

Space Shuttle Program
FLIGHT DATA FILE

Flight Plan

STS-113/11A

(FDO Provided L-8 Week Trajectory)

**Mission Operations Directorate
 Operations Division**

For the latest working copy of the Flight Plan, visit
<http://mod.jsc.nasa.gov/do4/flightplan/fp.cfm?id=113>

**Final
 September 27, 2002**

EVENT	MET	CENTRAL		
Launch	0/00:00	Sun	11/10/02	00:21
Ti	1/18:57	Mon	11/11/02	19:18
DOCK	1/21:18	Mon	11/11/02	21:39
P1 Unberth	2/15:00	Tue	11/12/02	15:21
P1 Second Stage Cap	2/19:00	Tue	11/12/02	19:21
EVA 1	2/19:50	Tue	11/12/02	20:11
Reboost 1 (CFG4)	3/16:50	Wed	11/13/02	17:11
EVA 2	4/18:50	Thu	11/14/02	19:11
Reboost 2 (CFG3)	5/17:45	Fri	11/15/02	18:06
EVA 3	6/18:50	Sat	11/16/02	19:11
Reboost 3(CFG3)	7/17:50	Sun	11/17/02	18:11
Undock	8/19:05	Mon	11/18/02	19:26
MEPSI Deploy	8/23:41	Mon	11/18/02	23:22
D/O TIG	10/18:09	Wed	11/20/02	18:30
Landing	10/19:14	Wed	11/20/02	19:35

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/dfd>


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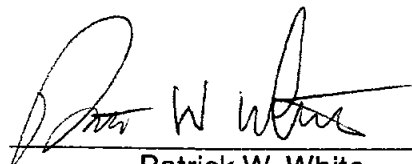
STS-113 FLIGHT PLAN

FINAL
September 27, 2002

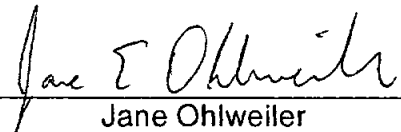
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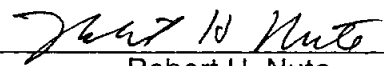

Patrick W. White
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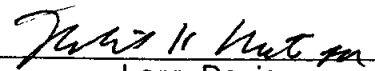




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FLIGHT PLAN
STS-113

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2-24	113/FIN	3-30	113/FIN
2-25	113/FIN	3-31	113/FIN
2-26	113/FIN	3-32	113/FIN
2-27	113/FIN	3-33	113/FIN
2-28	113/FIN	3-34	113/FIN
2-29	113/FIN	3-35	113/FIN
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2-33	113/FIN	3-39	113/FIN
2-34	113/FIN	3-40	113/FIN

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3-53	113/FIN	3-110	113/FIN
3-54	113/FIN	3-111	113/FIN
3-55	113/FIN	3-112	113/FIN
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3-65	113/FIN	3-122	113/FIN
3-66	113/FIN	3-123	113/FIN
3-67	113/FIN	3-124	113/FIN
3-68	113/FIN	3-125	113/FIN
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3-71	113/FIN	3-128	113/FIN
3-72	113/FIN	3-129	113/FIN
3-73	113/FIN	3-130	113/FIN
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9-6 * 113/FIN

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STS-113 FLIGHT PLAN FABRICATED ITEMS

<u>Title</u>	<u>Ref. Page</u>	<u>Item No.</u>
STS-113 DAP A1 – A8 CONFIGURATIONS (FRONT TOP)	CC 9-2	FLT PLN-1a/113/O/A
STS-113 DAP B1 – B8 CONFIGURATIONS (FRONT BOTTOM)	CC 9-3	FLT PLN-1aa/113/O/A
STS-113 DAP A9 – A15 CONFIGURATIONS (BACK TOP)	CC 9-4	FLT PLN-1b/113/O/B
STS-113 DAP B9 – B15 CONFIGURATIONS (BACK BOTTOM)	CC 9-5	FLT PLN-1bb/113/O/B

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INTRODUCTION

The STS-113 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, EVA, Deorbit Prep, and Entry Checklists. The detailed rendezvous and undocking timelines and procedures are contained in the Rendezvous Checklist.

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

- NSTS-07700 Vol III, Flight Definition and Requirements Document
- NSTS-17462-113, STS-113 Flight Requirements Document
- NSTS-37326, Shuttle Crew Scheduling Constraints

The STS-113 Flight Plan is based on vectors provided by Richard Theis of the Flight Dynamics Group with a launch date of November 10, 2002 at 06:21 GMT. Orbiter inertial attitudes are expressed relative to a mean of 1950 (M50) reference frame.

The following SCSC Exceptions have been submitted in order to mission objectives:

- Minimum Pre Sleep and Post Sleep
- Pre/Post Sleep Less Than 5 hr Aggregate

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

<http://mod.jsc.nasa.gov/do4/flightplan/fp.cfm?id=113>

OVERVIEW TIMELINE

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GMT	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	MET 7/																								
FD 08	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
STS	Sleep			P/S		EVA PREP				EVA 3 (6:30)				Post EVA		P Sleep		Sleep							
ISS	Sleep			Post		DP		MT Relocate(4-7), SSRMS, Handover, MT Relocate(7-4)				DP		P Sleep		Sleep									
Orb Att	BIAS -XLV +ZVV																								
	<--Video Survey-->																								

GMT	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	MET 8/																								
FD09	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
STS	Sleep			Post Sleep		P-EVA/Pre-UNDK		Meal		Off Duty				Pre Sleep		Sleep									
ISS	Sleep			Post		DP		LBNP, Handover				DP		P Sleep		Sleep									
Orb Att	BIAS -XLV +ZVV						Reboost		BIAS -XLV +ZVV																
	<--Video Survey-->						CFG 3		^COG 19:40				<--Video Survey-->												

GMT	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	MET 9/																								
FD10	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
STS	Sleep			Post Sleep		XFR EGRS LKCK		Undock/Fly/Sep		SIMO \$		Pre Sleep				Sleep									
ISS	Sleep			Post		DP		H/O EGRS LKCK		Undock		Off Duty		DP		P Sleep		Sleep							
Orb Att	BIAS -XLV +ZVV						Undock		+YVV \$		-ZLV -XVV														
	<--Video Survey-->						^Hatch 16:35		^Undock 19:05		\$MEPSI														

GMT	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	MET 10/																								
FD 11	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
STS	Sleep			Post Sleep		FCS		Cabin Stow, Off Duty, Recumb Seat Inst				Pre Sleep				Sleep									
Orb Att	-ZLV -XVV						COND DMP		-ZLV -XVV																

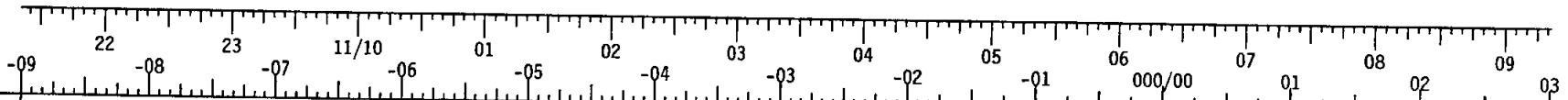
GMT	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	MET 11/																								
FD 12	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
STS	Sleep		Post Sleep		IMU		D/O Prep		Entry																
Orb Att	-ZLV -XVV				IMU		-XSI		Comm																
	^D/O TIG 10/18:09																								

SUMMARY TIMELINE AND ISS SHORT TERM PLAN

SUMMARY TIMELINE

FD01

GMT 11/09/02
MET Day 000



S T S - 1 1 3	CDR WETHERBEE		ASCENT	POST INSERTION	AFTCO
	PLT LOCKHART		ASCENT	POST INSERTION	ELPK
	MS1 LOPEZ-ALEGRIA	L A U N C H	ASCENT	POST INSERTION	OCA S/U
	MS2 HERRINGTON		ASCENT	POST INSERTION	PGSC SETUP
ISS CDR BOWERSOX	ASCENT		POST INSERTION	SEE S/U	
FE-1 BUDARIN	ASCENT		POST INSERTION		
E X P - 6	FE-2 PETTIT		ASCENT	POST INSERTION	
	DAY/NIGHT				
ORB ATT					
ORBIT			ASCENT	+YVV	
DAILY ORBIT				2	3
TDRS		W -171		7	8
E -47					
NOTES					

ARMS INI
⊕ LOAD DA
◆ PRNTR SI

FD01

MET Day 000 -09 -08 -07 -06 -05 -04 -03 -02 -01 000/00 01 02 03

GMT 11/09/02 22 23 11/10 01 02 03 04 05 06 07 08 09

I S S	DAY/NIGHT	
	ORBIT	
	DAILY ORBIT	
	TDRS KU	7 8

E X P - 5	ISS CDR KORZUN	MEAL	DAILY PLAN REVIEW	DPC	PRE SLEEP	SLEEP
	FE-1 WHITSON	MEAL	DAILY PLAN REVIEW	DPC	PRE SLEEP	SLEEP
	FE-2 TRESCHEV	MEAL	DAILY PLAN REVIEW	DPC	PRE SLEEP	SLEEP

S B D	DPC		DPC			
	CGBA-PARAM-COMMAND				CGBA-PARAM-COMMAND	MAMS-STORED DATA-D/L
	PGBA-PARAM-COMMAND				PGBA-PARAM-COMMAND	PGBA-PARAM-COMMAND

K	CGBA-PARAM-COMMAND				CGBA-PARAM-COMMAND	MAMS-STORED DATA-D/L
	MAMS-STORED DATA-D/L					PGBA-PARAM-COMMAND
	PGBA-PARAM-COMMAND					

M C C						
-------------	--	--	--	--	--	--

P	PGBA-PROCESSNG-LIGHT					
	CGBA-PL-POWER					
	PCG STES-007-PWR					
	EXPRS1-SYS-PWR/THERM					
	EXPRS4-SYS-PWR/THERM					
	MAMS-P/L-NOM OPS					
	SAMS-ICU/D1-OPS					
	SAMS-RTS/D1-OPS					
	SAMS-RTS/D2-OPS					
	CGBA-PARAM-COMMAND				CGBA-PARAM-COMMAND	MAMS-STORED DATA-D/L
PGBA-SCIENCE-VIDEO				PGBA-SCIENCE-VIDEO	PGBA-PARAM-COMMAND	
MAMS-STORED DATA-D/L						
PGBA-PARAM-COMMAND						

ISS ATT		TEA
---------	--	-----

NOTES	
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FD01

FD02

GMT 11/10/02
 MET Day 000

		03	04	05	06	07	08	09	10	11	12	13	14	15		
STS - 113	CDR WETHERBEE	* NCI OMS BURN	G R P B	- Z L V	- X V V	PMC A/G	PRE SLEEP						SLEEP		DD SS 00 49 33	POST SLEEP
	PLT LOCKHART	OMS BURN	G R P B	A P H B T R	PRE SLEEP						SLEEP		DD SS 00 49 33	POST SLEEP		
	MS1 LOPEZ-ALEGRIA	O C A C	GIRA INSTALL	PRE SLEEP (GIRA)						SLEEP		DD SS 00 49 33	POST SLEEP (GIRA)			
	MS2 HERRINGTON	PGSC SETUP	T P E W P R C	PRE SLEEP						SLEEP		DD SS 00 49 33	POST SLEEP			
EXP - 6	ISS CDR BOWERSOX	GIRA INSTALL	PRE SLEEP						SLEEP				POST SLEEP			
	FE-1 BUDARIN	PRE SLEEP						SLEEP				POST SLEEP				
	FE-2 PETTIT	M D D K C K	PRE SLEEP						SLEEP				POST SLEEP			
DAY/NIGHT		[Day/Night Cycle]														
ORB ATT		[ORB ATT]														
ORBIT		[ORBIT]														
DAILY ORBIT		[DAILY ORBIT]														
TDRS		[TDRS]														
NOTES		*RMS INIT @LOAD DAPS *PRNTR SETUP														

FD01

FD02

MET		Day 000		03 04 05 06 07 08 09 10 11 12 13 14 15															
GMT		11/10/02		10 11 12 13 14 15 16 17 18 19 20 21															
I S S	DAY/NIGHT	[Bar chart showing day/night cycle]																	
	ORBIT																		
	DAILY ORBIT	8		9		10		11		12		13		14		15			
	TDRS KU																		
E X P - 5	ISS CDR KORZUN	SLEEP												POST SLEEP					
	FE-1 WHITSON	SLEEP												POST SLEEP					
	FE-2 TRESCHEV	SLEEP												POST SLEEP					
S B D K M C C																			
P	PGBA-PROCESSNG-LIGHT															PGBA-PROCESSNG-LIGHT			
	CGBA-PL-POWER																		
	PCG STES-007-PWR																		
	EXPRS1-SYS-PWR/THERM																		
	EXPRS4-SYS-PWR/THERM																		
	MAMS-P/L-NOM OPS																		
	SAMS-ICU/D1-OPS																		
SAMS-RTS/D1-OPS																			
SAMS-RTS/D2-OPS																			
PGBA-PROCESSNG-DARK															[Bar chart showing dark cycle]				
ISS ATT																TEA			
NOTES																			

CGBA-
PCG S
EXPRS
EXPRS
MAMS-
SAMS-
SAMS-
SAMS-
PGBA-

FD02

GMT 11/10/02 22 23 11/11 01 02 03 04 05 06 07 08 09
 MET Day 000 15 16 17 18 19 20 21 22 23 001/00 01 02 03

STS-113	CDR WETHERBEE	POST SLEEP	NC-2 OMS BURN	RMS HTR	ZLV		RPMSR UP	RMS C/O	RMS PLB SURVEY	RPMSR DN	CRYO 02 SNSR CK	MEAL	PSETT VU 07	MPC X MULT AXIS RCS BURN	OPSWR SUP	OSVS VIDEO C/O	OPSWR DN	EXERCISE	NC-3 OMS BURN	ZLV	MFNUT	PMCOCA	PRE SLEEP
	PLT LOCKHART	POST SLEEP	OMS BURN	PS//TU 17	PS//TU 06		EMU C/O PREP	EMU C/O		P/TV17 S/U		MEAL	P/TV19 CTR LINE CM	P/TV18 WVS S/U		EXERCISE	FILTER INSPECT	OMS BURN				PRE SLEEP	
	MS1 LOPEZ-ALEGRIA	POST SLEEP (GIRA)		P/TV17 S/U			EMU C/O PREP	EMU C/O		EMU PREP FOR XFER	PS//TU 17	P/TV02 S/U	MEAL	P/TV19 CTR LINE CM	ODS RING EXT	RNDZ PGSC S/U	RNDZ TOOLS C/O		EXERCISE			PRE SLEEP (GIRA)	
	MS2 HERRINGTON	POST SLEEP					EMU C/O PREP	EMU C/O		EMU PREP FOR XFER			MEAL	FUEL CELL MON	ODS RING EXT	RNDZ PGSC S/U	RNDZ TOOLS C/O		EXERCISE			PRE SLEEP	
EXP-6	ISS CDR BOWERSOX	POST SLEEP		ERGO SETUP			RPMSR UP	RMS C/O	RMS PLB SURVEY	RPMSR DN		MEAL	PEAVO ENT		EXERCISE							PRE SLEEP	
	FE-1 BUDARIN	POST SLEEP		ERGO SETUP		EXERCISE						MEAL	PEAVO ENT									PRE SLEEP	
	FE-2 PETTIT	POST SLEEP				EXERCISE						MEAL	PEAVO ENT									PRE SLEEP	
DAY/NIGHT		[Day/Night Cycle Bar]																					
ORB ATT		-ZLV -XVV																					
ORBIT		11 12 13 14 15 16 17 18																					
DAILY ORBIT		16 1 2 3 4 5 6 7																					
TDRS		W -171 E -47																					
NOTES		RMS HTR ACT/MCIU FILTER CK MANUAL																					

