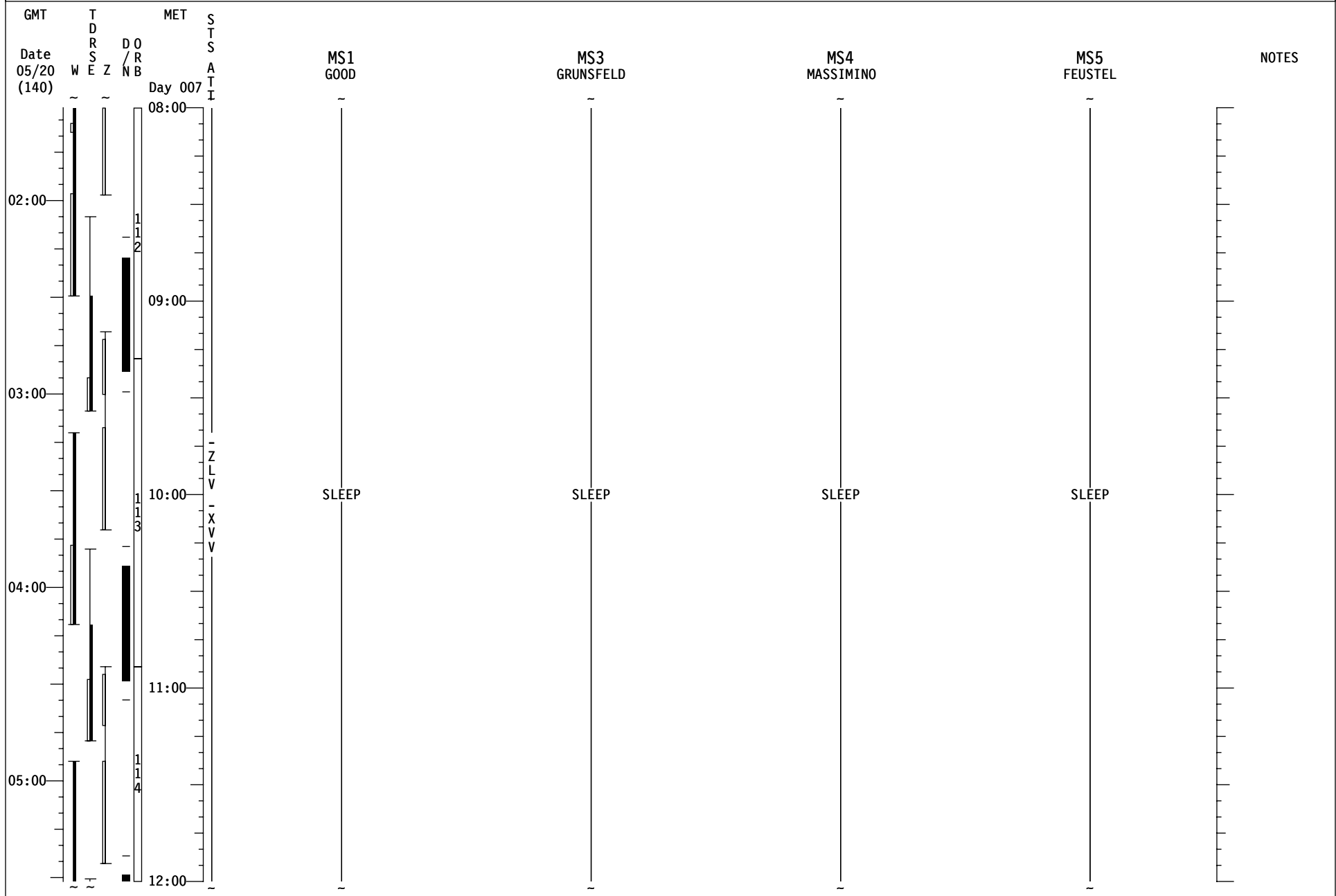
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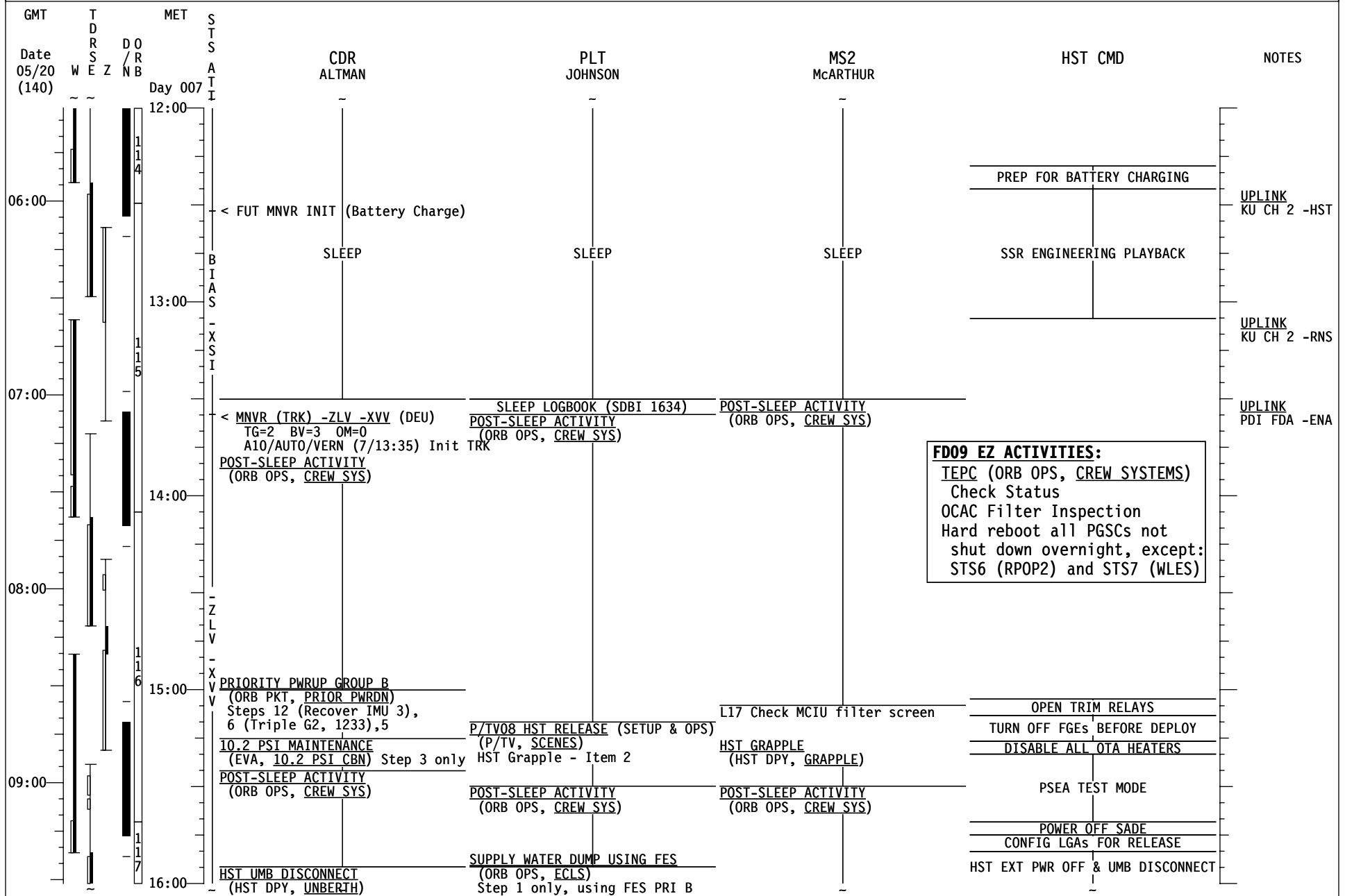
STS-125 (FD08)



STS-125 (FD08)

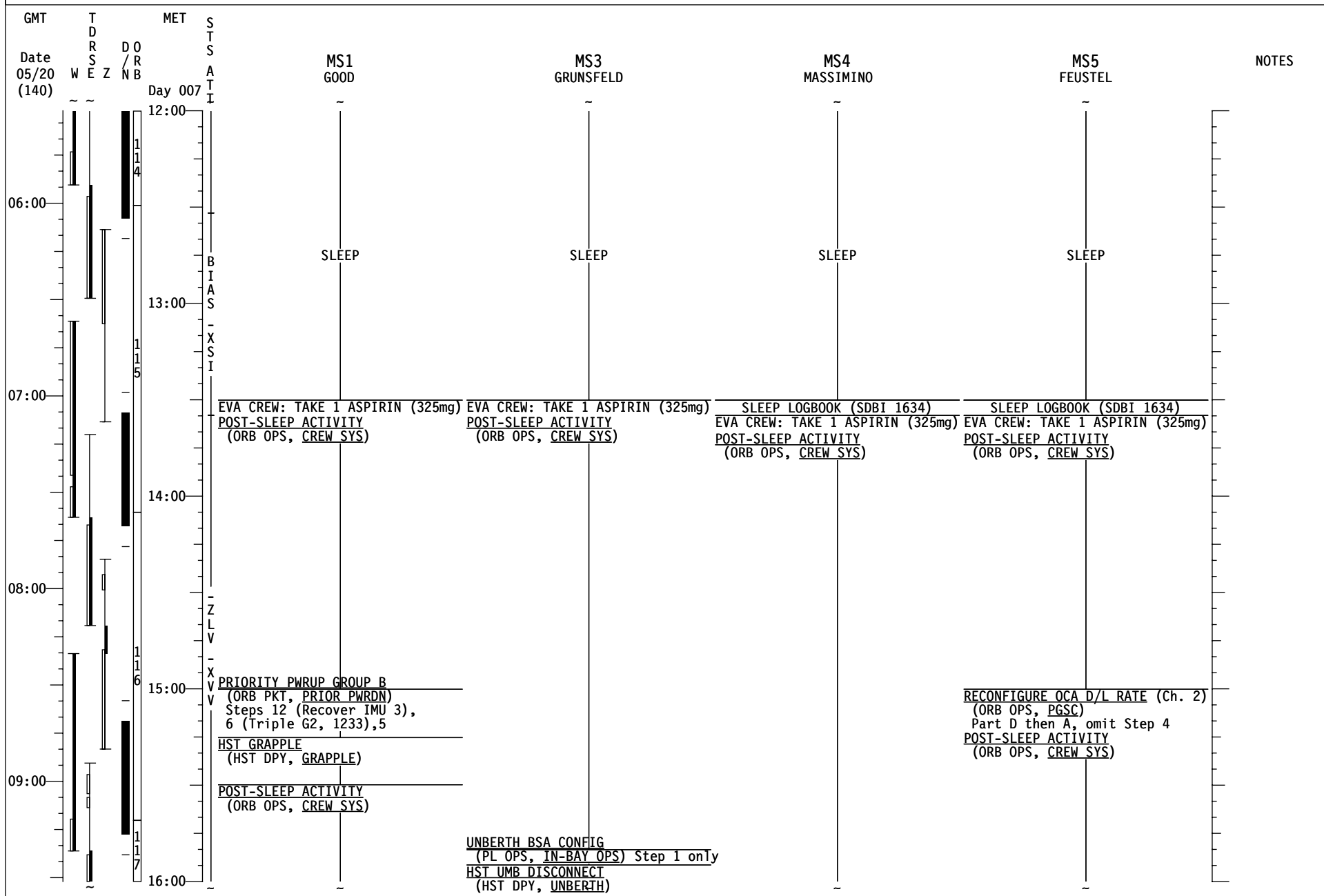


STS-125 (FD09)



FD09 EZ ACTIVITIES:
 TEPC (ORB OPS, CREW SYSTEMS)
 Check Status
 OCAC Filter Inspection
 Hard reboot all PGSCs not
 shut down overnight, except:
 STS6 (RPOP2) and STS7 (WLES)

STS-125 (FD09)