FD02

MET		Day 000													
GMT		11/10/02													
		15 16 17 18 19 20 21 22 23 001/00 01 02 03 04 05 06 07 08 09 03													
		22 23 11/11 01 02 03 04 05 06 07 08 09													
I S S	DAY/NIGHT	[Shaded]													
	ORBIT	[Shaded]													
E X P - 5	DAILY ORBIT	16	1	2	3	4	5	6	7						
	TDRS KU	[Shaded]													
E X P - 5	ISS CDR KORZUN	* DPC	PREP WORK	ISS MAINT				MEAL			DAILY PLAN REVIEW	DPC	PREP WORK	PRE SLEEP	
	FE-1 WHITSON	* DPC	PREP WORK	ISS MAINT				MEAL			⊕ DAILY PLAN REVIEW	DPC	PREP WORK	PRE SLEEP	
	FE-2 TRESCHEV	* DPC	PREP WORK	ISS MAINT				MEAL			DAILY PLAN REVIEW	DPC	PREP WORK	PRE SLEEP	
S B D	DPC	DPC												DPC	
	MAMS-STORED DATA-D/L CGBA-PARAM-COMMAND PGBA-PARAM-COMMAND	[Shaded]												MAMS-STORED DATA-D/L CGBA-PARAM-COMMAND PGBA-PARAM-COMMAND	IPGBA-PAR/
K	MAMS-STORED DATA-D/L CGBA-PARAM-COMMAND PGBA-PARAM-COMMAND	[Shaded]												MAMS-STORED DATA-D/L CGBA-PARAM-COMMAND PGBA-PARAM-COMMAND	IPGBA-PAR/
	CGBA-PL-POWER PCG STES-007-PWR EXPRS1-SYS-PWR/THERM EXPRS4-SYS-PWR/THERM MAMS-P/L-NOM OPS SAMS-ICU/D1-OPS SAMS-RTS/D1-OPS SAMS-RTS/D2-OPS PGBA-PROCESSNG-DARK PGBA-PROCESSNG-LIGHT PGBA-SCIENCE-VIDEO MAMS-STORED DATA-D/L CGBA-PARAM-COMMAND PGBA-PARAM-COMMAND	[Shaded]												IPGBA-PROCESSNG-DARK	IPGBA-SCIENCE-VIDEO MAMS-STORED DATA-D/L CGBA-PARAM-COMMAND PGBA-PARAM-COMMAND
P	ISS ATT	[Shaded]												TEA	
	NOTES	*POST SLEEP										⊕PAYLOAD STATUS CHECK			

FD02

FD03

GMT 11/11/02

MET Day 001

		03	04	05	06	07	08	09	10	11	12	13	14	15			
STS - 113	CDR WETHERBEE	PRE SLEEP		SLEEP									DD SS OO LL 4 9 3	PS OL SE ET	Future Mnvr EXERCISE	S I M I T	PS OL SE ET
	PLT LOCKHART	PRE SLEEP		SLEEP									DD SS OO LL 4 9 3	POST SLEEP	EXERCISE		
	MS1 LOPEZ-ALEGRIA	PRE SLEEP (GIRA)		SLEEP									DD SS OO LL 4 9 3	POST SLEEP (GIRA)			
	MS2 HERRINGTON	PRE SLEEP		SLEEP									DD SS OO LL 4 9 3	POST SLEEP			
EXP - 6	ISS CDR BOWERSOX	PRE SLEEP		SLEEP									POST SLEEP				
	FE-1 BUDARIN	PRE SLEEP		SLEEP									POST SLEEP				
	FE-2 PETTIT	PRE SLEEP		SLEEP									POST SLEEP				
DAY/NIGHT		[Shaded]		[Shaded]		[Shaded]		[Shaded]		[Shaded]		[Shaded]		[Shaded]			
ORB ATT		-ZLV -XVV															
ORBIT		19	20	21	22	23	24	25	26								
DAILY ORBIT		8	9	10	11	12	13	14	15								
TDRS		W -171 E -47															
NOTES																	

FD02

FD03

MET		Day 001		03 04 05 06 07 08 09 10 11 12 13 14 15														
GMT		11/11/02		10 11 12 13 14 15 16 17 18 19 20 21														
I S S	DAY/NIGHT	[Shaded bars indicating day/night cycle]																
	ORBIT	[Shaded bars indicating orbit cycle]																
	DAILY ORBIT	8	9	10	11	12	13	14	15									
TDRS		KU		[Shaded bars indicating TDRS/KU activity]														
E X P - 5	ISS CDR KORZUN	PRE SLEEP	SLEEP											POST SLEEP	DPC	PREP WORK	*	
	FE-1 WHITSON	PRE SLEEP	SLEEP											POST SLEEP	DPC	PREP WORK	⊕	
	FE-2 TRESCHEV	PRE SLEEP	SLEEP											POST SLEEP	DPC	PREP WORK		
S B D	EPS-PCU-ACT	EPS-PCU-ACT																
	ACS-GNC-PPL-U/D DPC	ACS-GNC-PPL-U/D DPC																
K																		
M C C																		
P	CGBA-PL-POWER																	
	PCG STES-007-PWR																	
	EXPRS1-SYS-PWR/THERM																	
	EXPRS4-SYS-PWR/THERM																	
	MAMS-P/L-NOM OPS																	
	SAMS-ICU/D1-OPS																	
	SAMS-RTS/D1-OPS																	
SAMS-RTS/D2-OPS																		
PGBA-PROCESSNG-LIGHT												PGBA-PROCESSNG-LIGHT						
PGBA-PROCESSNG-DARK																		
ISS ATT		TEA																
NOTES																		

CGBA-
PCG S
EXPRS
EXPRS
MAMS-
SAMS-
SAMS-
SAMS-
PGBA-

*IMS-COM
⊕EVARM-F
⬢EVARM

FD03

GMT 11/11/02
 MET Day 001
 15 22 16 23 17 11/12 18 19 02 20 03 21 04 22 05 23 06 002/00 07 01 08 02 09 03

STS-113	CDR WETHERBEE	POST SLEEP	STIEZLVM	GRPRUP	ISS RNDZ OPS				APPROACH T/L	RMSHTR	XLV	GPWRDN	HATCH OPEN	SBAFEEFY	CFG P/B W/ STS 02	P1 INST PREP P/TV22	RMSRUP	EVA 1 PROC REVIEW	PS RLEEP			
	PLT LOCKHART	POST SLEEP		GRPRUP	ISS RNDZ OPS				APPROACH T/L	AUSDSIO		GPWRDN	P/TV21 OPS	SBAFEEFY	TRANSFER	E/L PREP	VIDPB	EVA 1 PROC REVIEW	PRE SLEEP			
	MS1 LOPEZ-ALEGRIA	POST SLEEP (GIRA)		EXERCISE	ERMEMOVAL	PS/TV21	P/TV20 SETUP (DOCK)	ISS RNDZ OPS		APPROACH T/L		ODS PREP FOR INGR	POST RNDZ PGSC CFG	SBAFEEFY	EMU XFER	REBA	RC/BO I/F CK	EMU TO A/L	XBFRREF	EVA 1 PROC REVIEW	ETC VOONLFI G	
	MS2 HERRINGTON	EXERCISE		CWC COND S/U & FILL	ISS RNDZ OPS				APPROACH T/L	HATCH LEAK CK		ODS PREP FOR INGR	POST RNDZ PGSC CFG	SBAFEEFY	EMU XFER	REBA	RC/BO I/F CK	EMU TO A/L	EVA CAM S/U	EVA 1 PROC REVIEW	ETC VOONLFI G	
EXP-6	ISS CDR BOWERSOX	POST SLEEP		EXERCISE	ISS RNDZ OPS				APPROACH T/L	AUSDSIO		HATCH OPEN	SBAFEEFY	CFG P/B W/ STS 02	P1 INST PREP P/TV22	AVU H/D SWAP		DAILY PLAN REVIEW	DPC *			
	FE-1 BUDARIN	POST SLEEP		ISS RNDZ OPS	EXERCISE				APPROACH T/L				SBAFEEFY	TRANSFER				DAILY PLAN REVIEW	DPC *			
	FE-2 PETTIT	POST SLEEP	MDDCK	ISS RNDZ OPS	EXERCISE				APPROACH T/L				SBAFEEFY	TRANSFER				MDDCK	DAILY PLAN REVIEW	DPC *		
DAY/NIGHT		[Shaded bars indicating day/night cycle]																				
ORB ATT		[Shaded bars indicating orb att]																				
ORBIT		RNDZ																				
DAILY ORBIT		26	27	28	29	30	31	32	33	34									BIAS -XLV +ZVV			
TDRS		W -171	1	2	3	4	5	6	7	8												
E -47		15	1	2	3	4	5	6	7	8												
NOTES		RMSLHIB ACT/MCIU FILTER CK *INSTALL *PREP h * ISS RETRIEVAL 1/21:18																				

FD03

MET	Day 001	15	16	17	18	19	20	21	22	23	002/00	01	02	03	04	05	06	07	08	09	03	
GMT	11/11/02	22	23	11/12	01	02	03	04	05	06	07	08	09									
ISS	DAY/NIGHT	[Shaded Day/Night Cycle]																				
	ORBIT	[Shaded Orbit Cycle]																				
S	DAILY ORBIT	15	1	2	3	4	5	6	7	8												
	TDRS KU	[Shaded TDRS KU Cycle]																				
EXP-5	ISS CDR KORZUN		ODHT-TRNG	EXERCISE-TVIS+RED			COGC AK 1M SMPL	MEAL	PMA2 ARR		HATCH LEAK CK ISS	HATCH OPEN	⊕	CFG P/B W/ STS 02	E/L PREP	EVA 1 PROC REVIEW						
	FE-1 WHITSON	Ⓢ			EXERCISE TVIS		EXERCISE RED	MEAL	PMA2 ARR		HATCH LEAK CK ISS	HATCH OPEN	⊕	TRANSFER	P1 INST PREP P/TV22	AVU H/D SWAP	P S L T A T	DAILY PLAN REVIEW	DPC	⊕		
	FE-2 TRESCHEV		ODHT-TRNG	COGC БМП Ⓢ1 MNT		COЖ-MNT	EXERCISE VELO	P S T U V	MEAL	P/TV OPS				⊕	TRANSFER	EXERCISE TVIS		DAILY PLAN REVIEW	DPC	⊕		
P	CGBA-PL-POWER	ICGBA-PL-POWER																				
	PCG STES-007-PWR																					
	EXPRS1-SYS-PWR/THERM																					
	EXPRS4-SYS-PWR/THERM																					
	MAMS-P/L-NOM OPS																					
	SAMS-ICU/D1-OPS																					
	SAMS-RTS/D1-OPS																					
SAMS-RTS/D2-OPS																						
PGBA-PROCESSNG-DARK	IPGBA-PROCESSNG-DARK																					
PGBA-PROCESSNG-LIGHT	IPGBA-PROCESSNG-LIGHT																					
CPO/PRO-CGBA-CMD	ICPO/PRO-CGBA-CMD																					
CPO/PRO-PGBA-CMD	ICPO/PRO-PGBA-CMD																					
PGBA-SCIENCE-VIDEO	IPGBA-SCIENCE-VIDEO																					
MAMS-STORED DATA-D/L	MAMS-STORED DATA-D/L																					
ISS ATT	TEA	RNDZ				FREE		TEA														
NOTES	ⓈEVARM-BDG-PRE 1 READ ▼CDRA ACT SUPPORT ▲C&T-CMM-CNFG-VRFY-1B ▲COGC SMPL ⊕SAFETY BRIEF ▲C&T-VDS-SHUTTLE-CNFG ◆COGC M ⊕PREP W																					

FD03

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

GMT 11/11/02 22 23 11/12 01 02 03 04 05 06 07 08 09 03

ISS DAY/NIGHT ORBIT DAILY ORBIT 15 1 2 3 4 5 6 7 8

ACCS-CCDB PARAM-U/D
C&T-UHF-1-ACT
C&T-AUDIO-CNFG
C&T-VIDEO-CNFG
C&T-CMM-CNFG-VRFY-1B
C&T-ETVCG-ACT
C&DH-INH VALID-CK
C&T-CVIU-P/U
MSS-P/U
ISS-EPS-DOCK CNFG
ACS-PRE-ARVL-CNFG
C&T-VIDEO-ROUTE
C&T-ETVCG-SCENE-VRFY
ACS-ATT-CCDB-INC
C&T-KU MASK-ENA
VTR-ACT
PPS-SA-FTHR
C&T-VTR-RECORD
PMA2 ARR
C&T-KU MASK-DISABLE
C&DH-DOCK-CNFG
ACS-POST-ARVL-CNFG
C&T-CMM-CNFG-VRFY-3B
PPS-SA UNFEATHER-2B
PPS-SA UNFEATHER-4B
ACS-NAV-PARAM-U/D
ACS-STG/CMG ATT-H/O
ACS-MOM MGMT-ACT
LTL STPT CHNG
MSS-P/D
CDRA ACT
VTR-DEACT
ACS-GPS-SHUTDOWN
ISS-EPS-NOM CNFG
ACS-GPS-START UP
ACS-GNC-PPL-U/D
EMU-TO A/L I/F-CK
MAMS-STORED DATA-D/L
DPC

IC&S-CCDB PARAM-U/D
IC&T-UHF-1-ACT
IC&T-AUDIO-CNFG
IC&T-VIDEO-CNFG
IC&T-VIDEO-CNFG
IC&T-CMM-CNFG-VRFY-1B
IC&T-ETVCG-ACT
IC&DH-INH VALID-CK
IC&T-CVIU-P/U
MSS-P/U
ISS-EPS-DOCK CNFG
IC&T-VIDEO-ROUTE IC&T-VIDEO-ROUTE
IC&T-ETVCG-SCENE-VRFY
IC&T-ETVCG-SCENE-VRFY
ACS-ATT-CCDB-INC
IC&S-ATT-CCDB-INC
IC&T-KU MASK-ENA
IVTR-ACT
IPPS-SA-FTHR
C&T-VTR-RECORD
IPMA2 ARR
IC&T-KU MASK-DISABLE
IC&DH-DOCK-CNFG
IC&S-POST-ARVL-CNFG
IC&T-CMM-CNFG-VRFY-3B
IPPS-SA UNFEATHER-2B
IPPS-SA UNFEATHER-4B
IC&S-NAV-PARAM-U/D
IC&S-STG/CMG ATT-H/O
IC&S-MOM MGMT-ACT
ILTL STPT CHNG
MSS-P/D
ICDRA ACT
IVTR-DEACT
IC&S-GPS-SHUTDOWN
ISS-EPS-NOM CNFG
IC&S-GPS-START UP
IC&S-GNC-PPL-U/D
EMU-TO A/L I/F-CK
MAMS-STORED DATA-C
DPC

K C&T-ETVCG-ACT IC&T-ETVCG-ACT
C&T-ETVCG-SCENE-VRFY IC&T-ETVCG-SCENE-VRFY
MAMS-STORED DATA-D/L MAMS-STORED DATA-D

S/R C-COCB-CHTP CM-ΦГБ IC-COCB-CHTP CM-ΦГБ
ISS-MODE PROX-XTION IC-ISS-MODE PROX-XTION
СУДН-ОГНИ-ОН IC-СУДН-ОГНИ-ОН
C-COCB-FTHR IC-COCB-FTHR
Φ-COCB-FTHR Φ-COCB-FTHR
ISS-MODE STND-XTION IC-ISS-MODE STND-XTION
C3П-АБ-PARTIAL CHRГ IC-C3П-АБ-PARTIAL CHRГ

ISS ATT TEA RNDZ FREE TEA

ISS TDRS S AVAIL

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FD03

FD04

GMT 11/12/02

MET Day 002

		03	04	05	06	07	08	09	10	11	12	13	14	15
STS - 113	CDR WETHERBEE	PS RL EE E OCA	PRE SLEEP					OSVS SLEEP						
	PLT LOCKHART		PRE SLEEP					SLEEP						
	MS1 LOPEZ-ALEGRIA	ETC VOO AON LF IG	PRE SLEEP (GIRA)					SLEEP						
	MS2 HERRINGTON	ETC VOO AON LF IG	PRE SLEEP					SLEEP						
EXP - 6	ISS CDR BOWERSOX	PREP WORK	PRE SLEEP					SLEEP						
	FE-1 BUDARIN	PREP WORK	PRE SLEEP					SLEEP						
	FE-2 PETTIT	PREP WORK	PRE SLEEP					SLEEP						
DAY/NIGHT		[Bar chart showing day/night cycle]												
ORB ATT		BIAS -XLV +ZVV												
ORBIT		34	35	36	37	38	39	40	41	42				
DAILY ORBIT		8	9	10	11	12	13	14	15	16				
TDRS		[Bar chart showing TDRS events]												
W -171 E -47		[Bar chart showing W/E events]												
NOTES														

FD03

FD04

MET Day 002 03 10 04 11 05 12 06 13 07 14 08 15 09 16 10 17 11 18 12 19 13 20 14 21 15

ISS	DAY/NIGHT	[Shaded blocks representing day/night cycle]													
	ORBIT	[Shaded blocks representing orbit cycle]													
	DAILY ORBIT	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	TDRS KU	[Shaded blocks representing TDRS KU usage]													

EXP-5	ISS CDR KORZUN	COGC ИПД SMPL	PRE SLEEP	SLEEP										POST SLEEP
	FE-1 WHITSON	PREP WORK	PRE SLEEP	SLEEP										POST SLEEP
	FE-2 TRESCHEV	PREP WORK	PRE SLEEP	SLEEP										POST SLEEP

SBD	S-BD-KEY-CHG SOP1 PREP FOR MATE A/L-MTL-FLOW-ADJUST1 ISS EVA-COMM-CNFG MSS PWRUP C&T-VIDEO CNFG A/L-10.2 PSI OP-INIT P1 ACT.S0/S1 PWR	HS-BD-KEY-CHG										SOP1 PREP FOR MATE				A/L-MTL-FLOW-ADJUST1	ISS EVA-COMM-CNFG	MSS PWR	C&T-VIDEO CNFG	A/L-10.2 PS	P1 AC
	KU																				

M&C	SOP1 PREP FOR MATE	SOP1 PREP FOR MATE										SOP1 PREP FOR MATE							
	PCG STES-007-PWR EXPRS1-SYS-PWR/THERM EXPRS4-SYS-PWR/THERM MAMS-P/L-NOM OPS SAMS-ICU/D1-OPS SAMS-RTS/D1-OPS SAMS-RTS/D2-OPS																		

P	ISS ATT	TEA																	
	NOTES																		

*PWRDN

FD04

GMT 11/12/02

MET Day 002

		15	16	17	18	19	20	21	22	23	003/00	01	02	03	04	05	06	07	08	09						
STS-113	R1 CDR WETHERBEE	GRPLP1	RMS S/U & PRLA	RH MOV S/LOR	RTI SLT	HPA1 AND OFF	OP SWR SUP	REL EASE	POS V/U	OSVS P1 S/U	PEV TA VS 2/3 U	EVA INH PAD	DAPS	OP SWR SDN IT	RMS SUPPORT EVA1	EXERCISE	RMS SUPPORT EVA1	RP MWR SR DN	FEV SAC COM	PC RL LO ASE						
	IV1 PLT LOCKHART	LEH	EVA PREP W/ STS 02					1R 4.P 7R	EMU PRE BREATHE	C/L DEPR	IVA SUPPORT EVA 1										POST EVA W/O H20					
	EV1 MS1 LOPEZ-ALEGRIA	LEH	EVA PREP W/ STS 02					EP MUR GE	EMU PRE BREATHE	C/L DEPR	EGRESS	SORTIE SETUP	P1/SO NADIR TRAY	FHRC SPDS	STINGER SPDS	DRAG LINKS	P1/SO ZENITH TRAY	NODE WETA/WETSA	SCOL RETAIN EU P	INGRESS	POST EVA W/O H20					
	EV2 MS2 HERRINGTON	LEH	EVA PREP W/ STS 02					EP MUR GE	EMU PRE BREATHE	C/L DEPR	EGRESS	SORTIE SETUP	CETA CT LAUNCH LOCKS			DRAG LINKS	CETA CT LAUNCH LOCKS	NODE WETA/WETSA	SCOL RETAIN EU P	INGRESS	POST EVA W/O H20					
EXP-6	R2\M2\M1 ISS CDR BOWERSOX	GRPLP1	RMS S/U & PRLA	RH MOV S/LOR	RTI SLT	HPA1 AND OFF	REL EASE	SSRMS P1 MNVR	SSAS	MNVR TO RTL	1ST CAP	2ND CAP	SSAS NORMAL MATE	UN GRPL	SSRMS MNVR	P D G F	MEAL	H/O	CEVIS	P D G F 3	MBS MNVR	OFF DUTY	DAILY PLAN REVIEW	PREP WORK	DPC	
	FE-1 BUDARIN	DPC	PREP WORK	MDDK STAT	EXERCISE RED		COX-MNT	H/O						MEAL	H/O	DAILY PLAN REVIEW		PREP WORK	DPC							
	M2 FE-2 PETTIT	GM RPNL	P1 UNBERTH MON	HPA1 AND OFF	H AND OFF	UN GRPL	SSRMS P1 MNVR MON	SSAS	MNVR RTL MON	1ST CAP	2ND CAP	SSAS NORMAL MATE	UN GRPL	SSRMS MNVR MON	P D G F	MEAL	OFF DUTY	EXERCISE RED	MBS MNVR	OFF DUTY	DAILY PLAN REVIEW	PREP WORK	DPC			
DAY/NIGHT		[Pattern of Day/Night bars]																								
ORB ATT		BIAS -XLV +ZVV																								
ORBIT		42	43	44	45	46	47	48	49	50																
DAILY ORBIT		16	1	2	3	4	5	6	7	8																
TDRS		W -171	[TDRS bars]																				E -47			
NOTES		* 10.2 DEPRESS															⊕CBO-INSPECT					⊕CFO-CN-INSPECT			*MDDK STAT	

FD04

MET Day 002 15 16 17 18 19 20 21 22 23 003/00 01 02 09
 GMT 11/12/02 22 23 11/13 01 02 03 04 05 06 07 08 09

ISS	DAY/NIGHT								
	ORBIT								
	DAILY ORBIT	16	1	2	3	4	5	6	7
TDRS	CU								

EXP-5	IV2 ISS CDR KORZUN	DPC	EVA PREP W/ STS 02				EMU PRE BREATHE	C/L DEPR	EXERCISE-TVIS+RED		MEAL	H/O	DAILY PLAN REVIEW	EXERCISE TVIS	PREP WORK	PRE SLEEP	PEWH OV/2 SADO T
	FE-1 WHITSON	GMPNL	P1 UNBERTH MON	SSRMS P1 MNVR	MNVR TO RTL	SSAS NORMAL MATE MON	UNR PL	SSRMS MNVR	P D G F	MEAL	H/O	DAILY PLAN REVIEW	PREP WORK	EXERCISE TVIS		DPC	
	FE-2 TRESCHEV	DPC	PREP WORK	EXERCISE TVIS		H/O		MEAL		H/O	IMS FILE PREP	EXERCISE RED	DAILY PLAN REVIEW	PREP WORK	DPC		

DSC	A/L-10.2 PSI OP-INIT	A/L-10.2 PSI OP-INIT														
	ISS-RAP DPRS-INH	ISS-RAP DPRS-INH														
DSC	A/L-LTL-FLOW-INIT	A/L-LTL-FLOW-INIT														
	ISS-RAP DPRS-ENA	ISS-RAP DPRS-ENA														
DSC	EVA INHIBIT PAD	EVA INHIBIT PAD														
	ACS MP PPL - INCORP	ACS MP PPL - INCORP														
DSC	A/L-10.2 OPS-TERM	A/L-10.2 OPS-TERM														
	NADIR TRAY PREP	NADIR TRAY PREP														
DSC	SSAS NORMAL MATE	SSAS NORMAL MATE														
	NADIR TRAY RECOVERY	NADIR TRAY RECOVERY														
DSC	A/L-LTL-FLOW-TERM	A/L-LTL-FLOW-TERM														
	ZENITH TRAY PREP	ZENITH TRAY PREP														
DSC	SSRMS PWRUP	SSRMS PWRUP														
	ZENITH TRAY RECOVER	ZENITH TRAY RECOVER														
DSC	PIP3 HEATER C/O	PIP3 HEATER C/O														
	VCSA WETA HTR ACT	VCSA WETA HTR ACT														
DSC	MSS-PWRDN	MSS-PWRDN														
	MAMS-STORED DATA-D/L	MAMS-STORED DATA-D/L														
DSC	ISS EVA-COMM-DECNEG	ISS EVA-COMM-DECNEG														
	PCG STES-007-PWR	PCG STES-007-PWR														
DSC	EXPRS1-SYS-PWR/THERM	EXPRS1-SYS-PWR/THERM														
	EXPRS4-SYS-PWR/THERM	EXPRS4-SYS-PWR/THERM														
DSC	MAMS-P/L-NOM OPS	MAMS-P/L-NOM OPS														
	SAMS-ICU/D1-OPS	SAMS-ICU/D1-OPS														
DSC	SAMS-RTS/D1-OPS	SAMS-RTS/D1-OPS														
	SAMS-RTS/D2-OPS	SAMS-RTS/D2-OPS														
DSC	MAMS-STORED DATA-D/L	MAMS-STORED DATA-D/L														

ISS ATT	+XVV +ZLV															
---------	-----------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES	♦HANDOFF P1 MON	♦EMU PURGE	MCC	*PWRDN	⊙LAB PL	*PWRDN
	⊙HANDOFF	Δ1ST CAP MON	Bolting			
	♦UNGRPL	♦2ND CAP	Cleanup			
	♦COFC-5MP-02-MNT	⊙BRAKES	Steps			
		*VERIFY CONFIG X				

FD04

FD05

GMT 11/13/02

MET Day 003

		03 10 04 11 05 12 06 13 07 14 08 15 09 16 10 17 11 18 12 19 20 14 21 15														
S T S - 1 1 3	CDR WETHERBEE	PRE SLEEP	PMCA/G	PRE SLEEP	OSVS SLEEP										DDSS 00493	POST SLEEP
	PLT LOCKHART	POST EVA W/O H2O	PSA	PRE SLEEP	SLEEP										DDSS 00493	POST SLEEP
	MS1 LOPEZ-ALEGRIA	POST EVA W/O H2O	BSA	PRE SLEEP (GIRA)	SLEEP										DDSS 00493	POST SLEEP (GIRA)
	MS2 HERRINGTON	POST EVA W/O H2O	BSA	PRE SLEEP	SLEEP										DDSS 00493	POST SLEEP
E X P - 6	ISS CDR BOWERSOX	PRE SLEEP		SLEEP											POST SLEEP	
	FE-1 BUDARIN	PRE SLEEP		SLEEP											POST SLEEP	
	FE-2 PETTIT	PRE SLEEP		SLEEP											POST SLEEP	
DAY/NIGHT																
ORB ATT																
ORBIT		50	51	52	53	54	55	56	57	58	BIAS -XLV +ZVV					
DAILY ORBIT		8	9	10	11	12	13	14	15	16						
TDRS																
W -171 E -47																
NOTES																

FD04

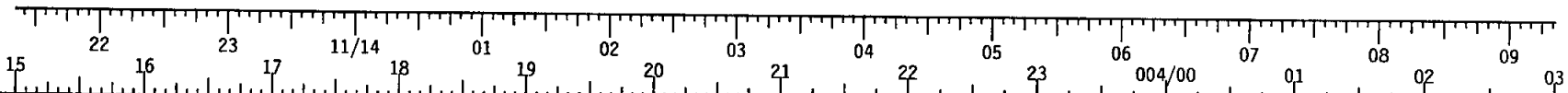
FD05

MET		Day 003		03 04 05 06 07 08 09 10 11 12 13 14 15											
GMT		11/13/02		10 11 12 13 14 15 16 17 18 19 20 21											
I S S	DAY/NIGHT	[Shaded bars indicating day/night cycle]													
	ORBIT	[Shaded bars indicating orbit cycle]													
S	DAILY ORBIT	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	TDRS KU	[Shaded bars indicating TDRS KU activity]													
E X P - 5	ISS CDR KORZUN	POST EVA W/O H2O	PRE SLEEP	SLEEP										POST SLEEP	
	FE-1 WHITSON		PRE SLEEP	SLEEP										POST SLEEP	
	FE-2 TRESCHEV	*C *O *N	PRE SLEEP	SLEEP										POST SLEEP	
S B D	A/L-LTL-FLOW-TERM	HA/L-LTL-FLOW-TERM													
	TCS-LOOP BUMP-TST TCS-GPRV-C/O	TCS-LOOP BUMP-TST TCS-GPRV-C/O													
K C	TCS-LOOP BUMP-TST TCS-GPRV-C/O	TCS-LOOP BUMP-TST TCS-GPRV-C/O													
	PCG STES-007-PWR EXPRS1-SYS-PWR/THERM EXPRS4-SYS-PWR/THERM MAMS-P/L-NOM OPS SAMS-ICU/D1-OPS SAMS-RTS/D1-OPS SAMS-RTS/D2-OPS	[Detailed activity bars for PCG, EXPRS, MAMS, SAMS]													
ISS ATT		TEA													
NOTES		*PRE SLEEP *VERIFY CONFIG X													

PCG S
EXPRS
EXPRS
MAMS-
SAMS-
SAMS-
SAMS-

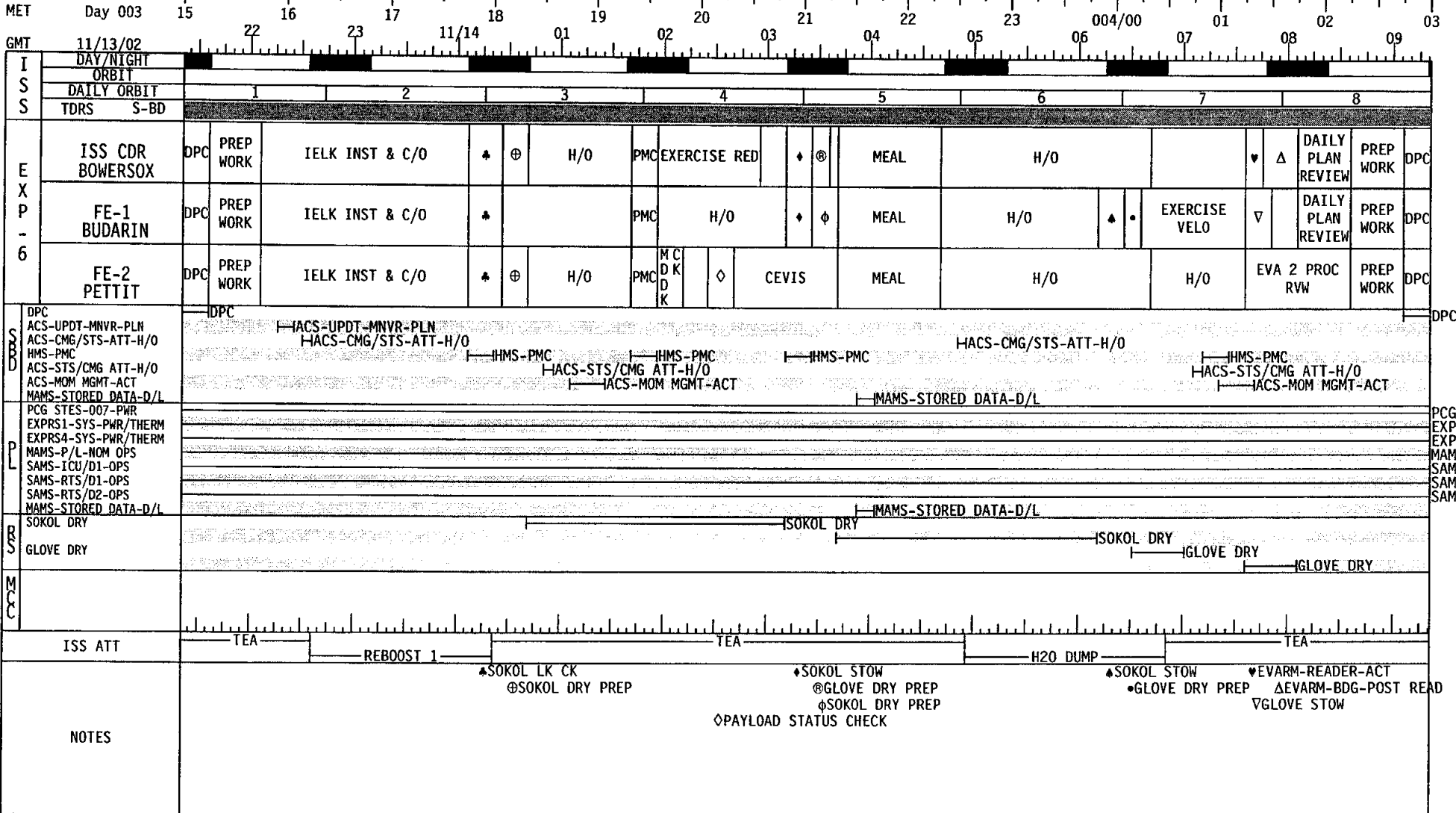
FD05

GMT 11/13/02
MET Day 003



STS-113	CDR WETHERBEE	POST SLEEP	IL OFFIT	BIAS +ZLV +XVV	REBOOST CONFIG 4	-XLV +ZVV	H/O ATT	RCS REG	HTR CFG	PEVENT	CABIN	N2 XFER INIT	MEAL	-OXYLVV	+SPNLIYT	PWR DUMP (3)	STEXLRM	-XZLVV	H/O ATT	EVA 2 PROC RVW	PMC A/G	PRE SLEEP		
	PLT LOCKHART	POST SLEEP	PS//TV 25	H2O CWC S/U FILL #1	EXERCISE	CTWRM	FILTER INSPECT	PS//TV 02	PEVENT	MC	N2 XFER INIT	MEAL	TRANSFER				PWR FILL (2)	EVA 2 PROC RVW	PRE SLEEP					
	MS1 LOPEZ-ALEGRIA	POST SLEEP (GIRA)	EVA TOOL CONFIG	LIOH	BSA-T	H2O RCHG	E/L PREP	TRANSFER	PEVENT	TRANSFER	MEAL	EMBM EATT OX	XFER	EXERCISE	XFER	XBFR EEF	EVA 2 PROC RVW	PRE SLEEP (GIRA)						
	MS2 HERRINGTON	POST SLEEP	EVA TOOL CONFIG	LIOH	BSA-T	H2O RCHG	E/L PREP	EXERCISE	PEVENT	TRANSFER	MEAL	EVA CAM S/U	TRANSFER				EVA 2 PROC RVW	PRE SLEEP						
EXP-5	ISS CDR KORZUN	DPC	PREP WORK	IELK INST & C/O		COX-MNT	EXERCISE TVIS	H/O	PMC	MEAL	H/O	EXERCISE RED	EVA 2 PROC RVW	PREP WORK	DPC									
	FE-1 WHITSON	DPC	PREP WORK	IELK INST & C/O		PMC	H/O	EXERCISE TVIS	MEAL	H/O	H/O	MDD KCK	DAILY PLAN REVIEW	PREP WORK	DPC									
	FE-2 TRESCHEV	DPC	PREP WORK	IELK INST & C/O		EXERCISE-TVIS+RED	RUSSIAN P/L OPS	MEAL	H/O	EXERCISE TVIS	PMC	IMS FILE PREP	DAILY PLAN REVIEW	PREP WORK	DPC									
DAY/NIGHT																								
ORB ATT																								
ORBIT																								
DAILY ORBIT																								
TDRS																								
NOTES																								