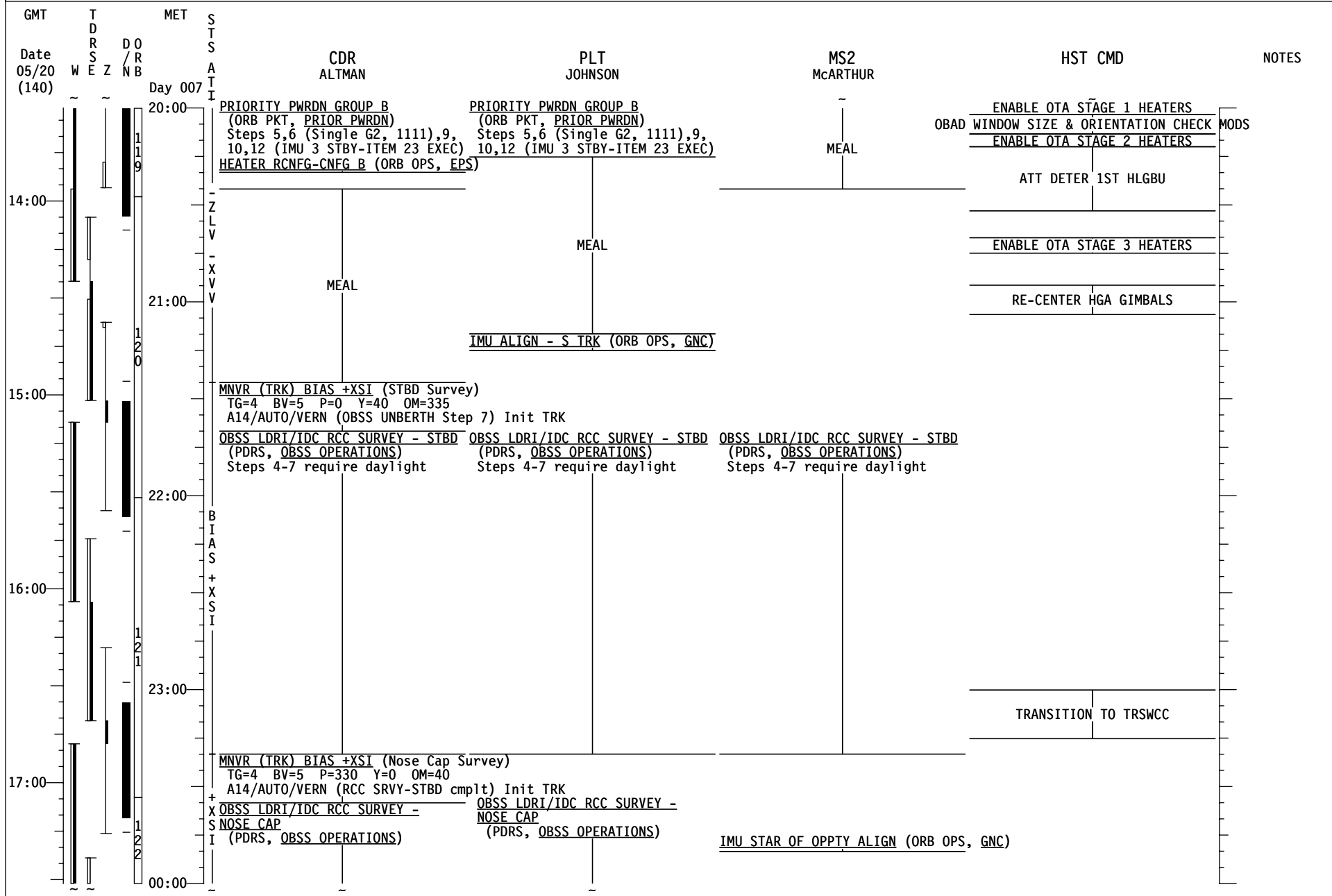
STS-125 (FD09)

GMT	TDRSS W E Z	MET Day 007	STS A T I CDR ALTMAN	PLT JOHNSON	MS2 McARTHUR	HST CMD	NOTES
16:00			HST UMB DISCONNECT (HST DPY, UNBERTH)	√EMU Battery charging P/TV09 ICBC3D (FILMING OPS) (P/TV, SCENES) Scene 18	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) HST UNBERTH (HST DPY, UNBERTH)	HST EXT PWR OFF & UMB DISCONNECT	UPLINK PDI FDA -INH β21 + Mask Boxes 1,2,5
			HST UNBERTH (HST DPY, UNBERTH)	P/TV08 HST RELEASE (OPS) (P/TV, SCENES) FSS Berthing Latches, and HST Unberth - Item 2			
17:00			HST RELEASE PREP (HST DPY, RELEASE OPS)		HST RELEASE PREP (HST DPY, RELEASE OPS)	POWER ON MA TX 2 FOR TDRSS COM VERIFY STFS PRE-RELEASE CONFIG	UPDATE HST RELEASE PAD
11:00						OPEN APERTURE DOOR	
						PREP FOR RMS RELEASE OF HST	
18:00			HST RELEASE (RMS & HST Systems) (HST DPY, RELEASE OPS)	HST RELEASE (Orbiter) (HST DPY, RELEASE OPS)	HST RELEASE (RMS & HST Systems) (HST DPY, RELEASE OPS)	PSEA CONFIG FOR RELEASE & HST RELEASE	
						TRANSITION TO PRE-NORMAL MODE	
12:00			NOMINAL H2O CONFIG (ORB OPS, ECLS) On MCC Go: LI FLASH EVAP CNTLR PRI A - ON FSS STOW WITH BSP INSTALLED (PL OPS, IN-BAY OPERATIONS)	P/TV03 FSS OPS (P/TV, SCENES) SETUP P/TV03 FSS OPS (OPS) (P/TV, SCENES) FSS Stow - Item 5		RECONFIGURE HST LGA DIRECT TDRSS	
						TRANSITION TO NORM MODE & MNVR TO BEA ATT CONFIG MCU & RETR/DEPL HTRS FOR NORMAL OPS	
19:00			A RNDZ NAV DISABLE NET 7/19:00 GNC 201 UNIV PTG CANCEL - ITEM 21 EXEC GNC 33 REL NAV RNDZ NAV ENA - ITEM 1 EXEC (no*)		EXERCISE	ENABLE CS HV PROTECT FUNCTION	UPLINK β21 + Mask
						TURN ON FGEs AFTER DEPLOY	
13:00			RNDZ NAV DISABLE A ON-ORBIT OMS BURN (ORB OPS, OMS)	ON-ORBIT OMS BURN (ORB OPS, OMS)		FHST ATTITUDE DETERMINATION	
						ENABLE BATT SOC SAFEMODE TEST(S)	UPDATE ORBITAL MNVR PAD
			B MNVR (TRK) -ZLV -XVV TG=2 BV=3 OM=0 A1/AUTO/VERN Init TRK		MEAL	KF THRESHOLD FSW RESTORATION	
20:00			< OA TIG (8/19:50:23)			ENABLE OTA STAGE 1 HEATERS	
			MNVR (TRK) -ZLV -XVV B				

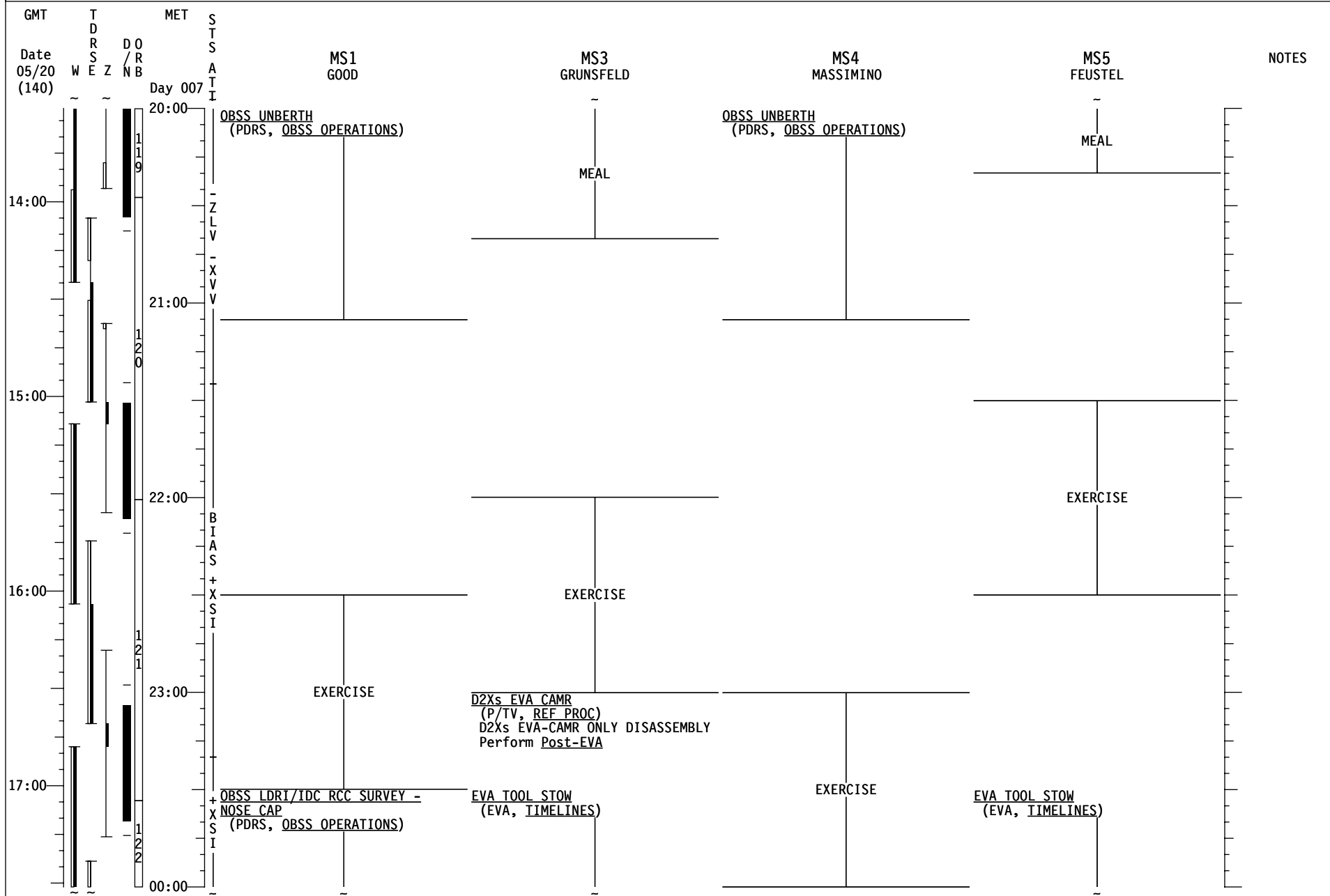
STS-125 (FD09)

GMT	T D R S W E Z	MET D O R N B	S T S A T I	MS1 GOOD	MS3 GRUNSFELD	MS4 MASSIMINO	MS5 FEUSTEL	NOTES
Date 05/20 (140)		Day 007						
16:00			Z L V	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	HST UMB DISCONNECT (HST DPY, UNBERTH) HST UNBERTH (HST DPY, UNBERTH)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) HELMET LIGHT/PGT BATT RCHRG(Term) (EVA, EMU MAINT/RECHARGE) REBA BATTERY RECHARGE (TERM) (EVA, EMU MAINT/RECHARGE)	
10:00			X V V	EVA PREP (EVA, EVA PREP) Hold at Step 35 of EMU DONNING		EVA PREP (EVA, EVA PREP) Hold at Step 35 of EMU DONNING	EVA PREP (EVA, EVA PREP) Hold at Step 35 of EMU DONNING	
17:00			H S T R L S		HST RELEASE PREP (HST DPY, RELEASE OPS)			UPDATE HST RELEASE PAD
11:00				P/TV08 HST RELEASE (OPS) (P/TV, SCENES) HST Release - Item 3	HST RELEASE (Orbiter) (HST DPY, RELEASE OPS)	HST RELEASE (RMS & HST Systems) (HST DPY, RELEASE OPS)	HST RELEASE (Orbiter) (HST DPY, RELEASE OPS)	
18:00								
12:00			S E P	POST EVA (EVA, POST EVA) Steps 29-31, 42-44, 61, 62, 64-70, 72, & 73	FSS STOW WITH BSP INSTALLED (PL OPS, IN-BAY OPERATIONS)	POST EVA (EVA, POST EVA) Steps 29-31, 42-44, 61, 62, 64-70, 72, & 73	POST EVA (EVA, POST EVA) Steps 29-31, 42-44, 61, 62, 64-70, 72, & 73	
19:00				SSV PWR - ON OUTRATE - 3			POST DEPLOY PGSC CONFIG Configure PGSCs per EVA/RMS Configuration PGSC Usage Chart	UPLINK TFL 192
13:00			O A	MEAL	UNBERTH BSA CONFIG (PL OPS, IN-BAY OPERATIONS) Steps 2-7	MEAL	WLES RNDZ/DEPLOY RECOVERY (ORB OPS, WLE SENSORS)	
20:00					MEAL		MEAL	

STS-125 (FD09)



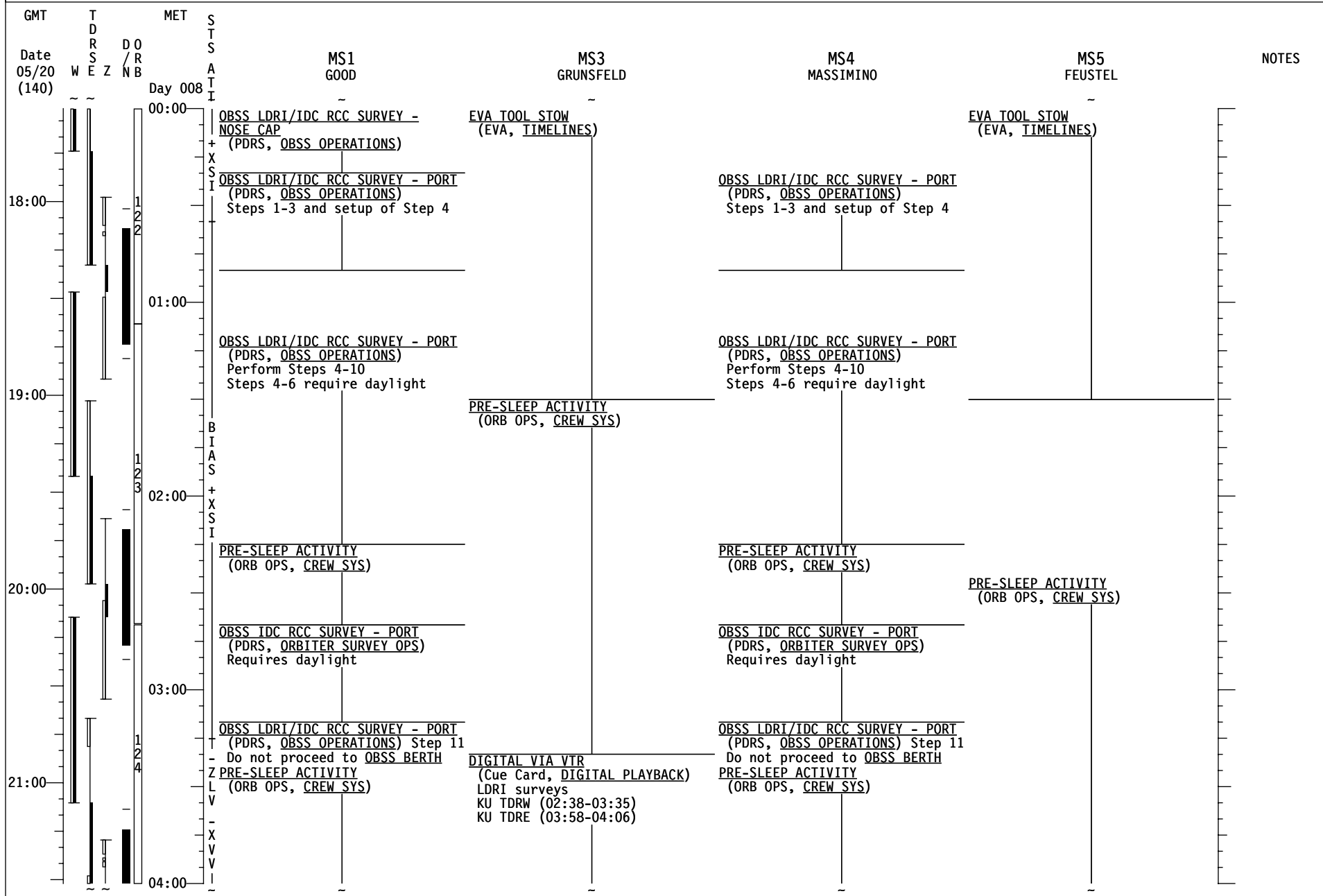
STS-125 (FD09)



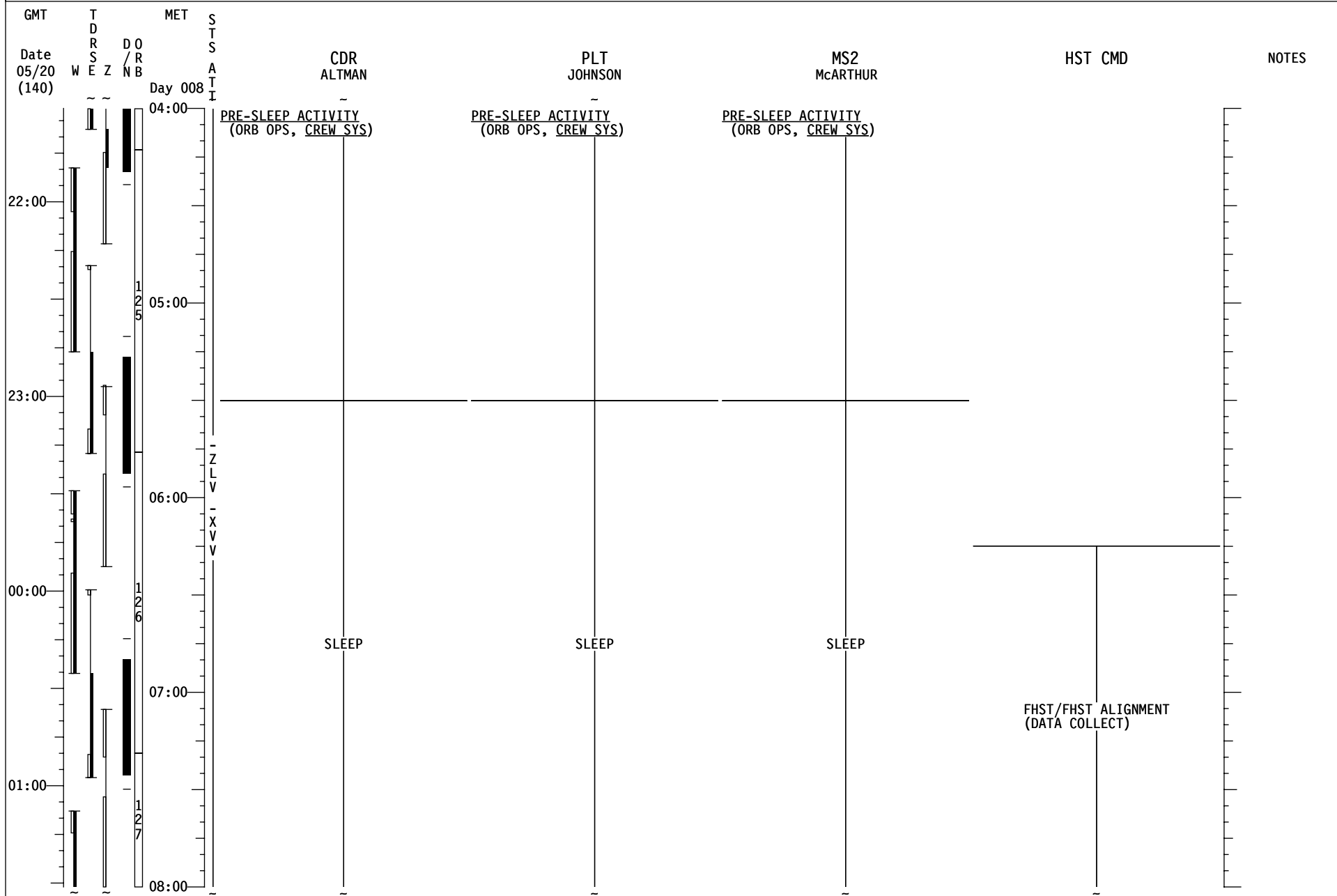
STS-125 (FD09)

GMT	TDRS WSEZ	MET DO RNB	S T S A T I	CDR ALTMAN	PLT JOHNSON	MS2 McARTHUR	HST CMD	NOTES
Date 05/20 (140)		Day 008						
18:00				OBSS LDRI/IDC RCC SURVEY - NOSE CAP (PDRS, OBSS OPERATIONS)	OBSS LDRI/IDC RCC SURVEY - NOSE CAP (PDRS, OBSS OPERATIONS)			
				CABIN REPRESS TO 14.7 PSI (EVA, 10.2 PSI CABIN)		OBSS LDRI/IDC RCC SURVEY - PORT (PDRS, OBSS OPERATIONS) Steps 1-3 MNVR (INRTL) BIAS +XSI (Port Survey) TG=4 BV=5 P=0 Y=323 OM=60 A14/AUTO/VERN (RCC SRVY-PORT Step 3) Init TRK		
				14.7 PSI CABIN CONFIG (EVA, 10.2 PSI CABIN)	EXERCISE			
19:00				EXERCISE		OBSS LDRI/IDC RCC SURVEY - PORT (PDRS, OBSS OPERATIONS) Perform Steps 4-10 Steps 4-6 require daylight	FIRST LGBU/HGBU	
					SUPPLY WATER DUMP USING FES (ORB OPS, ECLS) Step 2 only, FES PRI B req'd			
20:00				PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	MIDDECK EMU BATTERY RECHARGE TERM (EVA, EMU MAINT/RECHARGE) ICBC3D STATUS REPORT RCS REGULATOR RECONFIG (ORB OPS, RCS) PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	ATTITUDE DETERMINATION FOR SECOND ARU	
						OBSS IDC RCC SURVEY - PORT (PDRS, ORBITER SURVEY OPS) Requires daylight		
21:00				MNVR (TRK) -ZLV -XVV TG=2 BV=3 OM=0 A1/AUTO/VERN (RCC SRVY-PORT Step 11 cmlpt) Init TRK		OBSS LDRI/IDC RCC SURVEY - PORT (PDRS, OBSS OPERATIONS) Step 11 Do not proceed to OBSS BERTH	LOAD EPHEMERIS	
				06 VUHF MODE - OFF PRIVATE MEDICAL CONFERENCE		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	UPLINK 2ND ARU & ENBL NOC & SUN ANGL TESTS	
				PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			ENABLE SUN/APERTURE & BOP TESTS	
04:00						PDIP 1 KU BAND RATE - OFF		UPLINK KU CH 2 -RNS

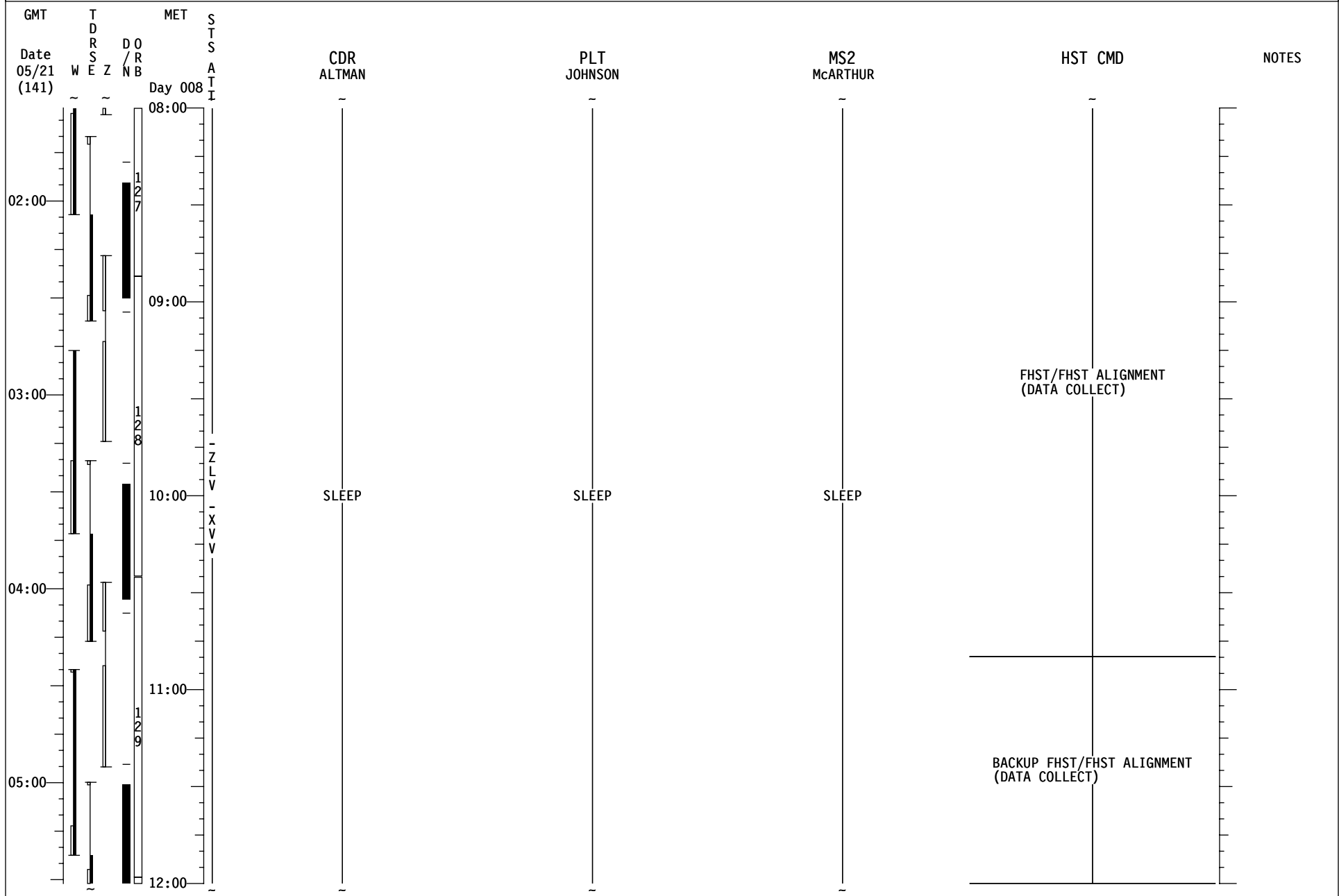
STS-125 (FD09)