FD05

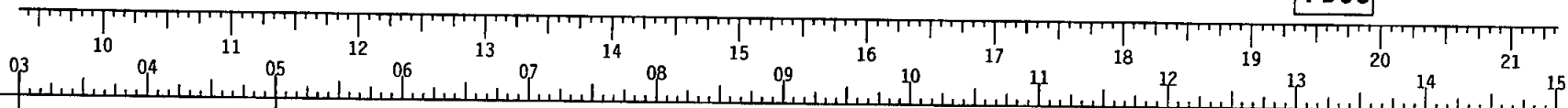


FD05

FD06

GMT 11/14/02

MET Day 004



S T S - 1 1 3	CDR WETHERBEE	PRE SLEEP	SLEEP	POST SLEEP						
	PLT LOCKHART	PRE SLEEP	SLEEP	POST SLEEP	EVA PREP W/ STS 02					
	MS1 LOPEZ-ALEGRIA	PRE SLEEP (GIRA)	SLEEP	POST SLEEP (GIRA)	EVA PREP W/ STS 02					
	MS2 HERRINGTON	PRE SLEEP	SLEEP	POST SLEEP	EVA PREP W/ STS 02					
E X P - 5	ISS CDR KORZUN	PRE SLEEP	SLEEP	POST SLEEP	EVA PREP W/ STS 02					
	FE-1 WHITSON	PRE SLEEP	SLEEP	POST SLEEP						
	FE-2 TRESCHEV	PRE SLEEP	SLEEP	POST SLEEP						
DAY/NIGHT		[Bar chart showing day/night cycle]								
ORB ATT		[Bar chart showing orbit attachment]								
ORBIT		BIAS -XLV +ZVV								
DAILY ORBIT		8	9	10	11	12	13	14	15	1
TDRS		[Bar chart showing TDRS activity]								
W -171		[Bar chart showing W-171 activity]								
E -47		[Bar chart showing E-47 activity]								
NOTES										

FD05

FD06

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

I S S	DAY/NIGHT	[Shaded bars indicating day/night cycle]														
	ORBIT	[Shaded bars indicating orbit cycle]														
	DAILY ORBIT	8	9	10	11	12	13	14	15	1						
	TDRS S-BD	[Shaded bars indicating TDRS S-BD]														

E X P - 6	ISS CDR BOWERSOX	PRE SLEEP	SLEEP										POST SLEEP	
	FE-1 BUDARIN	PRE SLEEP	SLEEP										POST SLEEP	
	FE-2 PETTIT	PRE SLEEP	SLEEP										POST SLEEP	EVA PREP OJT

P	PCG STES-007-PWR															
	EXPRS1-SYS-PWR/THERM															
	EXPRS4-SYS-PWR/THERM															
	MAMS-P/L-NOM OPS															
	SAMS-ICU/D1-OPS															
SAMS-RTS/D1-OPS																
SAMS-RTS/D2-OPS																

R																
M																
C																

ISS ATT TEA

NOTES

PCG S
EXPRS
MAMS-
SAMS-
SAMS-

FD06

GMT 11/14/02 15 22 16 23 17 11/15 18 01 19 02 20 03 21 04 22 05 23 06 005/00 07 01 08 02 09 03
 MET Day 004

STS-113	R1 CDR WETHERBEE	PMC A/G	POST SLEEP	EXERCISE	EVA INH PAD	MCSU CHK	P/TV23 EVA S/U	P/TV23 EVA OPS						CWC COND C/O	EVA COM	PRE SLEEP	PRE SLEEP	PMC A/G		
	IV1 PLT LOCKHART	*	EVA PREP W/ STS 02		1R 4E 7R	EMU PRE BREATHE	C/L DEPR	IVA SUPPORT EVA 2						PREP	POST EVA W/O H2O	PSA	PSL EEP			
	EV1 MS1 LOPEZ-ALEGRIA		EVA PREP W/ STS 02		EMURGE	EMU PRE BREATHE	C/L DEPR	DEPRESS	SORTIE SETUP	P1/SO FLUID JUMPERS	STBD KEEL PIN	WETA P1	PORT KEEL PIN	CETA RELOCATE	SORTIE CLEAN	INGRESS	PREP	POST EVA W/O H2O	BSA	PSL EEP
	EV2 MS2 HERRINGTON		EVA PREP W/ STS 02		EMURGE	EMU PRE BREATHE	C/L DEPR	DEPRESS	SORTIE SETUP	P1/SO FLUID JUMPERS	STBD KEEL PIN	WETA	CR LT AL MP	PORT KEEL PIN	CETA RELOCATE	SORTIE CLEAN	INGRESS	PREP	POST EVA W/O H2O	BSA
EXP-5	IV2 ISS CDR KORZUN		EVA PREP W/ STS 02		EMURGE	EMU PRE BREATHE	C/L DEPR	DEPRESS	EXERCISE TVIS	MEAL	OFF DUTY		EXERCISE-TVIS+RED		DAILY PLAN REVIEW	PREP WORK	POST EVA W/H2O & MTX		DPC	
	M2 FE-1 WHITSON	DPC	PREP WORK	MS DT DA KT	H/O		EXERCISE TVIS		H/O	MEAL	SSRMS MNVR TO CETA	SSRMS SUPPORT EVA2			SSRMS MNVR	OFF DUTY	MD DK CK	DAILY PLAN REVIEW	PREP WORK	DPC
	FE-2 TRESCHEV	DPC	PREP WORK	EXERCISE-TVIS+RED			H3-HDTV-MO		MEAL	H/O			EXERCISE TVIS		DAILY PLAN REVIEW	PREP WORK	DPC			
DAY/NIGHT		[Day/Night Cycle]																		
ORB ATT		[Orbit Attenuation]																		
ORBIT		[Orbit Parameters]																		
DAILY ORBIT		[Daily Orbit Parameters]																		
TDRS		[TDRS Schedule]																		
NOTES		* 10.2 DEPRESS																		

FD06

MET Day 004 15 16 17 18 19 20 21 22 23 005/00 01 02 03

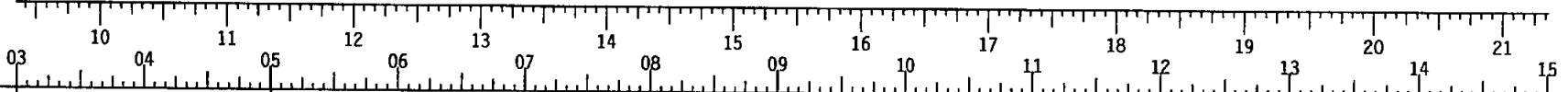
GMT 11/14/02 22 23 11/15 01 02 03 04 05 06 07 08 09

I S S	DAY/NIGHT ORBIT																
	DAILY ORBIT																
	TDRS	S-BD	1	2	3	4	5	6	7	8	9						
E X P - 6	M1 ISS CDR BOWERSOX	DPC	PREP WORK	H/O	CEVIS	TVIS HANDOVER	H/O	MEAL		SSRMS SUPPORT EVA2	SSRMS MNVN	OFF DUTY	PMC	DAILY PLAN REVIEW	PREP WORK	DPC	
	FE-1 BUDARIN	DPC	PREP WORK	COX-MNT	EXERCISE RED		H3-HDTV-MO	MEAL	RUSSIAN P/L OPS		IMS FILE PREP		PMC	DAILY PLAN REVIEW	PREP WORK	DPC	
	FE-2 PETTIT			EVA PREP OJT		OFF DUTY	H/O	MEAL	SSRMS MNVN TO CETA	OFF DUTY	H/O	P S T A T	EXERCISE RED	PMC	DAILY PLAN REVIEW	PREP WORK	DPC
S D	DPC SSAS ACT WETA ACT & C/O SSRMS POWERUP WETA 2 INST HTR ACT MAMS-STORED DATA-D/L CCAA RECONFIG P1 ENGAGE DRIVE MECH HMS-PMC P1P3 SSAS C/O SSAS DEACT	DPC SSAS ACT WETA ACT & C/O SSRMS POWERUP															
	PCG STES-007-PWR EXPRS1-SYS-PWR/THERM EXPRS4-SYS-PWR/THERM MAMS-P/L-NOM OPS SAMS-ICU/D1-OPS SAMS-RTS/D1-OPS SAMS-RTS/D2-OPS MAMS-STORED DATA-D/L																
P L																	
S D																	
C M	SSAS ACT WETA ACT & C/O WETA 2 INST HTR ACT P1 ENGAGE DRIVE MECH SSAS DEACT	SSAS ACT WETA ACT & C/O															
	ISS ATT																
	NOTES			*POWERUP													

FD06

FD07

GMT 11/15/02
MET Day 005



S T S - 1 1 3	CDR WETHERBEE	PRE SLEEP	SLEEP	0300 0400 0430 0500 0530 0600 0630 0700	POST SLEEP					
	PLT LOCKHART	PRE SLEEP	SLEEP	0300 0400 0430 0500 0530 0600 0630 0700	POST SLEEP					
	MS1 LOPEZ-ALEGRIA	PRE SLEEP	SLEEP	0300 0400 0430 0500 0530 0600 0630 0700	POST SLEEP (GIRA)					
	MS2 HERRINGTON	PRE SLEEP	SLEEP	0300 0400 0430 0500 0530 0600 0630 0700	POST SLEEP					
E X P - 5	ISS CDR KORZUN	PRE SLEEP	SLEEP		POST SLEEP					
	FE-1 WHITSON	PRE SLEEP	SLEEP		POST SLEEP					
	FE-2 TRESCHEV	PRE SLEEP	SLEEP		POST SLEEP					
DAY/NIGHT		[Day/Night Cycle: Day (03-06), Night (06-09), Day (09-12), Night (12-15)]								
ORB ATT		[Orbit Attenuation: 03-06, 06-09, 09-12, 12-15]								
ORBIT		BIAS -XLV +ZVV								
DAILY ORBIT		81	82	83	84	85	86	87	88	89
TDRS		9	10	11	12	13	14	15	16	1
W -171 E -47		[TDRS Coverage: 03-06, 06-09, 09-12, 12-15]								
NOTES										

FD06

FD07

MET Day 005 03 04 05 06 07 08 09 10 11 12 13 14 15

GMT 11/15/02 10 11 12 13 14 15 16 17 18 19 20 21

I S S	DAY/NIGHT																								
	ORBIT																								
	DAILY ORBIT	9	10	11	12	13	14	15	16	1															
TDRS S-BD																									
E X P - 6	ISS CDR BOWERSOX	PRE SLEEP																			SLEEP	POST SLEEP			
	FE-1 BUDARIN	PRE SLEEP																			SLEEP	POST SLEEP			
	FE-2 PETTIT	PRE SLEEP																			SLEEP	POST SLEEP			
S B D	PIP3 SSAS C/O	IPIP3 SSAS C/O																							
	PCG STES-007-PWR EXPRS1-SYS-PWR/THERM EXPRS4-SYS-PWR/THERM MAMS-P/L-NOM OPS SAMS-ICU/D1-OPS SAMS-RTS/D1-OPS SAMS-RTS/D2-OPS																								
M C																									
ISS ATT		TEA																							
NOTES																									

PCG S1
EXPRS1
EXPRS4
MAMS-F
SAMS-I
SAMS-F
SAMS-F

FD07

GMT 11/15/02 22 23 17 11/16 01 02 03 04 05 06 07 08 09 03
 MET Day 005 15 16 17 18 19 20 21 22 23 006/00 01 02 03

STS-113	CDR WETHERBEE	POST SLEEP		MCI U C K	-XLV -ZVV	REBOOST CONFIG 3	-XLV +ZVV	EXERCISE	PWR FILL (2)	MEAL	CP R H E O W T O	CREW CONF	N2 XFER TERM	+X Y L V V	S I N I M I T	W T S E N T R D I L E M S T	C I N N I L Y M S	S T P E N D R L M V	C T N E X T L V V	+X Z L V V	PS R L E E P	PMC O C A	PRE S L E E P
	PLT LOCKHART	POST SLEEP		W C O M P A C T	P/TV24 ISS SURVEY	EXERCISE		C I W N C I T	XFER	C T W E R M	TRANSFER	MEAL	CP R H E O W T O	CREW CONF	C I W N C I T	N2 XFER TERM	C T W E R M	TRANSFER	EVA 3 PROC RVW	PRE SLEEP			
	MS1 LOPEZ-ALEGRIA	POST SLEEP (GIRA)		PCG STES 7 XFER	EVA TOOL CONFIG	E/L PREP	H2O RCHG	M T X T R M	B S A - T	CGBA XFER	MEAL	CP R H E O W T O	CREW CONF	EXERCISE		PGBA XFER	EVA 3 PROC RVW	X B R E E F	PRE SLEEP (GIRA)				
	MS2 HERRINGTON	POST SLEEP		TRANSFER	EVA TOOL CONFIG	E/L PREP	H2O RCHG	M T X T R M	B S A - T	EVA C A M S / U	PS / T U 2 1	MEAL	CP R H E O W T O	CREW CONF	E M B M E A T T O T E R Y	XFER	EXERCISE		EVA 3 PROC RVW	PRE SLEEP			
EXP-5	ISS CDR KORZUN	DPC	PREP WORK	*	EXERCISE-TVIS+RED			H/O			MEAL	CP R H E O W T O	CREW CONF	P E A V E N T	H/O		EXERCISE TVIS	DAILY PLAN REVIEW	PREP WORK	DPC			
	FE-1 WHITSON	DPC	PREP WORK	M S D T D A K T	PCG STES 7 XFER	H/O			EXERCISE TVIS		MEAL	CP R H E O W T O	CREW CONF	P E A V E N T	EXERCISE RED		M S D T D A K T	DAILY PLAN REVIEW	PREP WORK	DPC			
	FE-2 TRESCHEV	DPC	PREP WORK	EXERCISE-TVIS+RED			H/O			MEAL	CP R H E O W T O	CREW CONF	P E A V E N T	EXERCISE TVIS	TRANSFER	IMS FILE PREP	DAILY PLAN REVIEW	PREP WORK	DPC				
DAY/NIGHT																							
ORB ATT		BIAS -XLV +ZVV									BIAS -XLV +ZVV						BIAS -XLV +YVV				BIAS -XLV +ZVV-		
ORBIT		89 90 91 92 93 94 95 96 97																					
DAILY ORBIT		1 2 3 4 5 6 7 8 9																					
TDRS		W -171 E -47																					
NOTES		*IMS-CONF *TERM																					

FD07

MET Day 005 15 16 17 18 19 20 21 22 23 006/00 01 02 03

GMT 11/15/02 22 23 11/16 01 02 03 04 05 06 07 08 09

I S S	DAY/NIGHT	[Bar chart showing day/night cycle]							
	ORBIT	[Bar chart showing orbit cycle]							
	DAILY ORBIT	1	2	3	4	5	6	7	8
TDRS S-BD		[Bar chart showing TDRS S-BD cycle]							

E X P - 6	ISS CDR BOWERSOX	DPC	PREP WORK	PMC	PCG STES 10 XFER	H/O	EXERCISE RED	MEAL	▲	CREW CONF	⊕	N2 XFER TERM	◆	⊙	OFF DUTY	▼	Δ	DAILY PLAN REVIEW	PREP WORK	DPC
	FE-1 BUDARIN	DPC	PREP WORK	PMC	COX-MNT	H/O		MEAL	▲	CREW CONF	⊕	H/O			EXERCISE VELO			DAILY PLAN REVIEW	PREP WORK	DPC
	FE-2 PETTIT	DPC	PREP WORK	PMC		H/O	CGBA XFER	MEAL	▲	CREW CONF	⊕	CEVIS	PGBA XFER						PREP WORK	DPC