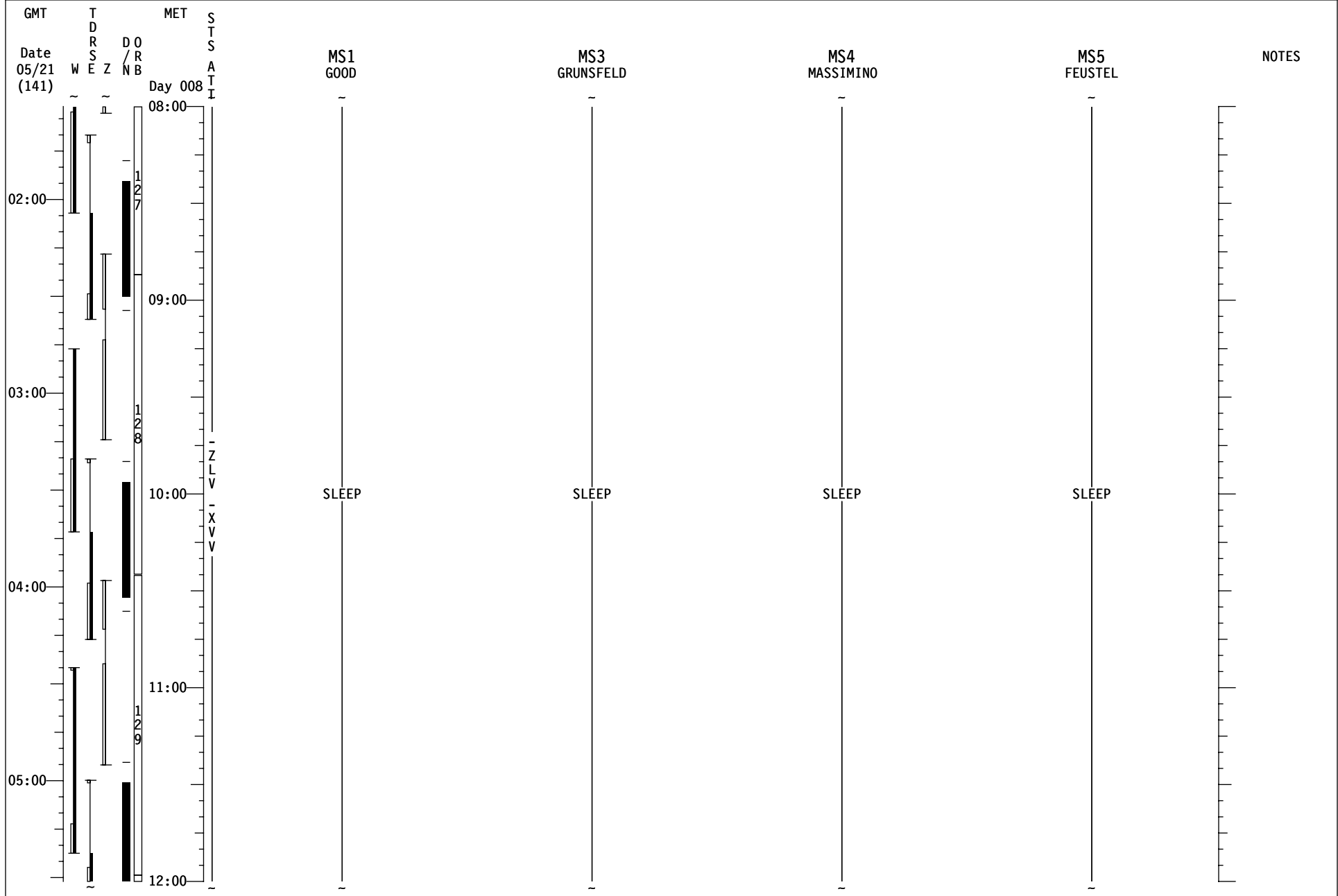
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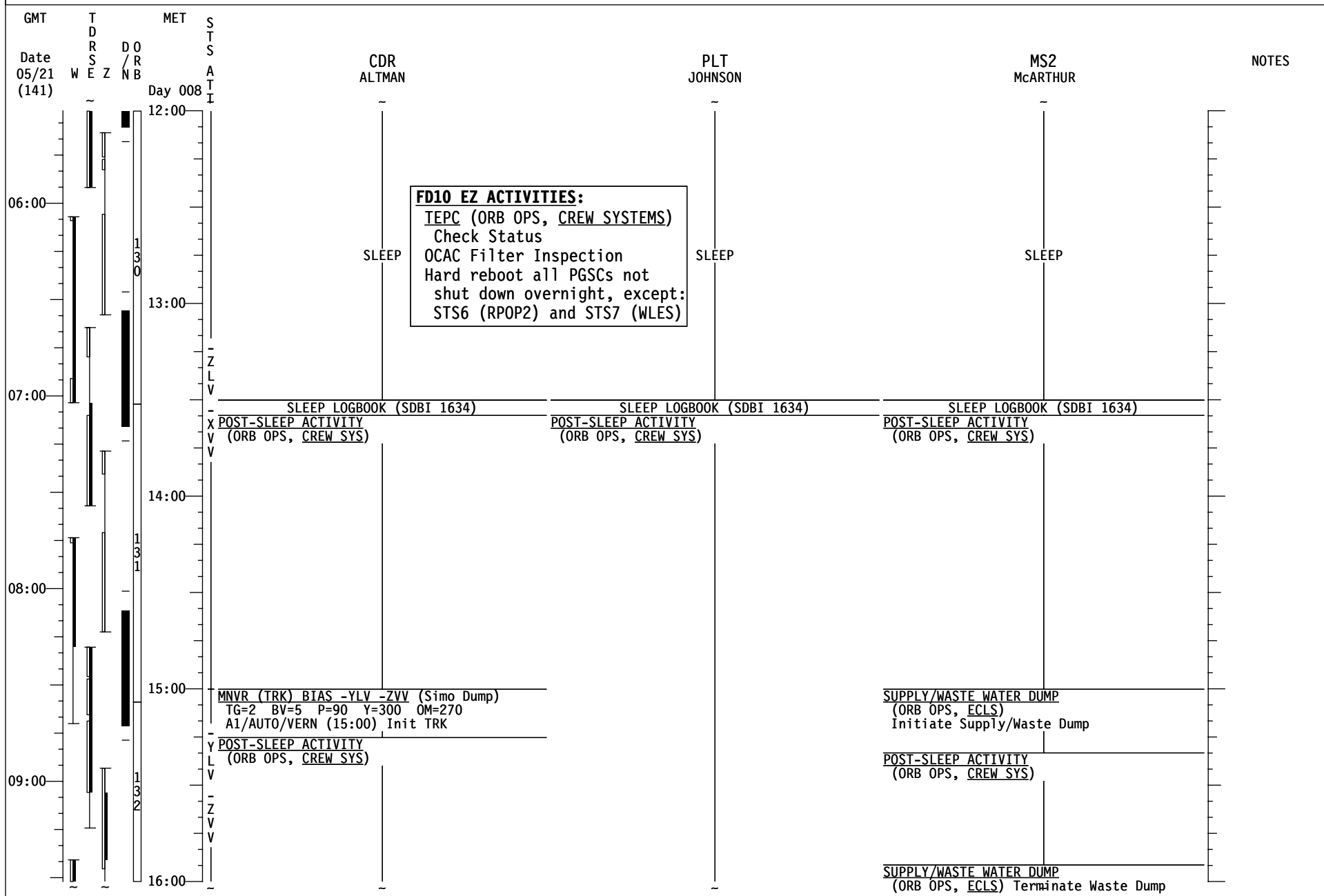
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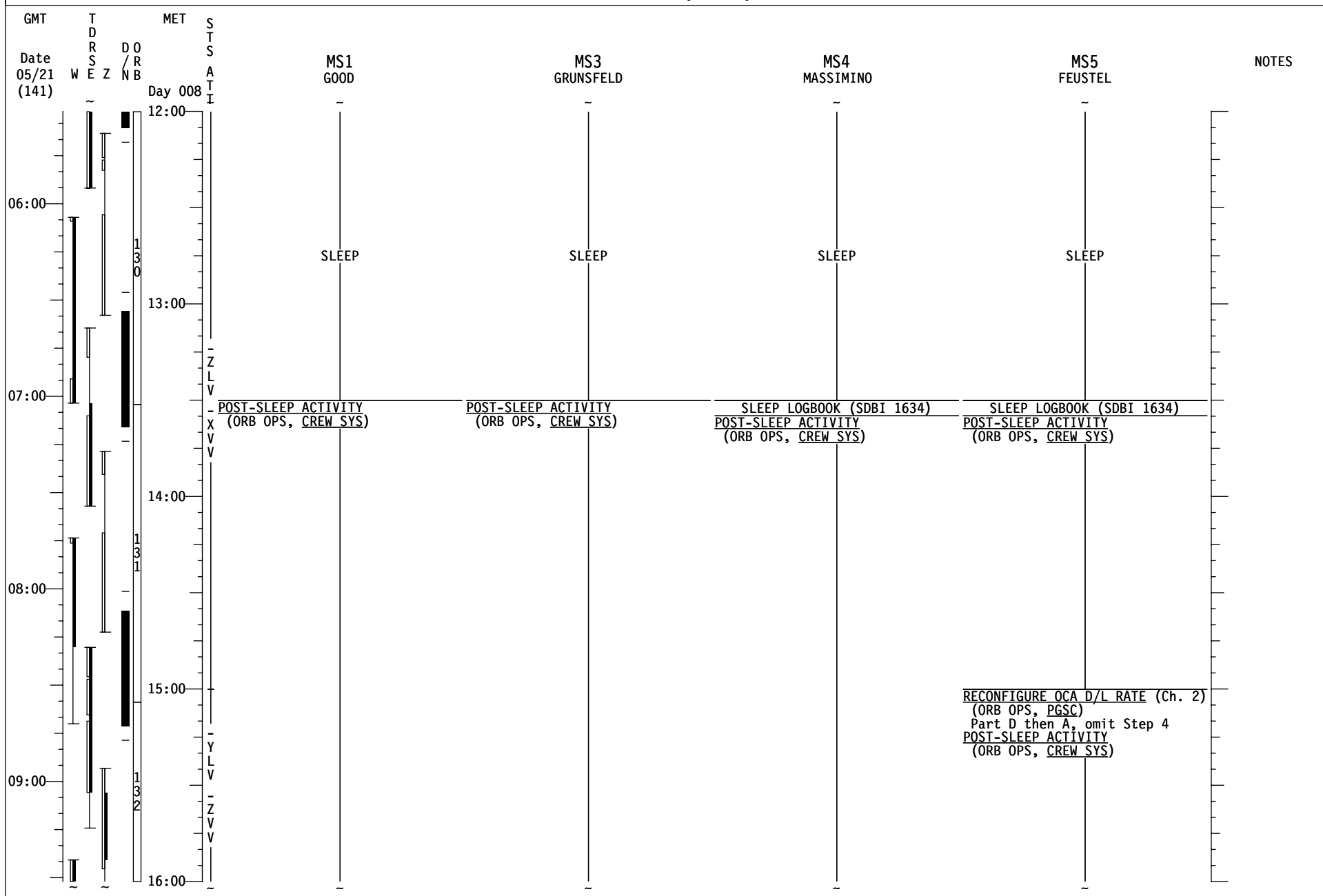
STS-125 (FD09)



STS-125 (FD10)



STS-125 (FD10)



STS-125 (FD10)

GMT	TDRS W E Z	MET D O R B N B Day 008	S T S A T I	CDR ALTMAN	PLT JOHNSON	MS2 McARTHUR	NOTES
16:00				POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) L17 Check MCIU filter screen	SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Terminate Waste Dump	
					POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
17:00						SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Terminate Supply Dump	
						POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
11:00				MNVR (TRK) -ZLV -XVV TG=2 BV=3 OM=0 A1/AUTO/VERN (OBSS BERTH cmlt) Init TRK	CANON G1 (PAO Event Setup) (P/TV, REF PROC) HD DIGITAL CC DNK	RMS PWRDN (PDRS, RMS PWRDN)	
				FUTURE LOADED MNVR (Comm) TG=2 BV=2 OM=180 A1/AUTO/VERN (8/18:55) Init TRK			
18:00				OFF DUTY	OFF DUTY	OFF DUTY	
12:00				NETMEETING VIDEO CONFERENCING (ORB OPS, PGSC) PFC using A/G for comm			OCA-PFC
19:00				OFF DUTY			
13:00				CREW CONFERENCE KU TDRW (19:18-20:08)	CREW CONFERENCE KU TDRW (19:18-20:08)	CREW CONFERENCE KU TDRW (19:18-20:08)	UPLINK KU CH 3 - DTV
20:00				MEAL	MEAL	MEAL	UPLINK KU CH 3 - TV

STS-125 (FD10)

GMT	TDRSEZ	MET	SATS	MS1 GOOD	MS3 GRUNSFELD	MS4 MASSIMINO	MS5 FEUSTEL	NOTES
Date 05/21 (141)	W E Z	Day 008	DAY					
16:00	192		Y	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
10:00	192		L	OBSS BERTH (PDRS, OBSS OPERATIONS) Do not procede to Step 4 until water dump has been terminated.		OBSS BERTH (PDRS, OBSS OPERATIONS) Do not procede to Step 4 until water dump has been terminated.		
17:00	193		V					
11:00	193		Z	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		RMS PWRDN (PDRS, RMS PWRDN)		
18:00	193		V					
12:00	194		L	OFF DUTY	OFF DUTY	OFF DUTY	OFF DUTY	
19:00	194		V					
13:00	194		X	CREW CONFERENCE KU TDRW (19:18-20:08)	CREW CONFERENCE KU TDRW (19:18-20:08)	CREW CONFERENCE KU TDRW (19:18-20:08)	CREW CONFERENCE KU TDRW (19:18-20:08)	
20:00	195		V	MEAL	MEAL	MEAL	MEAL	

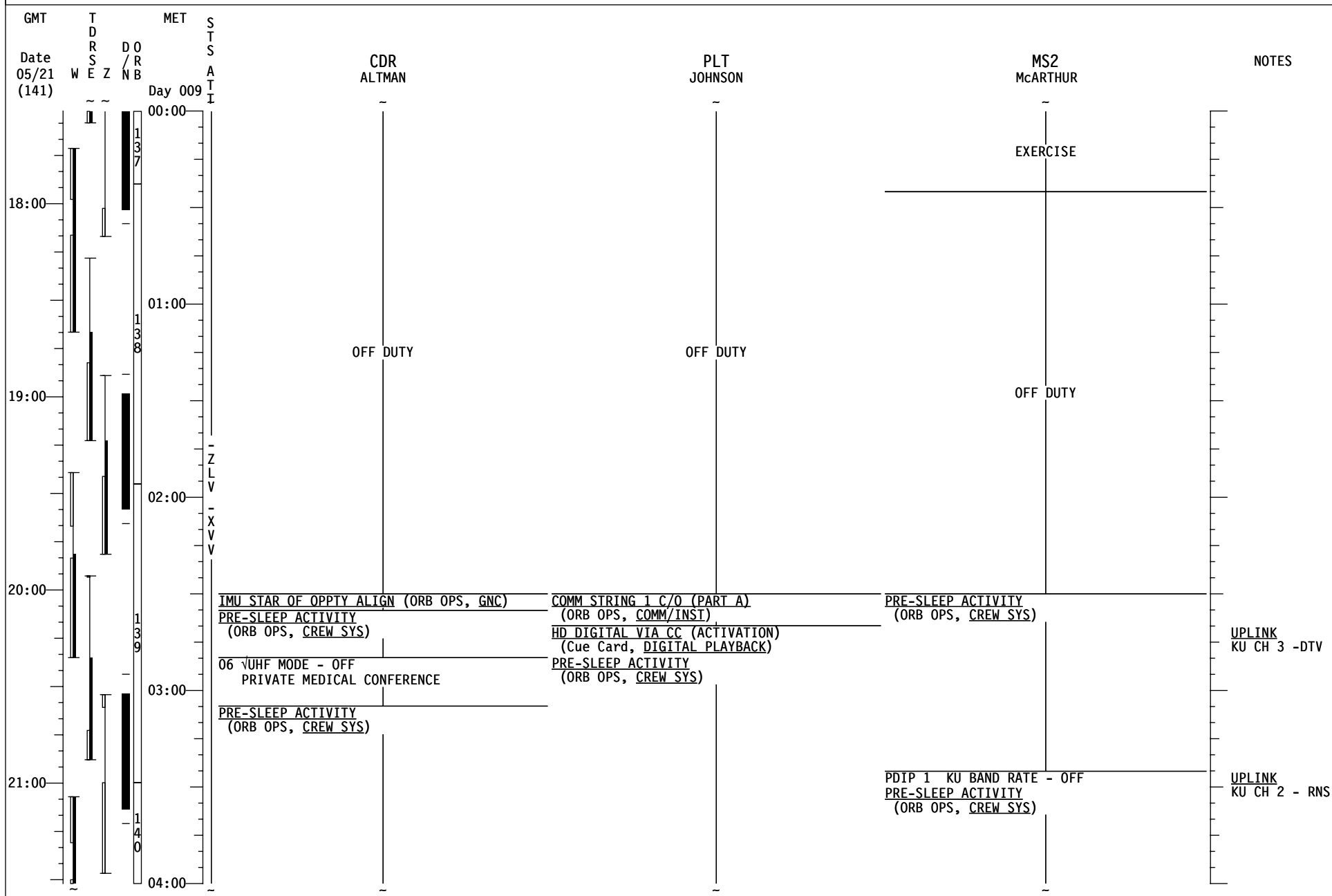
STS-125 (FD10)