S B D	DPC	DPC																		
	HMS-PMC	HMS-PMC																		
P L	ACS-CMG/STS-ATT-H/O	HACS-CMG/STS-ATT-H/O																		
	ACS-UPDT-MNVR-PLN	HACS-UPDT-MNVR-PLN																		
	ACS-STS/CMG ATT-H/O	HACS-STS/CMG ATT-H/O																		
	ACS-MOM MGMT-ACT	HACS-MOM MGMT-ACT																		
	MAMS-STORED DATA-D/L	MAMS-STORED DATA-D/L																		
	PCG STES-007-PWR	PCG STES-007-PWR																		
	EXPRS1-SYS-PWR/THERM																			
	EXPRS4-SYS-PWR/THERM																			
	MAMS-P/L-NOM OPS																			
	SAMS-ICU/D1-OPS																			
SAMS-RTS/D1-OPS																				
SAMS-RTS/D2-OPS																				
CPO/PRO-PCG-CMD	CPO/PRO-PCG-CMD																			
PCG STES-010-DATA-DL	PCG STES-010-DATA-DL																			
PCG STES-010-PWR	PCG STES-010-PWR																			
MAMS-STORED DATA-D/L	MAMS-STORED DATA-D/L																			

S C M																				
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ISS ATT	TEA	REBOOST 2	TEA	H2O DUMP	TEA
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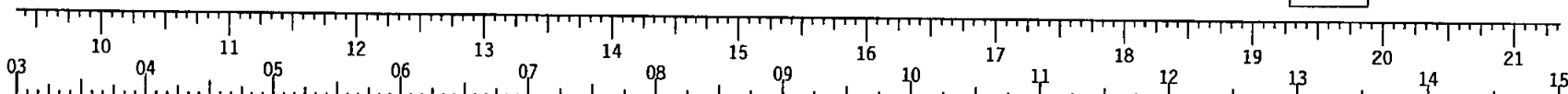
NOTES	▲CREW PHOTO ⊕PAO EVENT ◆PCG STES-HSD VID-S/U ΔEVARM-BDG-POST READ ⊙PCG STES-010-ACT ▲LAB-PL-STATCK ▼EVARM-READER-ACT																		
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FD07

FD08

GMT 11/16/02

MET Day 006



STS-113	CDR WETHERBEE	PRE SLEEP	SLEEP	POST SLEEP	PMC A/G	POST SLEEP			
	PLT LOCKHART	PRE SLEEP	SLEEP	POST SLEEP	LEH	EVA PREP W/ STS 02			
	MS1 LOPEZ-ALEGRIA	PRE SLEEP (GIRA)	SLEEP	POST SLEEP (GIRA)	LEH	EVA PREP W/ STS 02			
	MS2 HERRINGTON	PRE SLEEP	SLEEP	POST SLEEP	LEH	EVA PREP W/ STS 02			
EXP-5	ISS CDR KORZUN	PRE SLEEP	SLEEP	POST SLEEP					
	FE-1 WHITSON	PRE SLEEP	SLEEP	POST SLEEP					
	FE-2 TRESCHEV	PRE SLEEP	SLEEP	POST SLEEP					
DAY/NIGHT		[Bar chart showing day/night cycle]							
ORB ATT		BIAS -XLV +ZVV							
ORBIT		97	98	99	100	101	102	103	104
DAILY ORBIT		9	10	11	12	13	14	15	1
TDRS		[Bar chart showing TDRS activity]							
W -171		[Bar chart showing W-171 activity]							
E -47		[Bar chart showing E-47 activity]							
NOTES									

FD07

FD08

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

GMT 11/16/02

I S S	DAY/NIGHT	[Shaded bars indicating day/night cycle]													
	ORBIT	[Shaded bars indicating orbit cycle]													
	DAILY ORBIT	9	10	11	12	13	14	15	1						
	TDRS S-BD	[Shaded bars indicating TDRS S-BD cycle]													

E X P - 6	ISS CDR BOWERSOX	PRE SLEEP	SLEEP										POST SLEEP
	FE-1 BUDARIN	PRE SLEEP	SLEEP										POST SLEEP
	FE-2 PETTIT	PRE SLEEP	SLEEP										POST SLEEP

S B D	ISS EVA-COMM-CNFG	[Shaded]										ISS EVA-COMM-CNFG
	C&T-VIDEO CNFG	[Shaded]										C&T-VIDEO CNFG
P L	A/L-10.2 PSI OP-INIT	[Shaded]										A/L-10.2 PSI OP-INIT
	TCCS DEACT	[Shaded]										TCCS DEACT

P L	EXPRS1-SYS-PWR/THERM	[Shaded]														EXPRS
	EXPRS4-SYS-PWR/THERM	[Shaded]														EXPRS
	MAMS-P/L-NOM OPS	[Shaded]														MAMS-
	SAMS-ICU/01-OPS	[Shaded]														SAMS-
	SAMS-RTS/D1-OPS	[Shaded]														SAMS-
	SAMS-RTS/D2-OPS	[Shaded]														SAMS-
PCG STES-010-PWR	[Shaded]														PCG S	

R S	[Empty]	[Empty]													
M C R	[Empty]	[Empty]													

ISS ATT TEA

NOTES

FD08

GMT 11/16/02 22 23 11/17 01 02 03 04 05 06 07 08 09
 MET Day 006 15 16 17 18 19 20 21 22 23 007/00 01 02 03

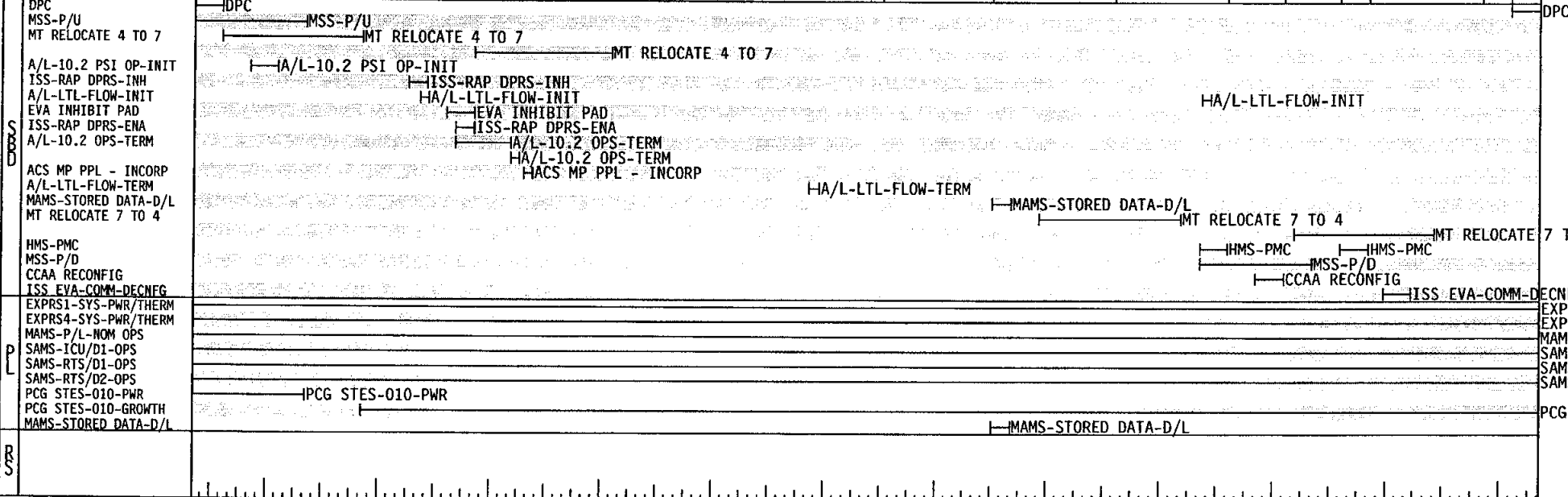
STS-113	R1 CDR WETHERBEE	POST SLEEP	EXERCISE	MCI U C K	PE / V T A V S 2 / 3 /	P/TV23 EVA OPS										EVA C O M	ILL O N	PRE SLEEP		
	IV1 PLT LOCKHART	EVA PREP W/ STS 02	1R 4 E P 7R	EMU PRE BREATHE	C/L DEPR	IVA SUPPORT EVA 3										PREP E R	POST EVA W/O H2O	PRE SLEEP		
	EV1 MS1 LOPEZ-ALEGRIA	EVA PREP W/ STS 02	EP M U R G E	EMU PRE BREATHE	C/L DEPR	EG G R E S S	SS O R T I P E	Z Q I D S /	Z1/LAB QDS	LAB HTR EXCHANGER	P1 PUMP MODULE	CID 7/8 MBSU RCNFG	SO SHUNT JUMPERS	SI FHRC	SC O L R E T A I N E U P	IN G R E S S	PREP E R	POST EVA W/O H2O	B S A	PS R E E P
	EV2 MS2 HERRINGTON	EVA PREP W/ STS 02	EP M U R G E	EMU PRE BREATHE	C/L DEPR	EG G R E S S	SS O R T I P E	RBVMS (12)		RBVMS (6)		ATA U M B I L I C A L M A T E	SI PUMP MODULE		SC O L R E T A I N E U P	IN G R E S S	PREP E R	POST EVA W/O H2O	B S A	PS R E E P
EXP-5	ISS CDR KORZUN	DPC PREP WORK	ПФП-ОДНТ-ТРНГ-CLSOUT		ПФП-ОДНТ-ТРНГ-CLSOUT		H/O		MEAL	H/O		PMC	EXERCISE TVIS	DAILY PLAN REVIEW	PREP WORK	DPC				
	M1 FE-1 WHITSON	DPC PREP WORK	MT RELOCATE 4 TO 7		M P G D R P F L /	V I D E O	P W I D E O	SSRMS LAB UNGRPL	RBVM SPD INSTALL		MEAL	LAB GRPL	V I D E O	P W I D E O	U P D G R F A P	MT RELOCATE 7 TO 4	EXERCISE RED	EXERCISE TVIS		
	FE-2 TRESCHEV	DPC PREP WORK	ПФП-ОДНТ-ТРНГ-CLSOUT		ПФП-ОДНТ-ТРНГ-CLSOUT		H/O		MEAL	H/O		IMS FILE PREP	EXERCISE VELO	DAILY PLAN REVIEW	PREP WORK	DPC				
DAY/NIGHT		[Shaded blocks]																		
ORB ATT		[Shaded blocks]																		
ORBIT		BIAS -XLV +ZVV																		
DAILY ORBIT		105	106	107	108	109	110	111	112											
TDRS		W -171																		
		E -47																		
NOTES		* CID 7/8 ON (CL)																		

FD08

MET Day 006 15 16 17 18 19 20 21 22 23 007/00 01 02 03
 GMT 11/16/02 22 23 11/17 01 02 03 04 05 06 07 08 09

I S S	DAY/NIGHT	[Timeline]								
	ORBIT	[Timeline]								
	DAILY ORBIT	[Timeline]								
TDRS S-BD		2	3	4	5	6	7	8	9	

E X P - 6	M2 ISS CDR BOWERSOX	DPC	PREP WORK	M S D T D A K T	MT RELOCATE 4 TO 7	SSRMS LAB UNGRPL	CEVIS	MEAL	LAB GRPL	MT RELOCATE 7 TO 4	PMC	DAILY PLAN REVIEW	PREP WORK	DPC
	FE-1 BUDARIN	DPC	PREP WORK	COX-MNT		EXERCISE RED	H/O	MEAL	H/O		PMC	DAILY PLAN REVIEW	PREP WORK	DPC
	IV2 FE-2 PETTIT		EVA PREP W/ STS 02	⊕	EMU PRE BREATHE	C/L DEPR	RBVM SPD INSTALL	MEAL	OFF DUTY	EXERCISE RED	DAILY PLAN REVIEW	PREP WORK	PMC	POST EVA W/O H2O



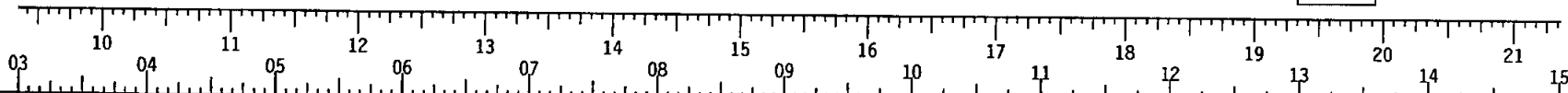
ISS ATT	TEA																
NOTES	*POWERUP	⊕PL-STATCK	◆MBS P/U	ΔVIDEO	⊕PDGF 2 GRPL	▼VIDEO	⊕EMU PURGE	◆PWRDN	⊕PWRUP	▲VIDEO	▲UNGRAP	⊕PDGF2	▲MDDK STAT	⊕VIDEO	◆PWRDN	▼PWRDN	*PWRUP

FD08

FD09

GMT 11/17/02

MET Day 007



S T S - 1 1 3	CDR WETHERBEE	02 CONFIG	PMC A/G	PRE SLEEP	SLEEP	ISS EXTERNAL SURVEY	POST SLEEP			
	PLT LOCKHART			PRE SLEEP	SLEEP		POST SLEEP			
	MS1 LOPEZ-ALEGRIA			PRE SLEEP	SLEEP		POST SLEEP (GIRA)			
	MS2 HERRINGTON			PRE SLEEP	SLEEP		POST SLEEP			
E X P - 5	ISS CDR KORZUN			PRE SLEEP	SLEEP		POST SLEEP			
	FE-1 WHITSON	02 CONFIG		PRE SLEEP	SLEEP		POST SLEEP			
	FE-2 TRESCHEV			PRE SLEEP	SLEEP		POST SLEEP			
DAY/NIGHT		[Bar chart showing day/night cycle]								
ORB ATT		[Bar chart showing orbit attitude]								
DAILY ORBIT		112	113	114	115	116	117	118	119	120
TDRS		W -171	E -47	[Bar chart showing TDRS activity]						
NOTES										

FD08

FD09

MET Day 007		03 04 05 06 07 08 09 10 11 12 13 14 15																							
GMT 11/17/02		10 11 12 13 14 15 16 17 18 19 20 21																							
I S S	DAY/NIGHT	[Shaded bars indicating day/night cycle]																							
	ORBIT	[Shaded bars indicating orbit cycle]																							
S	DAILY ORBIT	9 10 11 12 13 14 15 16 17 18 19 20 21																							
	TDRS S-BD	[Shaded bars indicating TDRS S-BD]																							
E X P - 6	ISS CDR BOWERSOX	PRE SLEEP	SLEEP																		POST SLEEP				
	FE-1 BUDARIN	PRE SLEEP	SLEEP																		POST SLEEP				
	FE-2 PETTIT	PRE SLEEP	SLEEP																		POST SLEEP				
S B	TCCS ACT	TCCS ACT																							
	A/L-MTL-FLOW-ADJUST2	A/L-MTL-FLOW-ADJUST2																							
P L	EXPRS1-SYS-PWR/THERM	[Shaded]																							
	EXPRS4-SYS-PWR/THERM	[Shaded]																							
	MAMS-P/L-NOM OPS	[Shaded]																							
	SAMS-ICU/D1-OPS	[Shaded]																							
	SAMS-RTS/D1-OPS	[Shaded]																							
R S	SAMS-RTS/D2-OPS	[Shaded]																							
	PCG_STES-010-GROWTH	[Shaded]																							
M C C	[Empty]	[Empty]																							
	[Empty]	[Empty]																							
ISS ATT		TEA																							
NOTES		[Empty]																							

EXPRS
EXPRS
MAMS-
SAMS-
SAMS-
PCG S

FD09

GMT 11/17/02

MET Day 007

		15 22 23 11/18 01 02 03 04 05 06 07 08 09 03																							
		008/00 01 02																							
STS-113	CDR WETHERBEE	POST SLEEP	RCNFG FROM STS P/B	IL OFF	MCIU C/K	H/O ATT	-XLV -ZVV	REBOOST CONFG 3	-XLV +ZVV	H/O ATT	PEAV OENT	MEAL	OFF DUTY										CWC CONDIL C/O ON	PRE SLEEP	
	PLT LOCKHART	POST SLEEP	REBA	EMU PREP FOR XFER	EMU XFER TO STS	EMU XFER TO ISS	EMU REC NFG	TRANSFER	PS/TU 21	PEAV OENT	MEAL	OFF DUTY										PRE SLEEP			
	MS1 LOPEZ-ALEGRIA	POST SLEEP (GIRA)	REBA	EMU PREP FOR XFER	EMU XFER TO STS	EMU XFER TO ISS	EMU REC NFG	RNDZ PGSC S/U	RNDZ TOOLS C/O	XFER BRIEF	PEAV OENT	MEAL	OFF DUTY										PRE SLEEP		
	MS2 HERRINGTON	POST SLEEP	REBA	EMU PREP FOR XFER	EMU XFER TO STS	EMU XFER TO ISS	EMU REC NFG	RNDZ PGSC S/U	RNDZ TOOLS C/O	PEAV OENT	MEAL	OFF DUTY										PRE SLEEP			
EXP-5	ISS CDR KORZUN	DPC	ПФП-ОДНТ-ТРНГ-СЛСОУТ				ПФП-ОДНТ-ТРНГ-СЛСОУТ				PEAV OENT	MEAL	H/O				EXERCISE RED	DAILY PLAN REVIEW	PREP WORK	DPC	PRE SLEEP				
	FE-1 WHITSON	DPC	PREP WORK	MDDCK	RCNFG FROM STS P/B	H/O				PMC	EXERCISE TVIS	PEAV OENT	MEAL	H/O				EXERCISE TVIS	MDDCK	DAILY PLAN REVIEW	PREP WORK	DPC	PRE SLEEP		
	FE-2 TRESCHEV	DPC	ПФП-ОДНТ-ТРНГ-СЛСОУТ				ПФП-ОДНТ-ТРНГ-СЛСОУТ				PMC	PEAV OENT	MEAL	EXERCISE TVIS				H/O	IMS FILE PREP	DAILY PLAN REVIEW	PREP WORK	DPC	PRE SLEEP		
DAY/NIGHT		[Timeline]																							
ORB ATT		BIAS -XLV +ZVV																							
ORBIT		-XLV -ZVV																							
DAILY ORBIT		120	121	122	123	124	125	126	127	128	BIAS -XLV +ZVV														
TDRS		W -171	1	2	3	4	5	6	7	8	9	[Timeline]													
		E -47	[Timeline]																						
NOTES		[Blank]																							

FD09

MET Day 007 15 16 17 18 19 20 21 22 23 008/00 01 02 03
 GMT 11/17/02 22 23 11/18 01 02 03 04 05 06 07 08 09 03

I S S	DAY/NIGHT	[Gantt chart showing day/night cycle]								
	ORBIT	[Gantt chart showing orbit data]								
	DAILY ORBIT	[Gantt chart showing daily orbit data]								
TDRS S-BD		1	2	3	4	5	6	7	8	9

E X P - 6	ISS CDR BOWERSOX	DPC	PREP WORK	*	H/O	ITCS COOLANT SMPL	EXERCISE RED	⊕	MEAL	H/O	PMC	DAILY PLAN REVIEW	PREP WORK	DPC	PRE SLEEP
	FE-1 BUDARIN	DPC	PREP WORK	COX-MNT			EXERCISE VELO	⊕	MEAL	TVIS HANDOVER	PMC	DAILY PLAN REVIEW	PREP WORK	DPC	PRE SLEEP
	FE-2 PETTIT	DPC	PREP WORK		H/O	CEVIS	TVIS HANDOVER	⊕	MEAL	H/O	H/O	PMC	DAILY PLAN REVIEW	PREP WORK	DPC

S D S	DPC	DPC													
	ACS-UPDT-MNVR-PLN	HACS-UPDT-MNVR-PLN													
P	ACS-CMG/STS-ATT-H/O	HACS-CMG/STS-ATT-H/O													
	HMS-PMC	HMS-PMC													
	ACS-STG/CMG ATT-H/O	HACS-STG/CMG ATT-H/O													
P	ACS-MOM MGMT-ACT	HACS-MOM MGMT-ACT													
	EXPRS1-SYS-PWR/THERM														
	EXPRS4-SYS-PWR/THERM														
	MAMS-P/L-NOM OPS														
	SAMS-ICU/D1-OPS														
S R	SAMS-RTS/D1-OPS														
	SAMS-RTS/D2-OPS														
	PCG STES-010-GROWTH														

EXPRS1
 EXPRS4
 MAMS-P
 SAMS-I
 SAMS-R
 SAMS-R
 PCG STI

C M	[Gantt chart for CM tasks]															
	[Gantt chart for CM tasks]															

ISS ATT	TEA		REBOOST 3				TEA			
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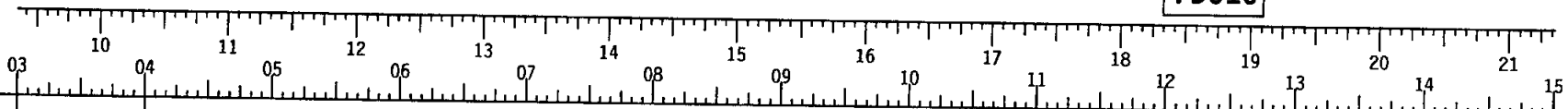
NOTES	*LAB-PL-STATCK															⊕PAO EVENT														
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FD09

FD010

GMT 11/18/02

MET Day 008



S T S - 1 1 3	CDR WETHERBEE	PRE SLEEP	ISS EXTERNAL SURVEY					SLEEP	03:00 04:00 09:00	POST SLEEP				*
	PLT LOCKHART	PRE SLEEP						SLEEP	03:00 04:00 09:00	POST SLEEP				
	MS1 LOPEZ-ALEGRIA	PRE SLEEP						SLEEP	03:00 04:00 09:00	POST SLEEP (GIRA)				
	MS2 HERRINGTON	PRE SLEEP						SLEEP	03:00 04:00 09:00	POST SLEEP				
E X P - 5	ISS CDR KORZUN	PRE SLEEP						SLEEP		POST SLEEP	DPC	PREP WORK	H/O	
	FE-1 WHITSON	PRE SLEEP						SLEEP		POST SLEEP	DPC	PREP WORK	MDDCKC	
	FE-2 TRESCHEV	PRE SLEEP						SLEEP		POST SLEEP	DPC	PREP WORK	H/O	
DAY/NIGHT		[Bar chart showing day/night cycle]												
ORB ATT		[Bar chart showing orb att]												
ORBIT		BIAS -XLV +ZVV												
DAILY ORBIT		128	129	130	131	132	133	134	135	136				
TDRS		9	10	11	12	13	14	15	1	2				
W -171 E -47		[Bar chart showing W/E cycles]												
NOTES														

*EXERCISE

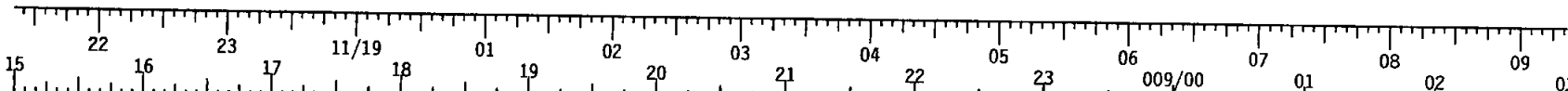
MET		Day 008		03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 15																									
GMT		11/18/02		10 11 12 13 14 15 16 17 18 19 20 21																									
I S S	DAY/NIGHT	[Bar chart showing day/night cycle]																											
	ORBIT	[Bar chart showing orbit status]																											
S	DAILY ORBIT	9 10 11 12 13 14 15 1 2																											
	TDRS S-BD	[Bar chart showing TDRS S-BD]																											
E X P - 6	ISS CDR BOWERSOX	PRE SLEEP	SLEEP																		POST SLEEP	DPC	PREP WORK	H/O					
	FE-1 BUDARIN	PRE SLEEP	SLEEP																		POST SLEEP	DPC	PREP WORK	H/O					
	FE-2 PETTIT	PRE SLEEP	SLEEP																		POST SLEEP	DPC	PREP WORK	* B					
CDRA	CDRA DEACT	CDRA DEACT																											
	S-BD-KEY-CHG	HS-BD-KEY-CHG																											
DPC	ISS-EPS-DOCK CNFG																									ISS-EPS-DOCK CNFG			
	DPC																									DPC			
ACS	ACS-CCDB PARAM-U/D																									ACS-CCDB PA			
	ACS-GNC-PPL-INC																									ACS-GN			
CDRA	CDRA DEACT SUPPORT																									CDRA C			
	EXPRS1-SYS-PWR/THERM																									EXPRS1			
EXPRS	EXPRS4-SYS-PWR/THERM																									EXPRS4			
	MAMS-P/L-NOM OPS																									MAMS-P			
SAMS	SAMS-ICU/D1-OPS																									SAMS-I			
	SAMS-RTS/D1-OPS																									SAMS-R			
PCG	SAMS-RTS/D2-OPS																									SAMS-R			
	PCG STES-010-GROWTH																									PCG ST			
ISS	ISS ATT																									TEA			
NOTES	NOTES																												
	NOTES																												

*LAB-PL-S
@CDRA D

FD10

GMT 11/18/02

MET Day 008



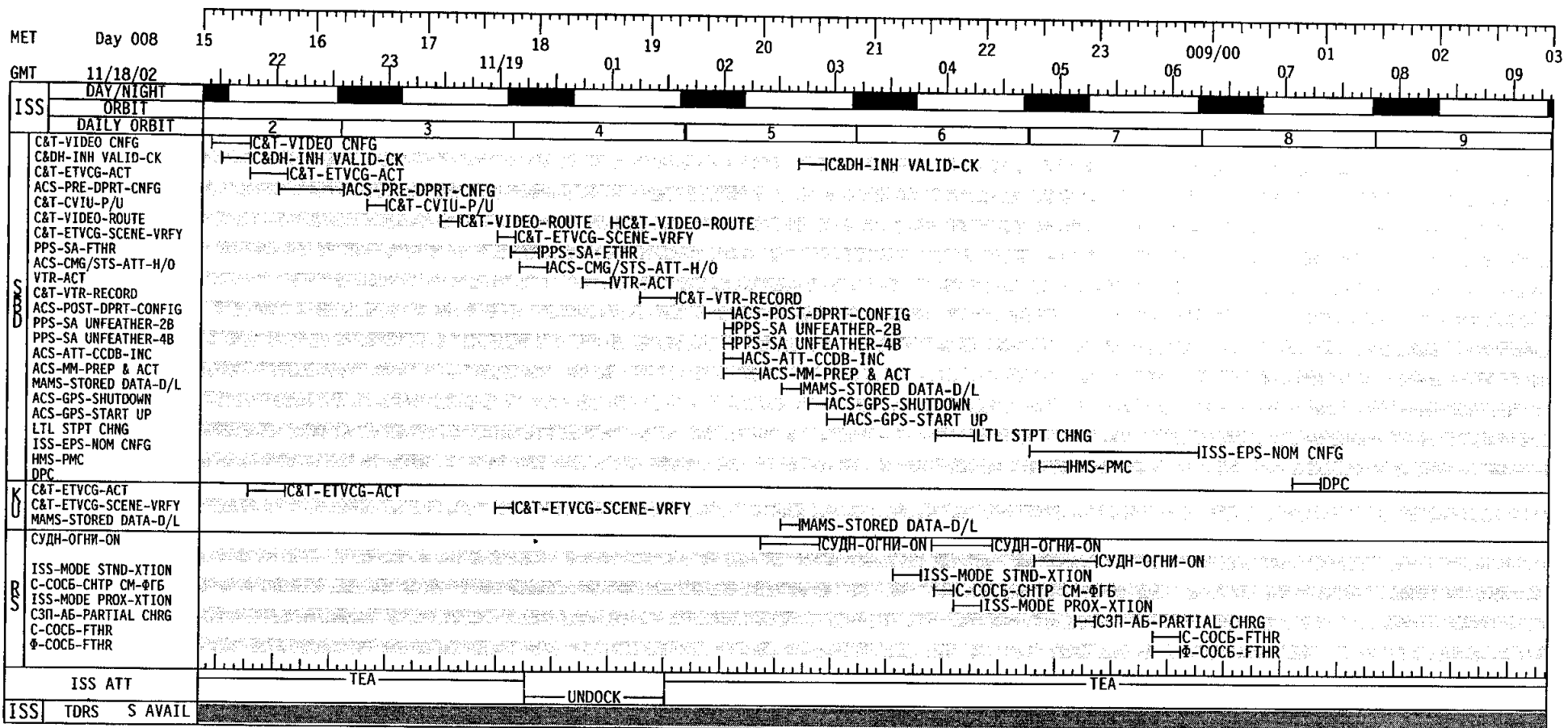
STS-113	CDR WETHERBEE	EXERCISE	IL OFF	FAREWELL	ISS EGRSS		MUNAVT	GPWRUP	UNDOCK	OPS	FLYAROUND	SEP	++ZLVV	SINMIT	GPWRUP	PMC OCA	STEXMLV	-+ZLVV	MDPEP	-ZXLVV		PRE SLEEP	PFC	PSLEEP
	PLT LOCKHART	EXERCISE		FAREWELL	ISS EGRSS	P/TV 20 S/U	ABUCIO	GPWRUP	UNDOCK	OPS	FLYAROUND	SEP			GPWRUP			MEPSI		VBISS/U		PRE SLEEP		
	MS1 LOPEZ-ALEGRIA	XFER BRIEF		FAREWELL	HATCH CLOSE	HATCH LEAK CK	P/TV19 CTR LINE CM		MEAL	UNDOCK	FLYAROUND	SEP	CWC COND STOW		POST UNDK PGSC CFG					EXERCISE		PRE SLEEP (GIRA)	PFC	PRE SLEEP (GIRA)
	MS2 HERRINGTON	FILTER CLEANING		FAREWELL		HATCH LEAK CK	P/TV19 CTR LINE CM		MEAL	UNDOCK	FLYAROUND	SEP			EXERCISE		COM 1	P/TV08 S/U		OIU SSOR DEACT	PFC	PRE SLEEP		
EXP-5	ISS CDR KORZUN	H/O	EXERCISE TVIS	FAREWELL	ISS EGRSS				MEAL	*	FLYAROUND			EXERCISE						PFC		PRE SLEEP		
	FE-1 WHITSON		H/O	FAREWELL	ISS EGRSS				MEAL		FLYAROUND	PFC					EXERCISE		MDCK		PRE SLEEP			
	FE-2 TRESCHEV		H/O	FAREWELL	ISS EGRSS				MEAL		EXERCISE				PFC						PRE SLEEP			
DAY/NIGHT		[Timeline bar]																						
ORB ATT		BIAS -XLV +ZVV																						
ORBIT		UNDOCK FLYAROUND +ZLV +YVV MEPSI -ZLV -XVV																						
DAILY ORBIT		136 137 138 139 140 141 142 143																						
TDRS		W -171 E -47																						
NOTES		* 8/19:05 ISS JETTISON																						

FD010

FD011

MET	Day 008	15	16	17	18	19	20	21	22	23	009/00	01	02	03			
GMT	11/18/02	22	23	11/19	01	02	03	04	05	06	07	08	09	03			
ISS	DAY/NIGHT	[ORBIT BAR]															
	DAILY ORBIT	2	3	4	5	6	7	8	9								
EXP-6	TDRS	[TDRS BAR]															
	ISS CDR BOWERSOX	H/O	AI US DS IO	PMA CNFG	FARE WELL	HATCH CLOSE		*		MEAL	MT EE TR OM X	PMC	CEVIS	DAILY PLAN REVIEW	PREP WORK	DPC	PRE SLEEP
	FE-1 BUDARIN	H/O			FARE WELL	ISS EGRSS			COX-MNT	MEAL	IMS FILE PREP	PMC	EXERCISE RED	DAILY PLAN REVIEW	PREP WORK	DPC	PRE SLEEP
	FE-2 PETTIT	H/O			FARE WELL	ISS EGRSS				MEAL	♦ ®	PMC	EXERCISE TVIS	DAILY PLAN REVIEW	PREP WORK	DPC	PRE SLEEP
PL	EXPRS1-SYS-PWR/THERM	[EXPRESS SYSTEMS BAR]															
	MAMS-P/L-NOM OPS	[MAMS BAR]															
		I-MAMS-STORED DATA-D/L															
ISS ATT		TEA	UNDOCK				TEA										
NOTES		C&T-VDS-STS-CNFG			PMA DEPART				EVARM-READER-ACT					EVARM-BDG-POST READ			