GMT	TDRSEZ	MET	STS	CDR ALTMAN	PLT JOHNSON	MS2 McARTHUR	NOTES
Date 05/21 (141)	W E Z	Day 008	STATI				
14:00			COMM	MEAL	MEAL	MEAL	
15:00				SHIP-TO-SHIP CALL KU TDRW (20:53-21:37)	SHIP-TO-SHIP CALL KU TDRW (20:53-21:37)	SHIP-TO-SHIP CALL KU TDRW (20:53-21:37)	UPLINK KU CH 3 - DTV
				MNVR (TRK) -ZLV -XVV TG=2 BV=3 OM=0 A1/AUTO/VERN (Call cmlt) Init TRK	OFF DUTY		UPLINK KU CH 3 - TV
				OFF DUTY	NETMEETING VIDEO CONFERENCING (ORB OPS, PGSC) PFC using A/G for comm		OCA-PFC
16:00			ZLV	EXERCISE	OFF DUTY	OFF DUTY	
			XVV		EXERCISE		
17:00				OFF DUTY	OFF DUTY	NETMEETING VIDEO CONFERENCING (ORB OPS, PGSC) PFC using A/G for comm	OCA-PFC
						OFF DUTY	
00:00						EXERCISE	

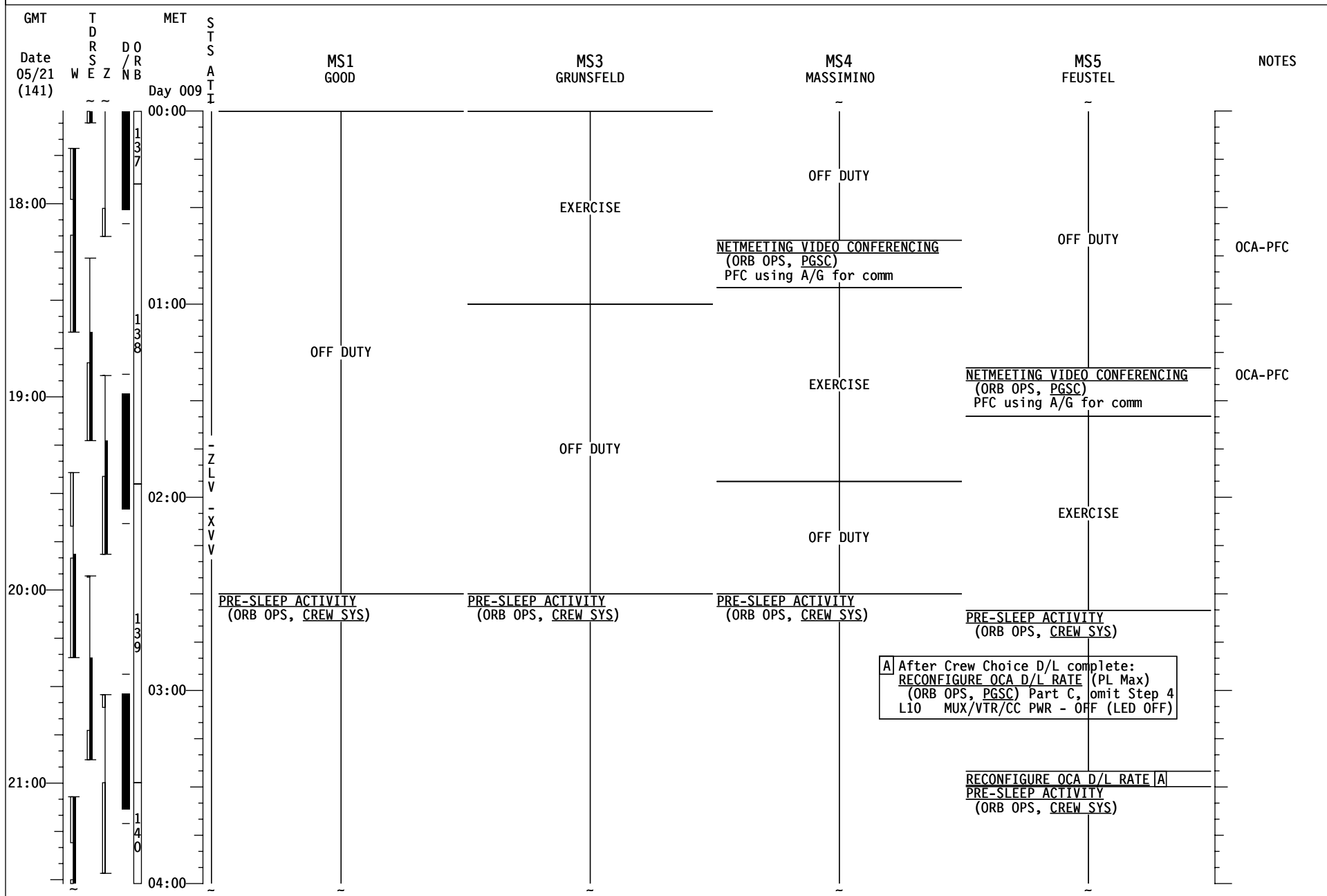
STS-125 (FD10)

GMT	TDRS WSEZ	MET Day 008	STS ATTI	MS1 GOOD	MS3 GRUNSFELD	MS4 MASSIMINO	MS5 FEUSTEL	NOTES
14:00			COMM	MEAL	MEAL	MEAL	MEAL	
15:00				OFF DUTY				
16:00			ZLV	OFF DUTY	OFF DUTY	OFF DUTY	OFF DUTY	OCA-PFC
17:00			XVV	EXERCISE				
20:00								
21:00				<u>SHIP-TO-SHIP CALL</u> KU TDRW (20:53-21:37)	<u>SHIP-TO-SHIP CALL</u> KU TDRW (20:53-21:37)	<u>SHIP-TO-SHIP CALL</u> KU TDRW (20:53-21:37)	<u>SHIP-TO-SHIP CALL</u> KU TDRW (20:53-21:37)	
22:00				<u>NETMEETING VIDEO CONFERENCING</u> (ORB OPS, PGSC) PFC using A/G for comm				
23:00								
00:00				OFF DUTY	OFF DUTY			OCA-PFC

STS-125 (FD10)

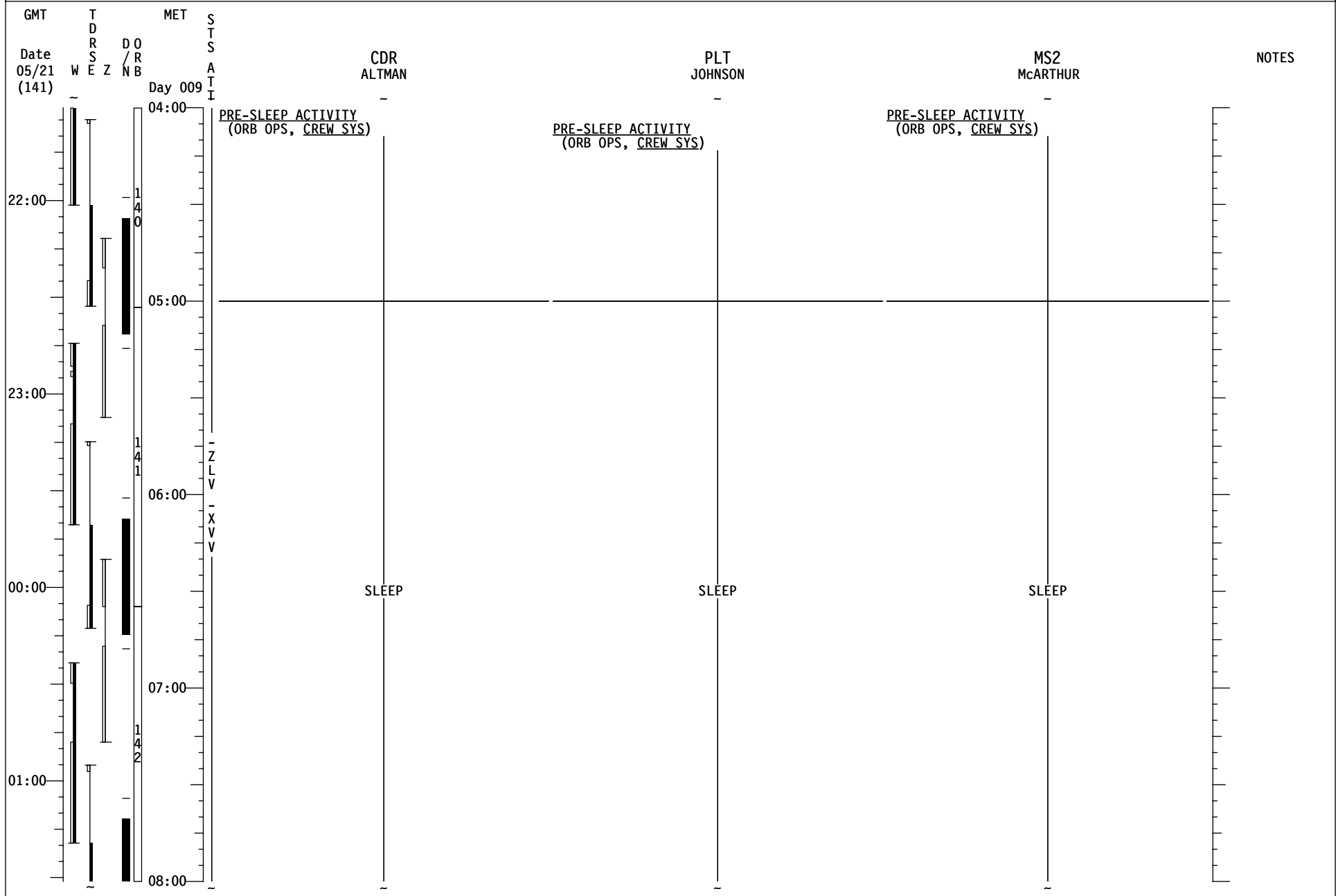


STS-125 (FD10)

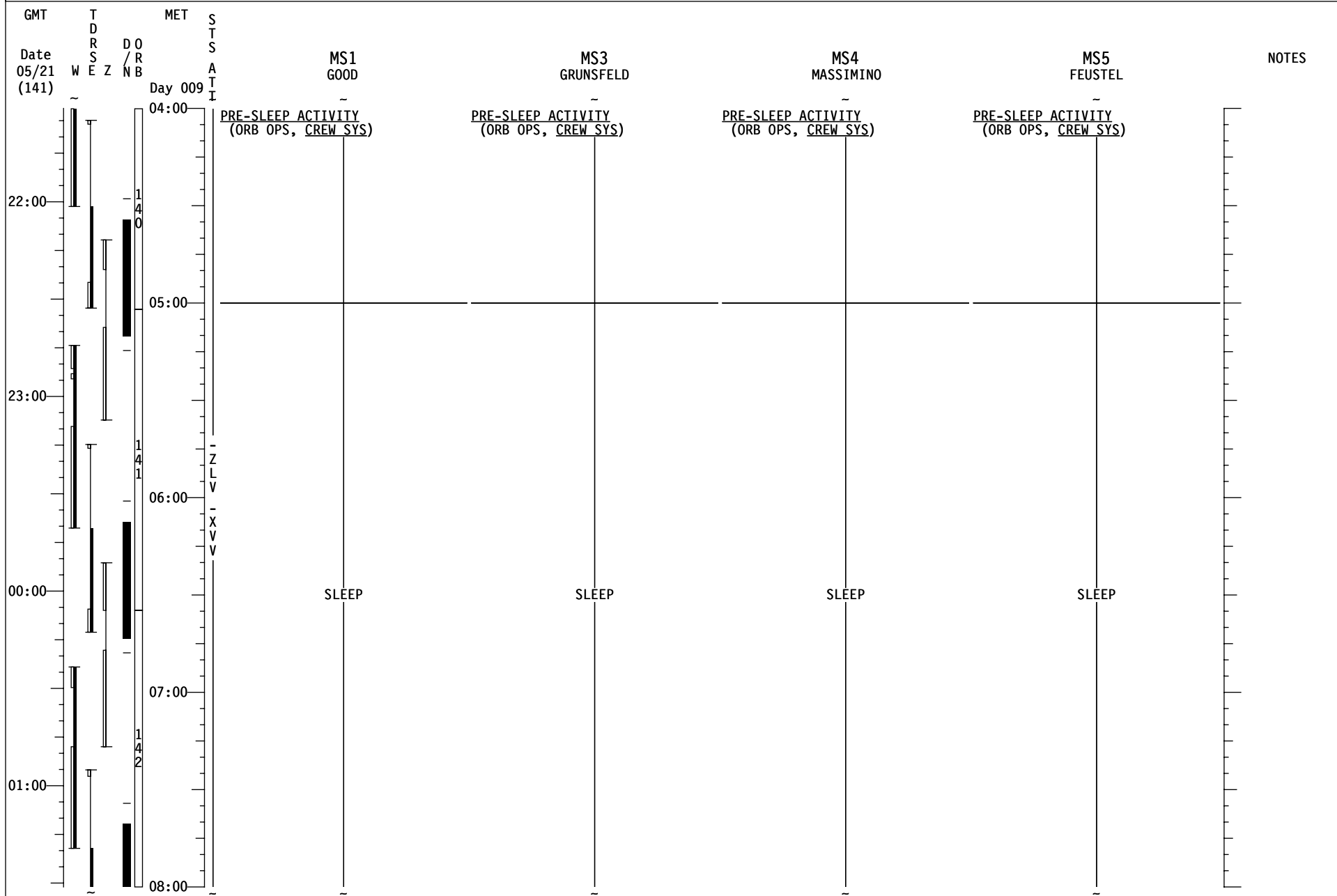


A) After Crew Choice D/L complete:
 RECONFIGURE OCA D/L RATE (PL Max)
 (ORB OPS, PGSC) Part C, omit Step 4
 L10 MUX/VTR/CC PWR - OFF (LED OFF)

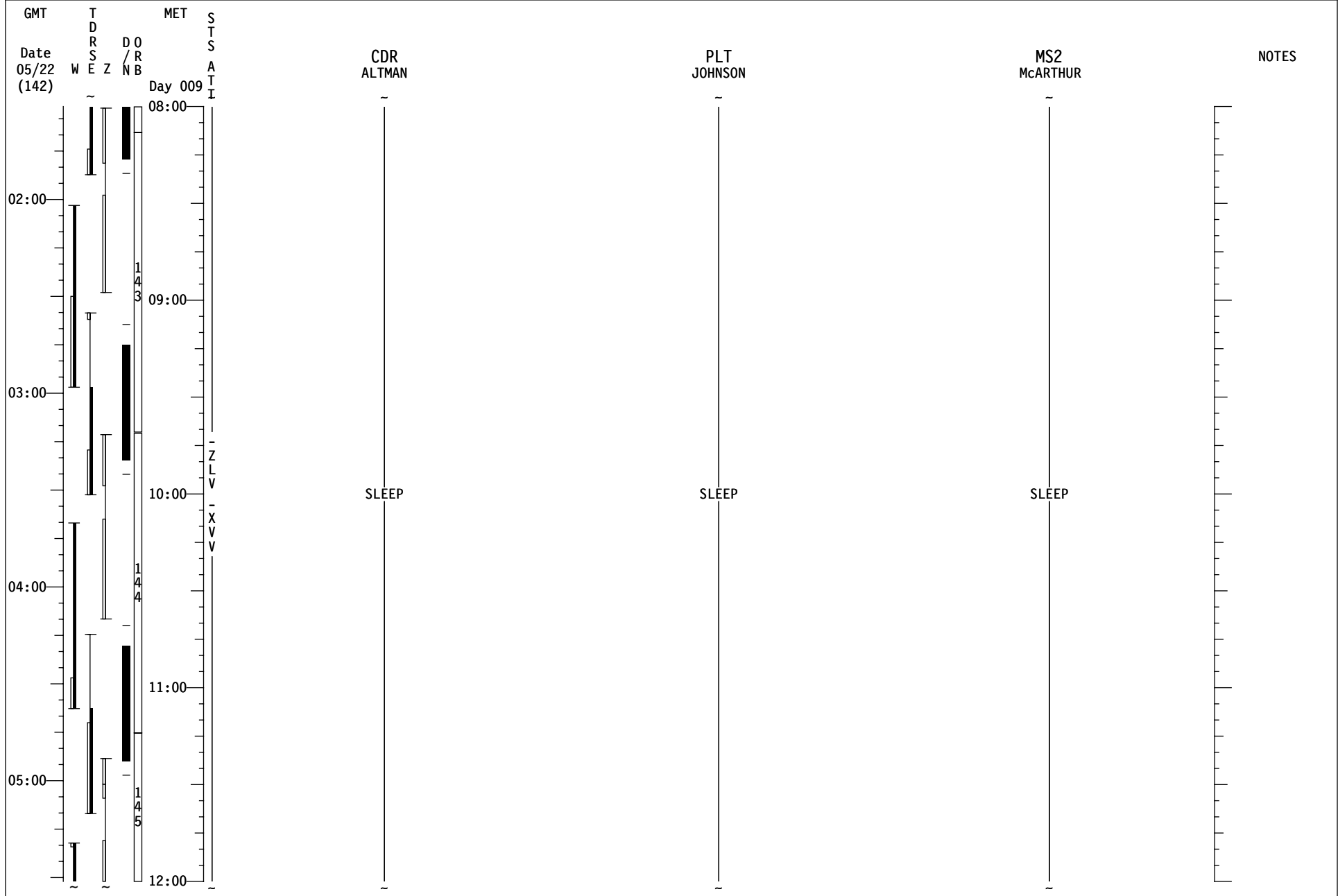
STS-125 (FD10)



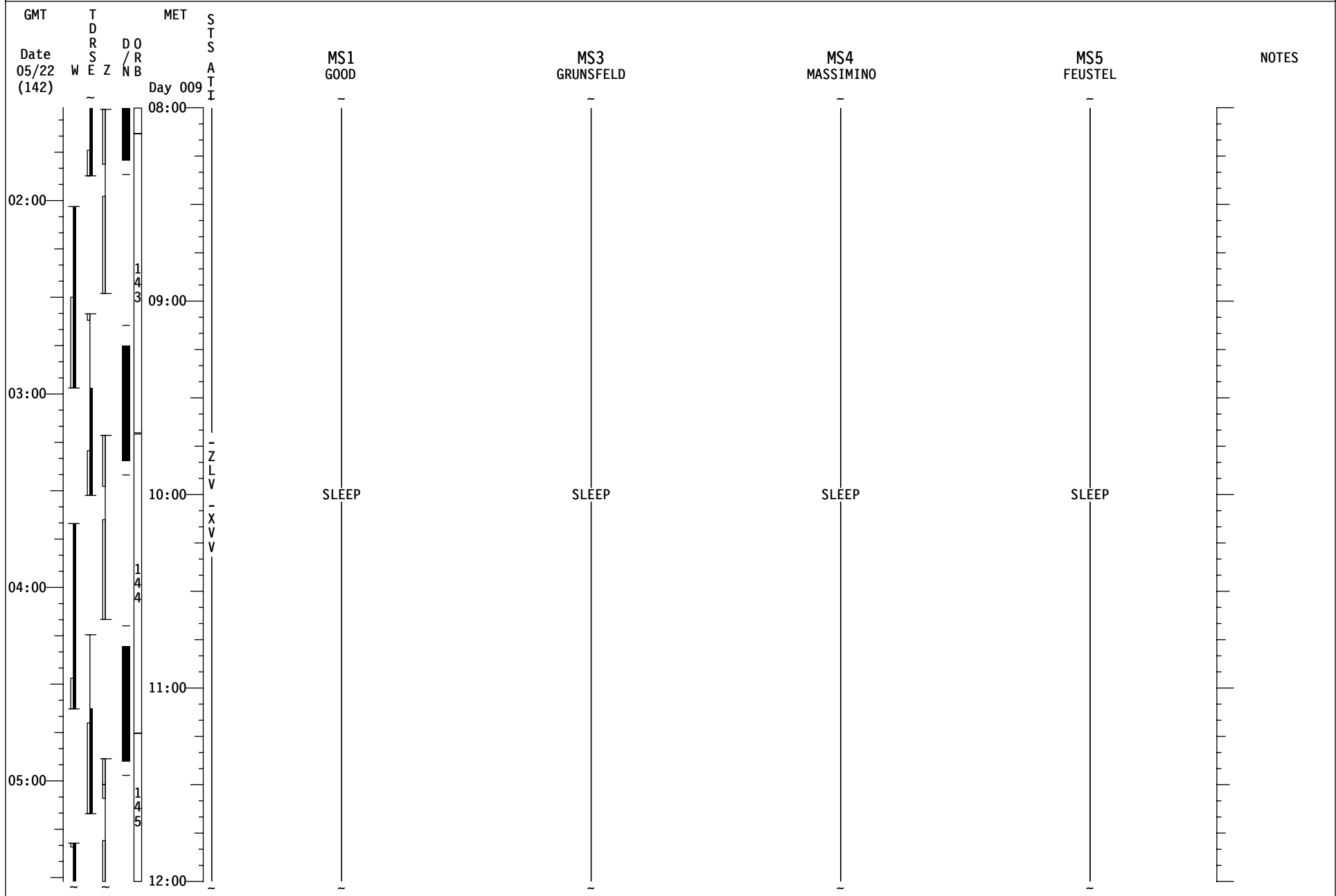
STS-125 (FD10)



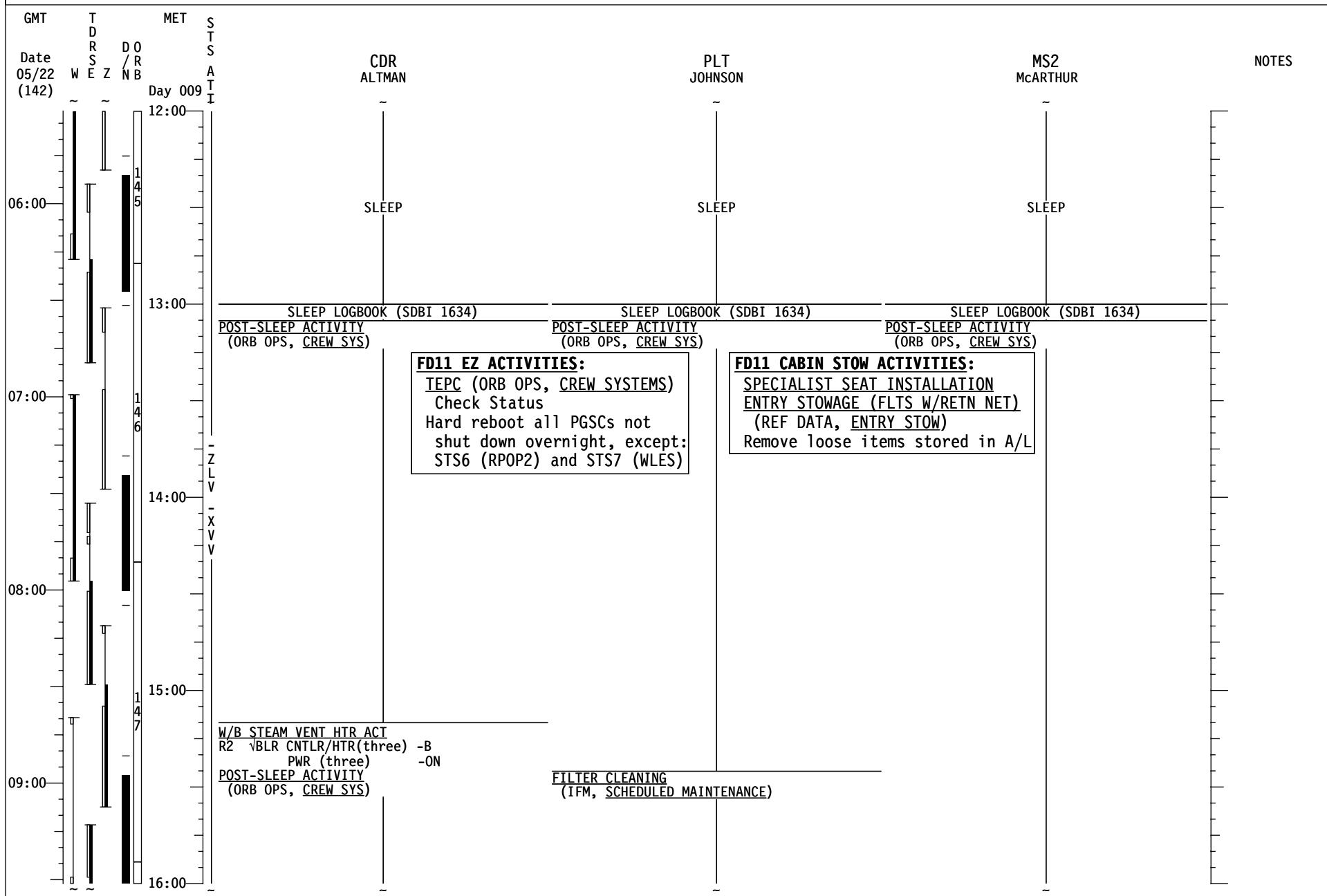
STS-125 (FD11)