EXPRS1
EXPRS4
MAMS-P
SAMS-I
SAMS-R
SAMS-R
PCG ST

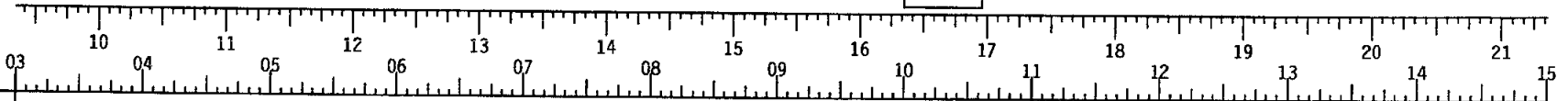


FD10

FD11

GMT 11/19/02

MET Day 009



S T S - 1 1 3	CDR WETHERBEE	SLEEP	POST SLEEP	FCS C/O					
	PLT LOCKHART	SLEEP	POST SLEEP	FCS C/O					
	MS1 LOPEZ-ALEGRIA	SLEEP	POST SLEEP (GIRA)	LAUNCH ENTRY SUIT CK					
	MS2 HERRINGTON	SLEEP	POST SLEEP	FCS C/O					
E X P - 5	ISS CDR KORZUN	SLEEP	POST SLEEP	LAUNCH ENTRY SUIT CK					
	FE-1 WHITSON	SLEEP	POST SLEEP	LAUNCH ENTRY SUIT CK					
	FE-2 TRESCHEV	SLEEP	POST SLEEP	LAUNCH ENTRY SUIT CK					
DAY/NIGHT		[Bar chart showing day/night cycles]							
ORB ATT		-ZLV -XVV-							
ORBIT		144	145	146	147	148	149	150	151
DAILY ORBIT		10	11	12	13	14	15	1	2
TDRS		[Bar chart showing TDRS activity]							
W -171 E -47		[Bar chart showing W/E activity]							
NOTES									

FD11

GMT 11/19/02

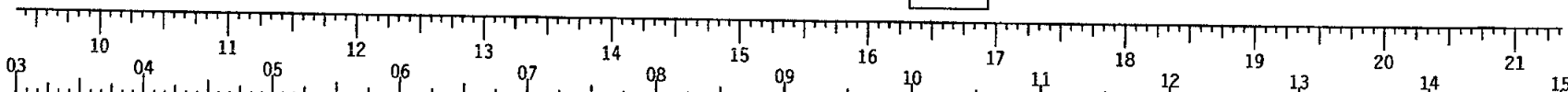
MET Day 009

		15	16	17	18	19	20	21	22	23	010/00	01	02	03	04	05	06	07	08	09	
STS-113	CDR WETHERBEE	FCS C/O	RCS HF	POST EVA ENT PREP	CABIN STOW	PE AV OE NT	CT NE DR SM	-Z X LV V	M C I U C K	R P M W S R D N	MEAL	D/O PREP BRIEF	OFF DUTY	EXERCISE	OFF DUTY	PMC A/G	PRE SLEEP				
	PLT LOCKHART	FCS C/O	RCS HF	POST EVA ENT PREP	CABIN STOW	PE AV OE NT	CABIN STOW				MEAL	D/O PREP BRIEF	R C M B N T S E A T S /U	OFF DUTY	EXERCISE	OFF DUTY	K U S T O W	PRE SLEEP			
	MS1 LOPEZ-ALEGRIA	LAUNCH ENTRY SUIT CK	POST EVA ENT PREP	CABIN STOW	PS // TU V 0 2	PE AV OE NT	P/T V05 S/U	P/T V06 DEACT (SSV)			MEAL	D/O PREP BRIEF	CABIN STOW	OFF DUTY	EXERCISE	OFF DUTY	ERGO STOW	PRE SLEEP (GIRA)			
	MS2 HERRINGTON	FCS C/O	RCS HF	CABIN STOW	PE AV OE NT	CABIN STOW	C O M M 2	L C O M M			MEAL	D/O PREP BRIEF	L C O M M	OFF DUTY	EXERCISE	ERGO STOW	PRE SLEEP				
EXP-5	ISS CDR KORZUN	LAUNCH ENTRY SUIT CK	CABIN STOW	PE AV OE NT	EXERCISE					MEAL	D/O PREP BRIEF	R C M B N T S E A T S /U	OFF DUTY	OFF DUTY	PRE SLEEP						
	FE-1 WHITSON	LAUNCH ENTRY SUIT CK	M D D K C K	EXERCISE	C S A T B O I W N	PE AV OE NT	CABIN STOW			MEAL	D/O PREP BRIEF	R C M B N T S E A T S /U	OFF DUTY	OFF DUTY	M D D K C K	PRE SLEEP					
	FE-2 TRESCHEV	LAUNCH ENTRY SUIT CK	EXERCISE	CABIN STOW	PE AV OE NT	CABIN STOW				MEAL	D/O PREP BRIEF	R C M B N T S E A T S /U	OFF DUTY	OFF DUTY	PRE SLEEP						
DAY/NIGHT		[Day/Night Cycle]																			
ORB ATT		-ZLV +YVV																			
ORBIT		-ZLV-XVV																			
DAILY ORBIT		151	152	153	154	155	156	157	158	159											
TDRS		W -171																			
		E -47																			
NOTES																					

FD11

FD12

GMT 11/20/02
MET Day 010



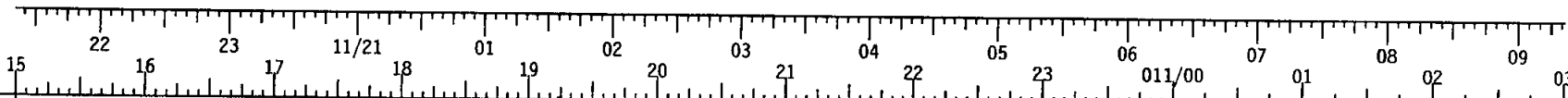
S T S - 1 1 3	CDR WETHERBEE	SLEEP	DSO DOFF 493	POST SLEEP	PMCA/G GPRUP	IMU ALIGN /VERIF	MNX VSI	D/O PREP
	PLT LOCKHART	SLEEP	DSO DOFF 493	POST SLEEP	GPRUP	POST SLEEP	AIR	D/O PREP
	MS1 LOPEZ-ALEGRIA	SLEEP	DOFF	POST SLEEP (GIRA)		GIRA STOW	OS CT AO CW	D/O PREP
	MS2 HERRINGTON	SLEEP	DSO DOFF 493	POST SLEEP				D/O PREP
E X P - 5	ISS CDR KORZUN	SLEEP		POST SLEEP				D/O PREP
	FE-1 WHITSON	SLEEP		POST SLEEP			M D D K C K	D/O PREP
	FE-2 TRESCHEV	SLEEP		POST SLEEP				D/O PREP

DAY/NIGHT	[Bar chart showing day/night cycle]									
ORB ATT	[Bar chart showing orbit attachment]									
ORBIT	-ZLV-XVV									
DAILY ORBIT	159	160	161	162	163	164	165	166	167	
TDRS	W -171									
	E -47									

NOTES

FD12

GMT 11/20/02
MET Day 010



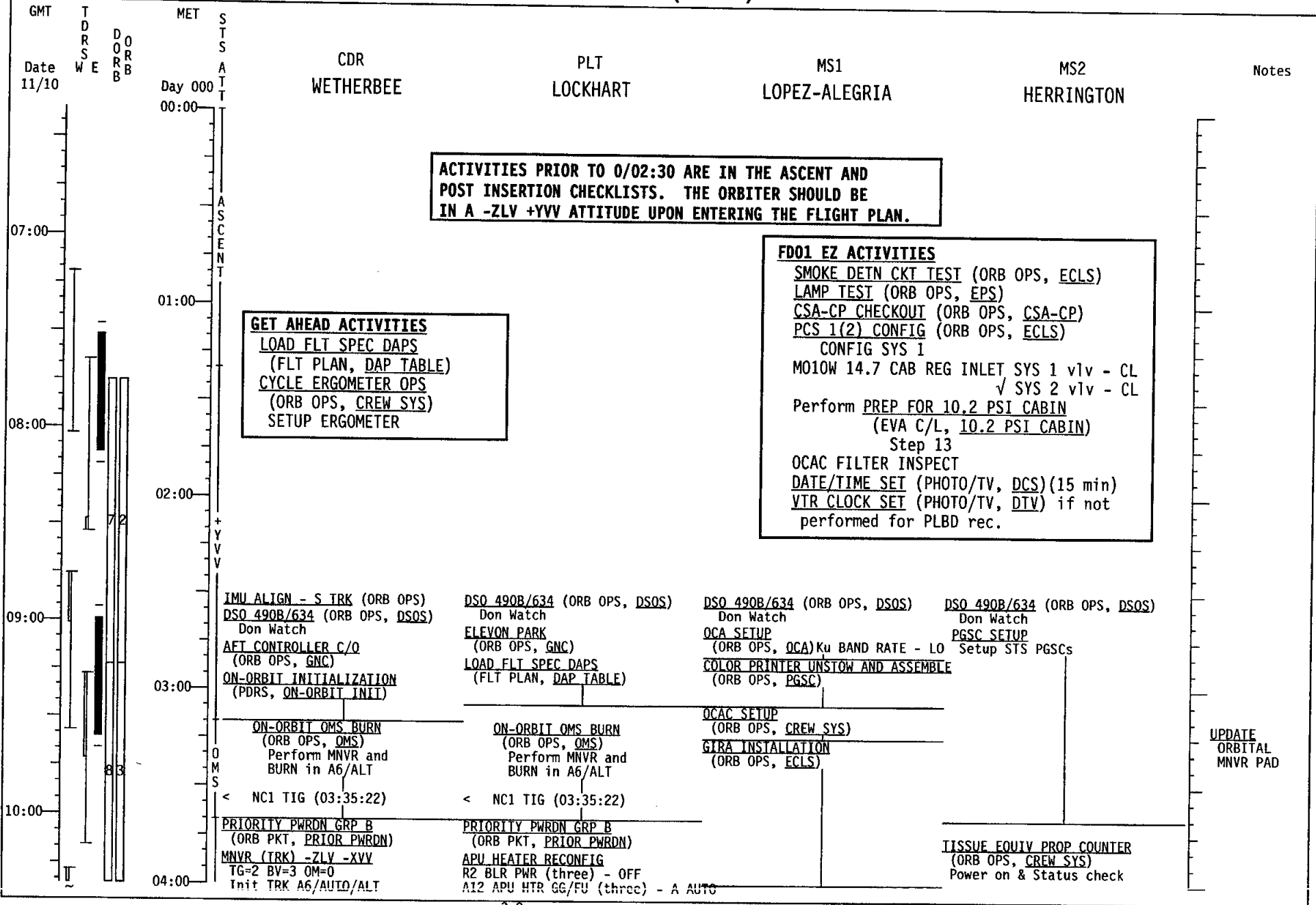
S T S - 1 1 3	CDR WETHERBEE	D/O PREP								
	PLT LOCKHART	D/O PREP	D E O R B I T T I G *	K S C L A N D I N G *						
	MS1 LOPEZ-ALEGRIA	D/O PREP								
	MS2 HERRINGTON	D/O PREP								
E X P - 5	ISS CDR KORZUN	D/O PREP								
	FE-1 WHITSON	D/O PREP								
	FE-2 TRESCHEV	D/O PREP								
DAY/NIGHT										
ORB ATT										
ORBIT		167	168	169	170	171	172	173	174	175
DAILY ORBIT		2	3	4	5	6	7	8	9	10
TORS										
NOTES		* 10/18:09 * 10/19:10								

DETAILED TIMELINE

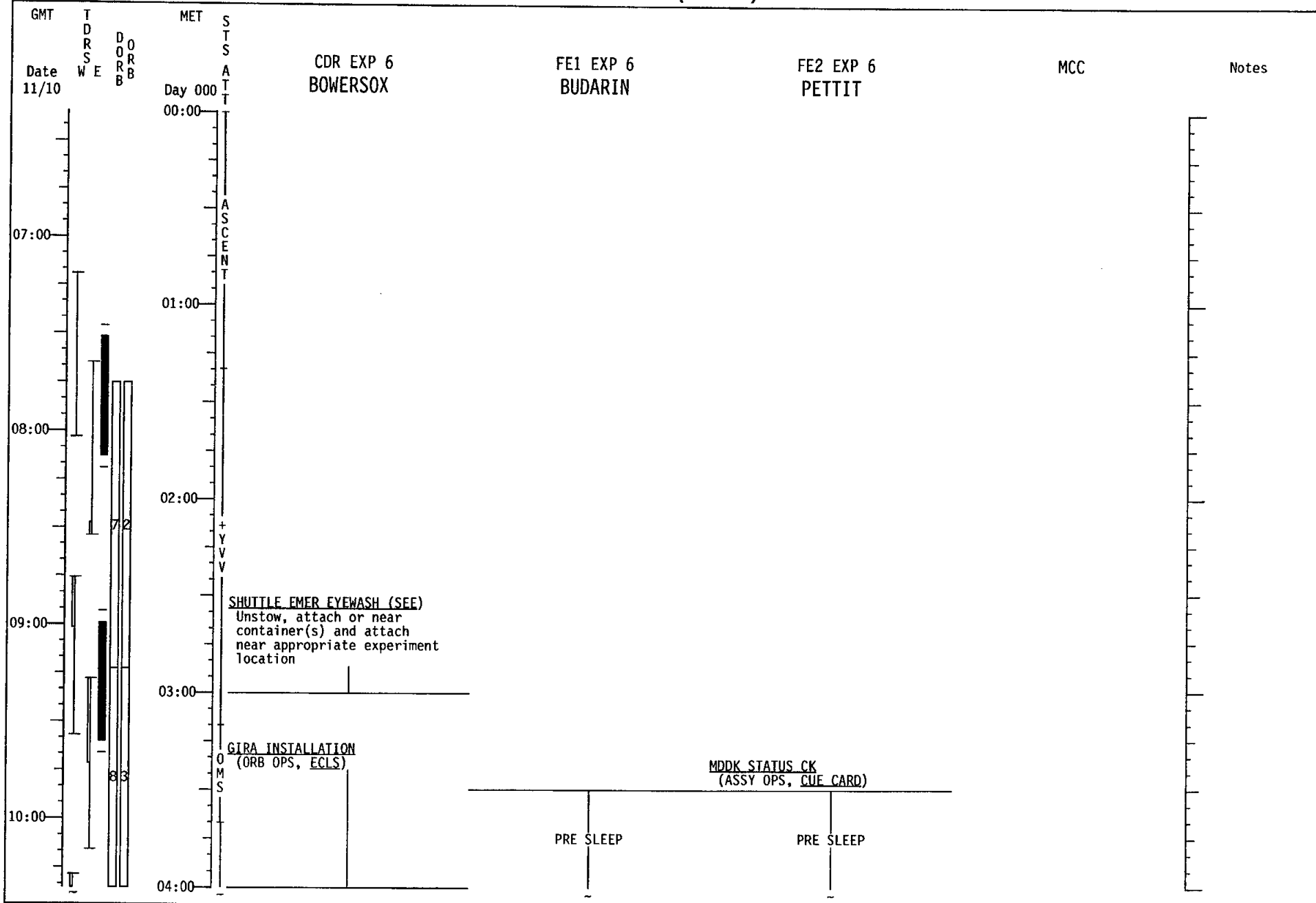
**DETAILED
TIMELINE**

**DETAILED
TIMELINE**

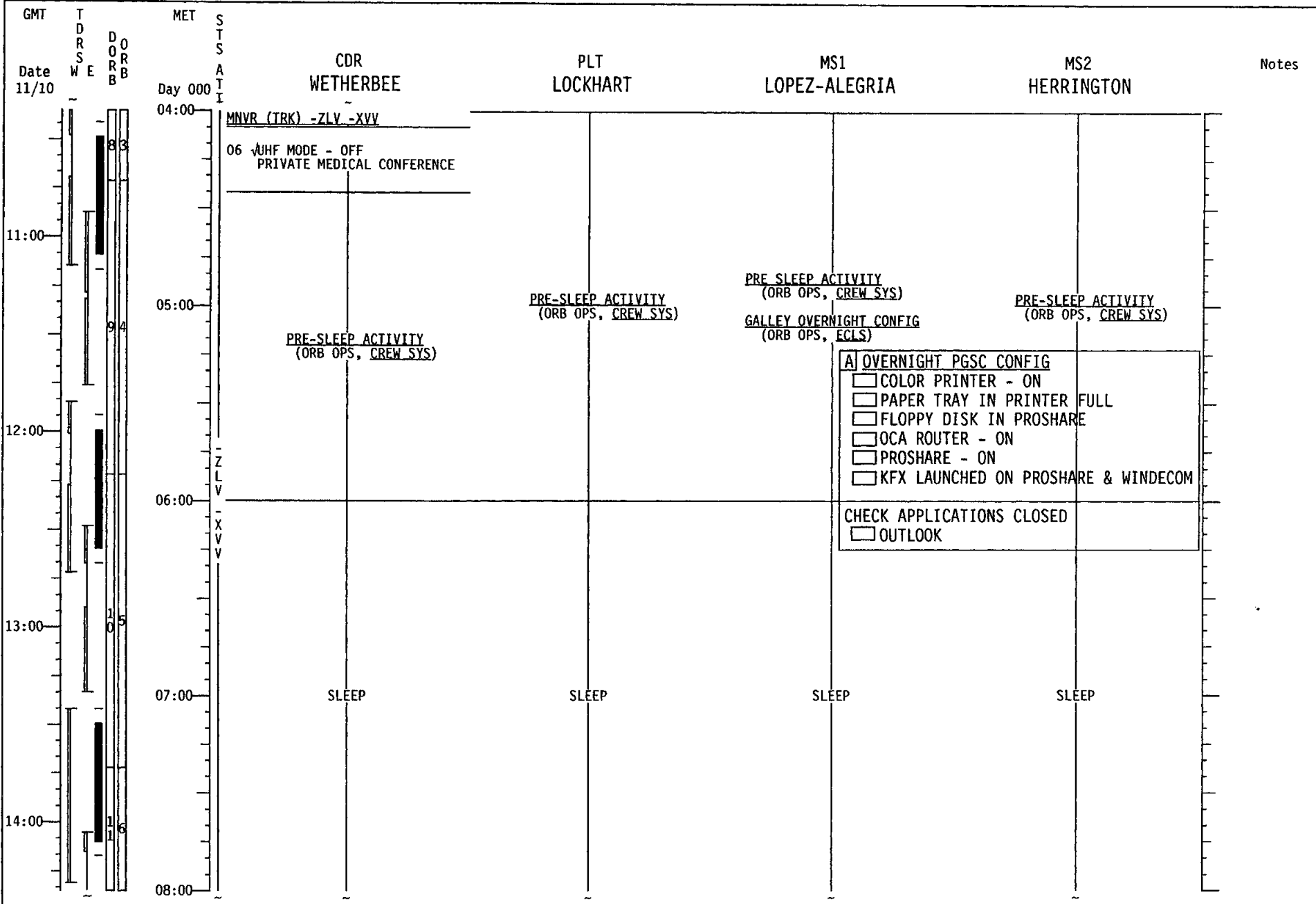
STS-113 (FD 01)