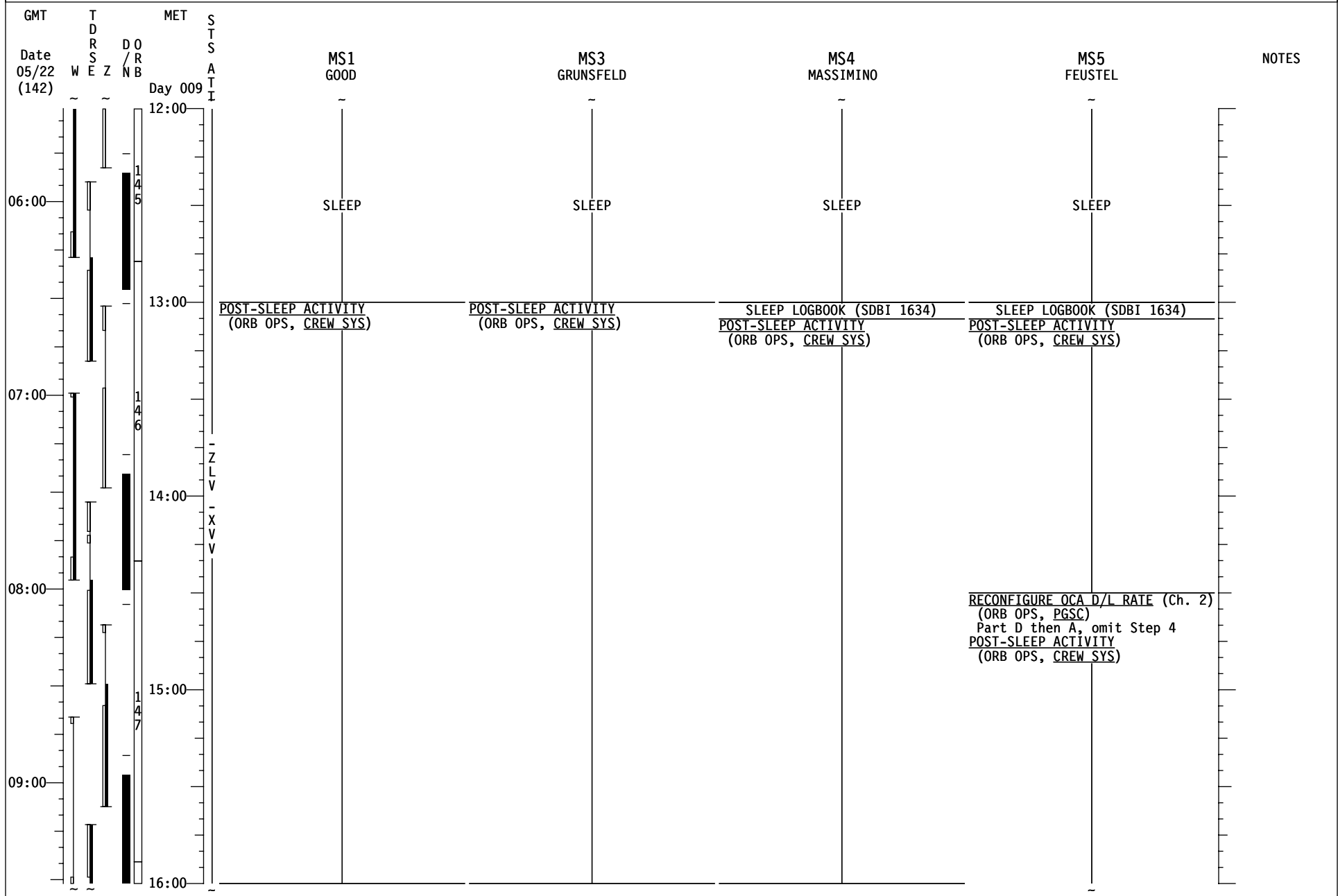
STS-125 (FD11)



STS-125 (FD11)



STS-125 (FD11)



STS-125 (FD11)

GMT	TDRS W E Z	MET Day 009	STS A T I	CDR ALTMAN	PLT JOHNSON	MS2 McARTHUR	NOTES
Date 05/22 (142) 10:00 11:00 12:00 13:00 20:00	~	16:00	I	<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS) <u>SUPPLY WATER DUMP USING FES</u> (ORB OPS, ECLS) Step 1 only, using FES PRI A <u>FCS CHECKOUT</u> (ORB OPS, GNC)	<u>FILTER CLEANING</u> (IFM, SCHEDULED MAINTENANCE) <u>FCS CHECKOUT</u> (ORB OPS, GNC)	<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS) <u>FCS CHECKOUT</u> (ORB OPS, GNC)	UPLINK TFL 161
	~	17:00	I	<u>RCS HOT FIRE TEST</u> (ORB OPS, RCS)	<u>RCS HOT FIRE TEST</u> (ORB OPS, RCS)	<u>RCS HOT FIRE TEST</u> (ORB OPS, RCS)	
	~	18:00	I	DAP: AUTO <u>PILOT WITH RHC</u> (ORB OPS, PGSC)	<u>PILOT WITH RHC</u> (ORB OPS, PGSC)	<u>PILOT WITH RHC</u> (ORB OPS, PGSC)	UPLINK TFL 192
	~	19:00	I	CABIN CONFIG/STOW	CABIN CONFIG/STOW	CABIN CONFIG/STOW	
	~	19:00	I	DEORBIT PREP BRIEFING	DEORBIT PREP BRIEFING	DEORBIT PREP BRIEFING	
	~	20:00	I	MEAL	MEAL	MEAL	

STS-125 (FD11)

GMT	TDRSEZ	MET	SATS	MS1 GOOD	MS3 GRUNSFELD	MS4 MASSIMINO	MS5 FEUSTEL	NOTES
Date 05/22 (142)	W E Z	Day 009	16:00			<u>FCS CHECKOUT CAMR SETUP</u> (P/TV, REF PROC)	<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	
				CABIN CONFIG/STOW	EXERCISE		CABIN CONFIG/STOW	
				EXERCISE		CABIN CONFIG/STOW		
							EXERCISE	
				CABIN CONFIG/STOW	CABIN CONFIG/STOW			
						EXERCISE	CABIN CONFIG/STOW	
				DEORBIT PREP BRIEFING	DEORBIT PREP BRIEFING	DEORBIT PREP BRIEFING	DEORBIT PREP BRIEFING	
				MEAL	MEAL	MEAL	MEAL	

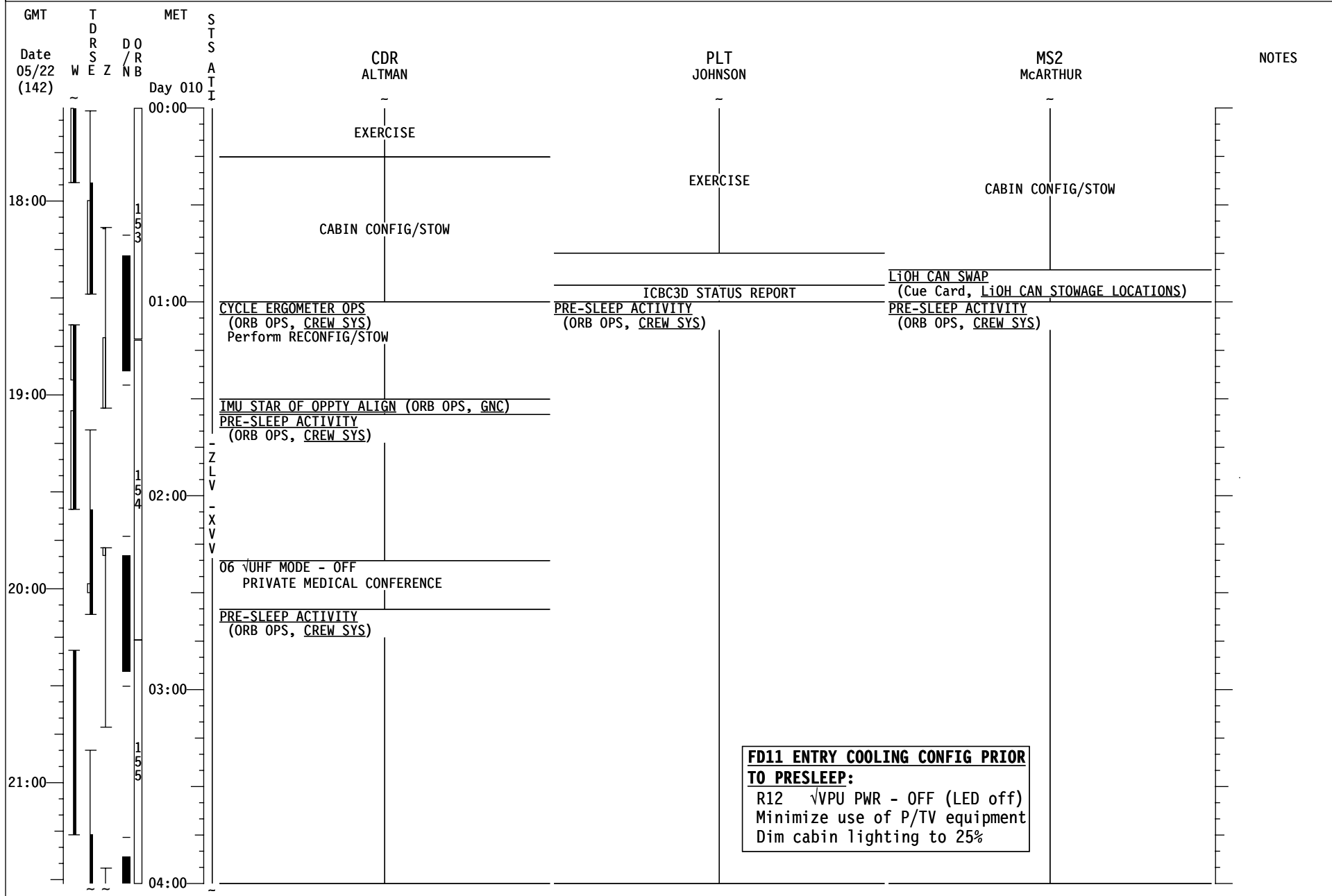
STS-125 (FD11)

GMT	TDRS W E Z	MET Day 009	S T S A T I	CDR ALTMAN	PLT JOHNSON	MS2 McARTHUR	NOTES
Date 05/22 (142)							
14:00				MEAL	MEAL	MEAL	
				<u>SUPPLY WATER DUMP USING FES</u> (ORB OPS, ECLS) Step 2 only, FES PRI A req'd	<u>SEQUENTIAL STILL VIDEO (SSV)</u> (P/TV, REF PROC) Perform SSV DEACTIVATION		
					<u>CANON G1</u> (PAO Event Setup) (P/TV, REF PROC) HD DIGITAL CC DNLC	CABIN CONFIG/STOW	
15:00				<u>PUBLIC AFFAIRS EVENT</u> KU TDRE (21:09-21:39)	<u>PUBLIC AFFAIRS EVENT</u> KU TDRE (21:09-21:39)	<u>PUBLIC AFFAIRS EVENT</u> KU TDRE (21:09-21:39)	<u>UPLINK</u> KU CH 3 - DTV
				CREW PHOTO	CREW PHOTO	CREW PHOTO	<u>UPLINK</u> KU CH 3 - TV
16:00				CABIN CONFIG/STOW	CABIN CONFIG/STOW	EXERCISE	
				<u>PUBLIC AFFAIRS EVENT</u> KU TDRE (22:48-23:18)	<u>PUBLIC AFFAIRS EVENT</u> KU TDRE (22:48-23:18)	<u>PUBLIC AFFAIRS EVENT</u> KU TDRE (22:48-23:18)	<u>UPLINK</u> KU CH 3 - DTV
				EXERCISE	<u>MINI-CAM</u> (P/TV, <u>MINI-CAM</u>) Entry Video Setup	CABIN CONFIG/STOW	<u>UPLINK</u> KU CH 3 - TV
17:00					EXERCISE		
00:00							

STS-125 (FD11)

GMT	TDRSEZ	MET	SATS	MS1 GOOD	MS3 GRUNSFELD	MS4 MASSIMINO	MS5 FEUSTEL	NOTES
Date 05/22 (142)	W E Z	Day 009	DO R N B					
14:00				MEAL	MEAL	MEAL	MEAL	
21:00				LANDING-1 COMM C/O (ORB OPS, COMM/INST) MLA (20:55-21:03)	CABIN CONFIG/STOW	CABIN CONFIG/STOW	CABIN CONFIG/STOW	
15:00				PUBLIC AFFAIRS EVENT KU TDRE (21:09-21:39)	PUBLIC AFFAIRS EVENT KU TDRE (21:09-21:39)	PUBLIC AFFAIRS EVENT KU TDRE (21:09-21:39)	PUBLIC AFFAIRS EVENT KU TDRE (21:09-21:39)	
22:00				CREW PHOTO	CREW PHOTO	CREW PHOTO	CREW PHOTO	
16:00				CABIN CONFIG/STOW				
23:00				LANDING-1 COMM C/O (ORB OPS, COMM/INST) DFR (22:25-22:33)	CABIN CONFIG/STOW	CABIN CONFIG/STOW	CABIN CONFIG/STOW	
17:00				PUBLIC AFFAIRS EVENT KU TDRE (22:48-23:18)	PUBLIC AFFAIRS EVENT KU TDRE (22:48-23:18)	PUBLIC AFFAIRS EVENT KU TDRE (22:48-23:18)	PUBLIC AFFAIRS EVENT KU TDRE (22:48-23:18)	
00:00				WLES DEACTIVATION AND TEARDOWN (ORB OPS, WLE SENSORS)	CABIN CONFIG/STOW	CABIN CONFIG/STOW	CABIN CONFIG/STOW	

STS-125 (FD11)



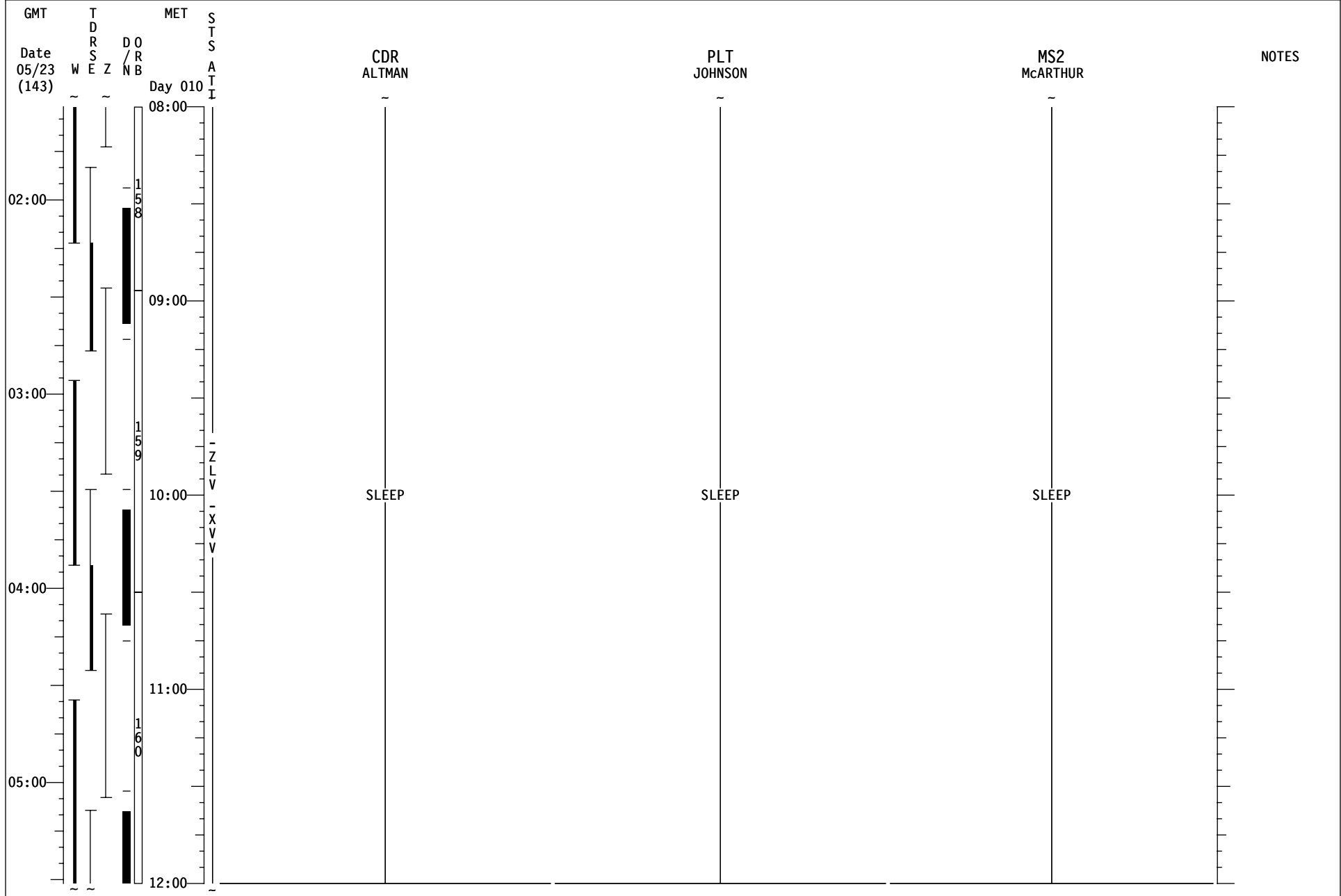
STS-125 (FD11)

GMT	T D R S E Z	MET	S T S	MS1	MS3	MS4	MS5	NOTES
Date 05/22 (142)	W E Z	Day 010	A T I	GOOD	GRUNSFELD	MASSIMINO	FEUSTEL	
				<u>POST EVA ENTRY PREP</u> (EVA, <u>POST EVA ENTRY PREP</u>) Ref. <u>STS-125 EVA CONSUMABLES</u> Cue Card	<u>POST EVA ENTRY PREP</u> (EVA, <u>POST EVA ENTRY PREP</u>) Ref. <u>STS-125 EVA CONSUMABLES</u> Cue Card	<u>POST EVA ENTRY PREP</u> (EVA, <u>POST EVA ENTRY PREP</u>) Ref. <u>STS-125 EVA CONSUMABLES</u> Cue Card	<u>POST EVA ENTRY PREP</u> (EVA, <u>POST EVA ENTRY PREP</u>) Ref. <u>STS-125 EVA CONSUMABLES</u> Cue Card	
18:00						A) P/TV09 ICBC3D (NOMINAL) (P/TV, SCENES) ICBC3D DEACTIVATION Step 1 only		
				<u>KU-BD ANT STOW</u> (ORB OPS, <u>COMM/INST</u>) Deact CCTV	<u>CYCLE ERGOMETER OPS</u> (ORB OPS, <u>CREW SYS</u>) Perform RECONFIG/STOW	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, <u>CREW SYS</u>)	<u>PGSC NETWORK (B. TEARDOWN)</u> A) <u>COLOR PRINTER STOW</u> (ORB OPS, <u>PGSC</u>) Stow Color Printer and all STS PGSCs except STS-2 (WinDecom)	
19:00				C3 MASTER MADS POWER - ON A6L MADS STRAIN GAGE - ON <u>PRE-SLEEP ACTIVITY</u> (ORB OPS, <u>CREW SYS</u>)			<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, <u>CREW SYS</u>)	
				<u>COMM STRING 1 C/O (PART B)</u> (ORB OPS, <u>COMM/INST</u>)	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, <u>CREW SYS</u>)			
				<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, <u>CREW SYS</u>)				
20:00								
21:00								
04:00								

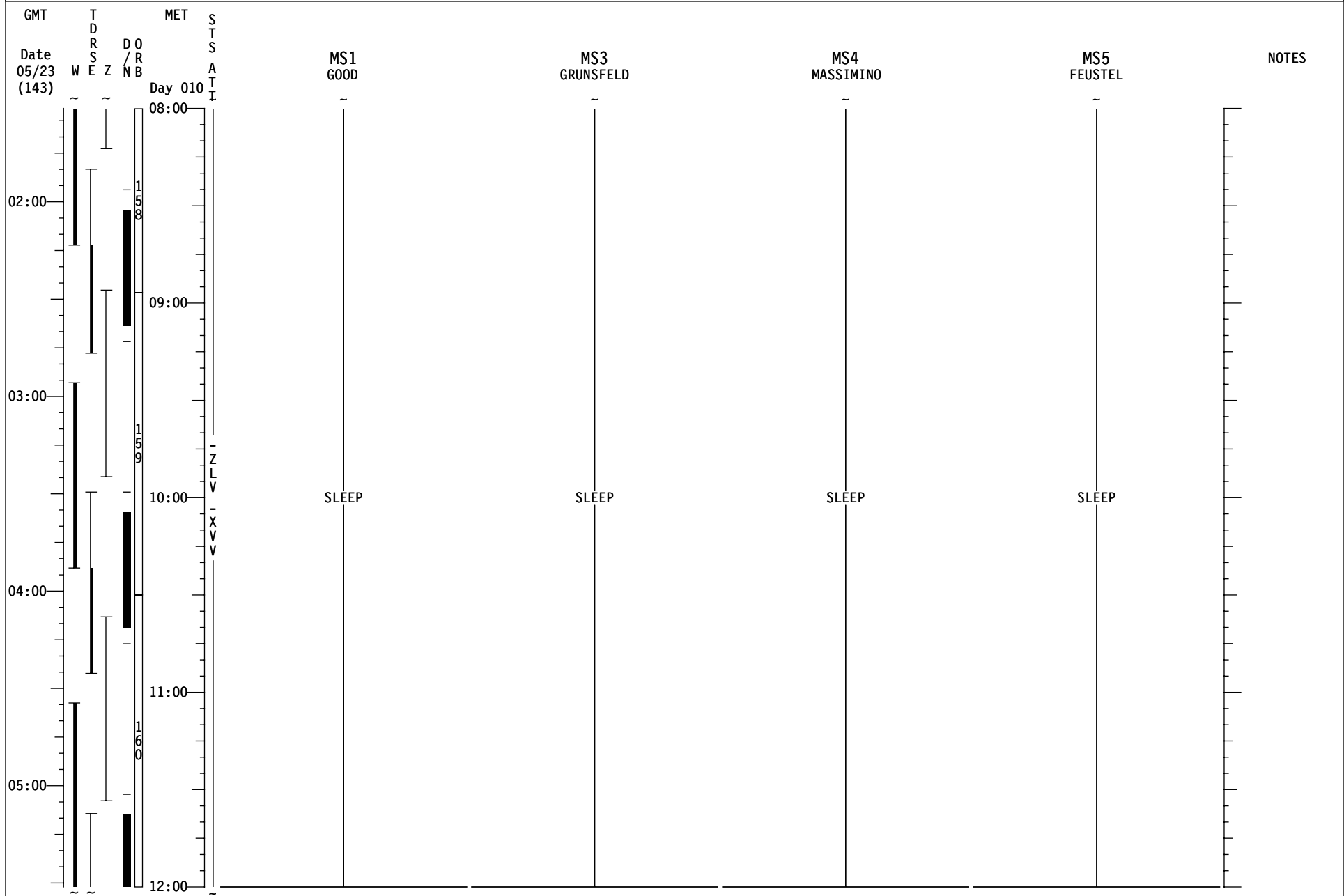
STS-125 (FD11)

GMT	T D R S W E Z	MET D O R B N B	S T S A T I	MS1 GOOD	MS3 GRUNSFELD	MS4 MASSIMINO	MS5 FEUSTEL	NOTES
Date 05/22 (142)	~	Day 010						
04:00								
22:00								
23:00								
00:00				SLEEP	SLEEP	SLEEP	SLEEP	
01:00								
08:00								

STS-125 (FD11)



STS-125 (FD11)



STS-125 (FD12)

GMT	TDRS W E Z	MET DO R N B	S T S A T I	CDR ALTMAN	PLT JOHNSON	MS2 McARTHUR	NOTES
Date 05/23 (143)		Day 010					
06:00				SLEEP LOGBOOK (SDBI 1634) POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	SLEEP LOGBOOK (SDBI 1634) POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	SLEEP LOGBOOK (SDBI 1634) POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
07:00				06 VUHF MODE - OFF PRIVATE MEDICAL CONFERENCE			FD12 EZ ACTIVITIES BEFORE LEAVING FLIGHT PLAN: TEPC (ORB OPS, CREW SYSTEMS) Check Status FLUID LOADING PREP Fill Drink Containers per MSG XXX OCAC Filter Inspection Stow CSA-CP
08:00				DOFF ACTIWATCH (ORB OPS, SDBI) PRIOR PWRUP GROUP B (ORB PKT, PRIOR PWRDN) Steps 12 (Recover IMU 3),10, 9,7,6 (Dual G2,1212),5	DOFF ACTIWATCH (ORB OPS, SDBI) PRIOR PWRUP GROUP B (ORB PKT, PRIOR PWRDN) Steps 12 (Recover IMU 3),10, 9,7,6 (Dual G2,1212),5	GIRA STOWAGE (ORB OPS, ECLS)	
09:00				MNVR IMU STAR ALIGN ATT [A] (pg 3-130) A1/AUTO/VERN Init MNVR (10/14:35) IMU ALIGN - S TRK (ORB OPS, GNC) M U MNVR IMU VERIF ATT [B] (pg 3-130) A1/AUTO/VERN Init MNVR IMU ALIGN - S TRK (ORB OPS, GNC)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) SSP2 ICBC3D PWR - OFF (tb-bp) P/TV09 ICBC3D (AUDIO RECORDER) (P/TV, SCENES) Powerdown and Stow	DOFF ACTIWATCH (ORB OPS, SDBI) AIR SAMPLE Rcd MET and location on bottle SSE DEACT (PL OPS, IN-BAY OPERATIONS)	
16:00				MNVR (TRK) -XSI ATT (Coldsoak) TG=4 BV=5 P=184 Y=0 OM=270 A1/AUTO/VERN (10/15:08) Init TRK			

GO TO DEORBIT PREP @ 10/15:18

STS-125 (FD12)

GMT	TDRSEZ	MET	SATS	MS1 GOOD	MS3 GRUNSFELD	MS4 MASSIMINO	MS5 FEUSTEL	NOTES
Date 05/23 (143)	W E Z	Day 010	12:00					
				POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	SLEEP LOGBOOK (SDBI 1634) POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	SLEEP LOGBOOK (SDBI 1634) POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
06:00								
			13:00					
07:00				V A6L MADS STRAIN GAGE - PCM ENA POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)				
			14:00					
08:00								
			15:00		TISSUE EQUIVALENT PROPORTIONAL COUNTER (TEPC) (POWERDOWN) (ORB OPS, CREW SYSTEMS)			
				SSE DEACT (PL OPS, IN-BAY OPERATIONS)		DOFF ACTIWATCH (ORB OPS, SDBI) OCAC STOWAGE (ORB OPS, CREW SYS)	DOFF ACTIWATCH (ORB OPS, SDBI) PGSC NETWORK (B. TEARDOWN) DOCKING/UNDocking A31p PGSC (B. UNDOCKING PGSC FROM DOCKING STATION) (ORB OPS, PGSC) Stow remaining PGSC	
09:00								
			16:00					

GO TO DEORBIT PREP @ 10/15:18



FLIGHT PLAN

STS
125