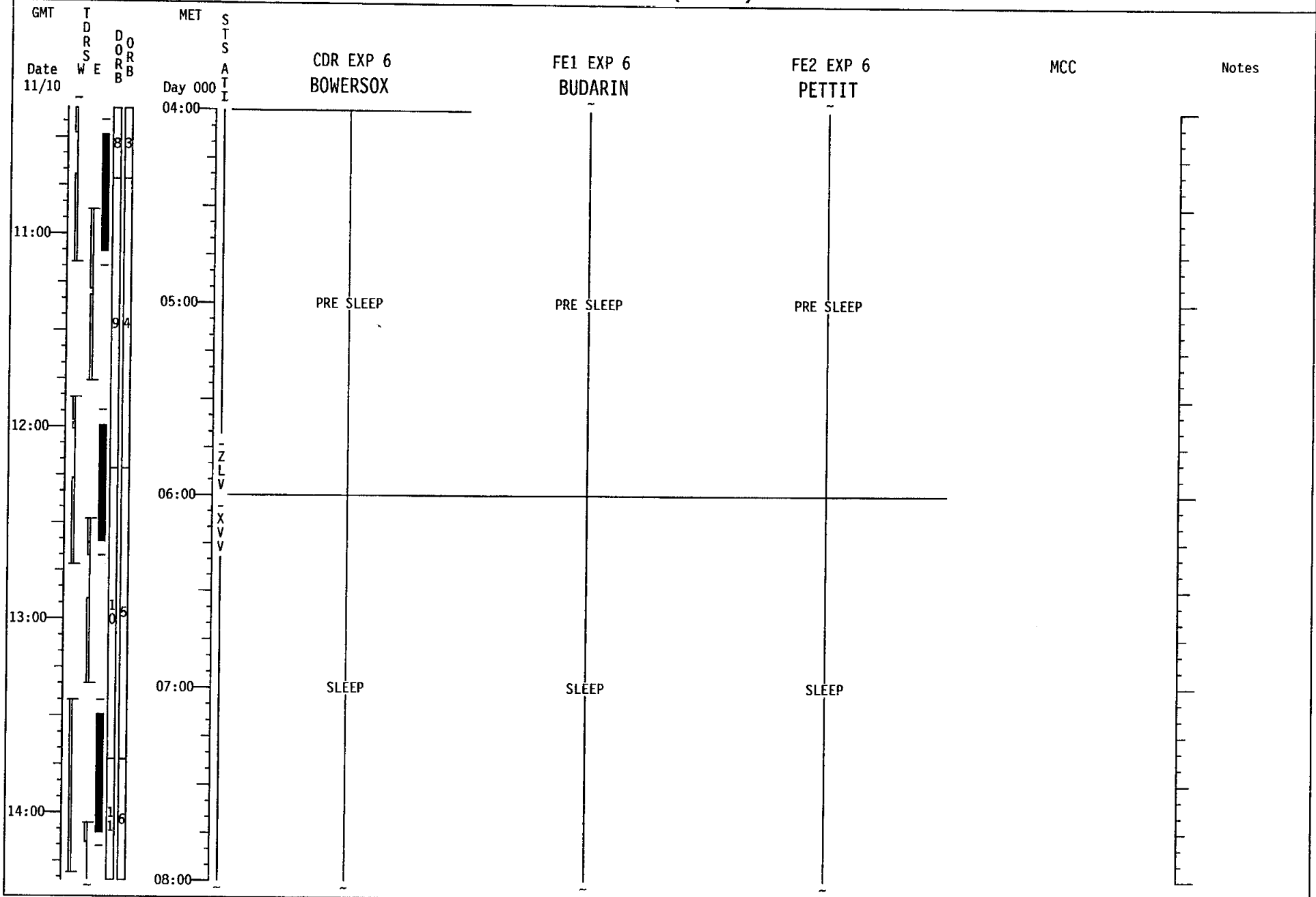
STS-113 (FD 01)



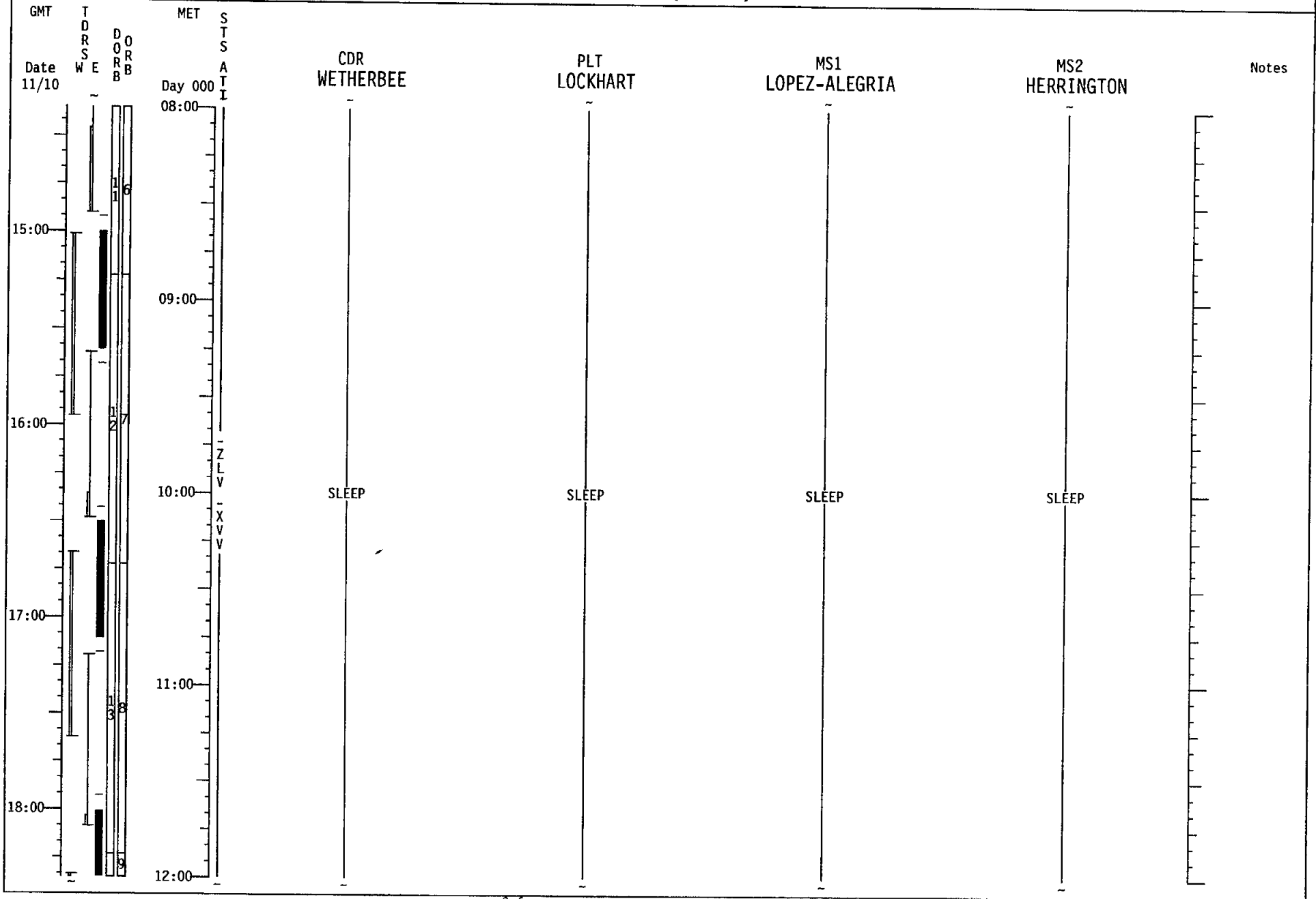
STS-113 (FD 01)



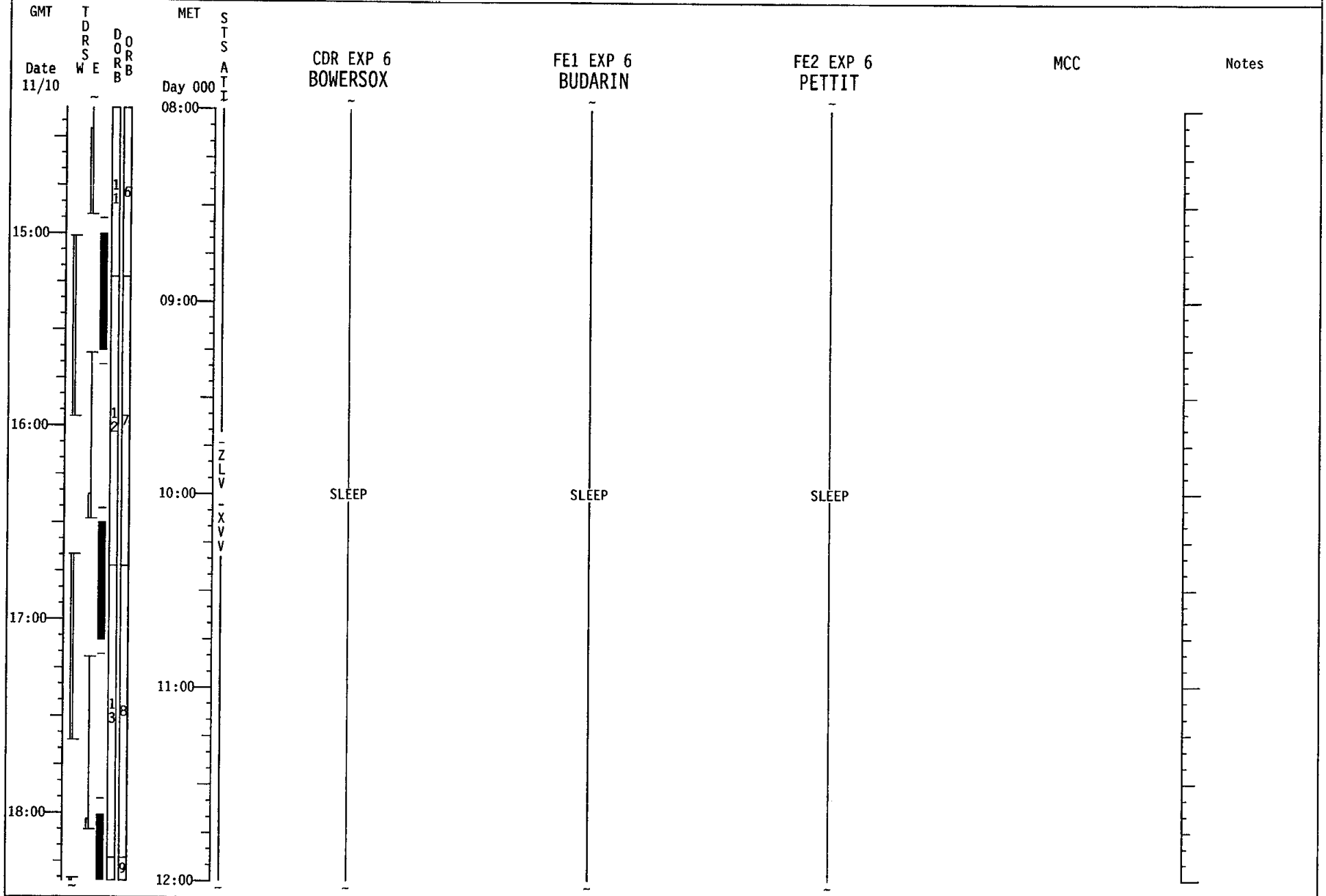
STS-113 (FD 01)



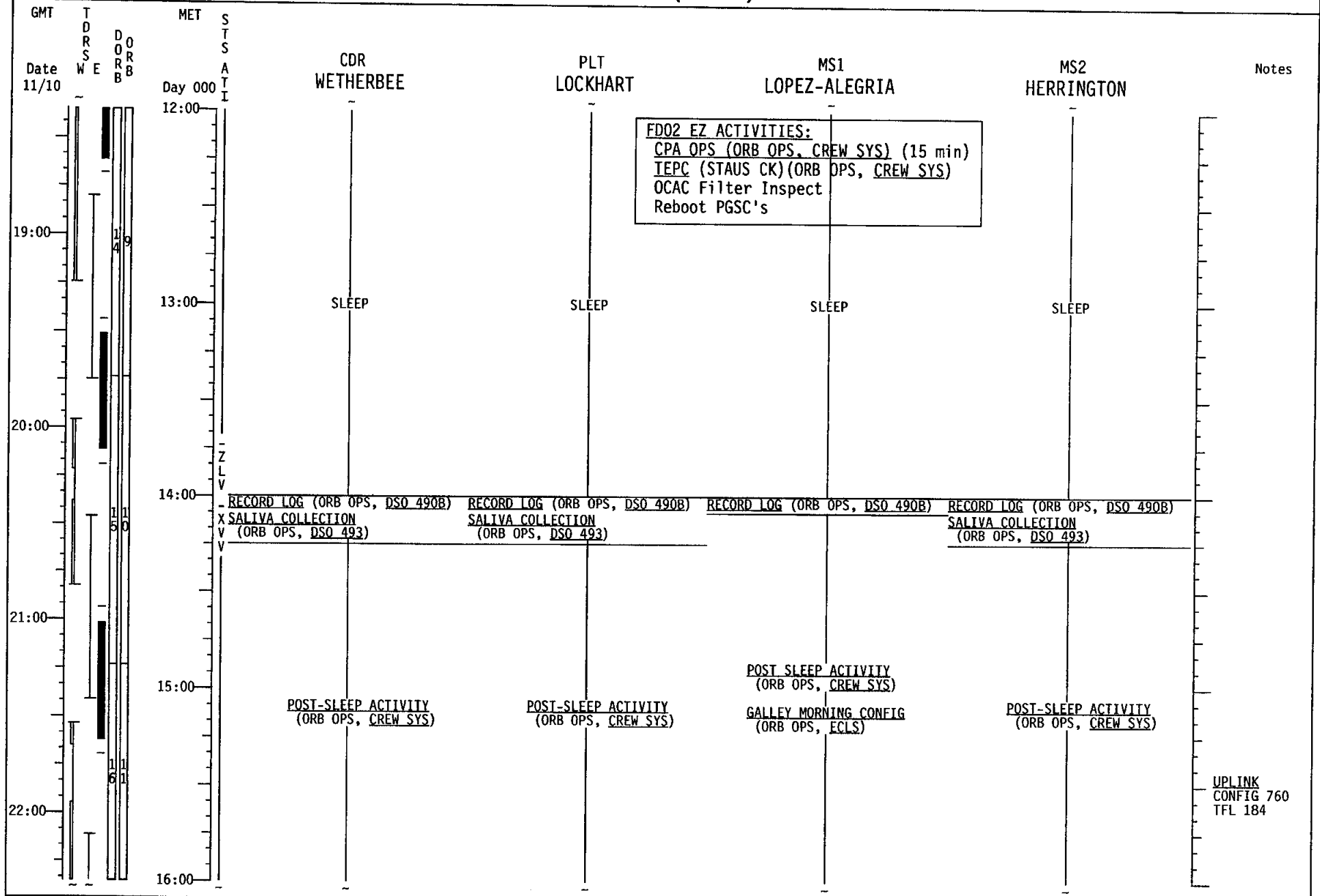
STS-113 (FD 01)



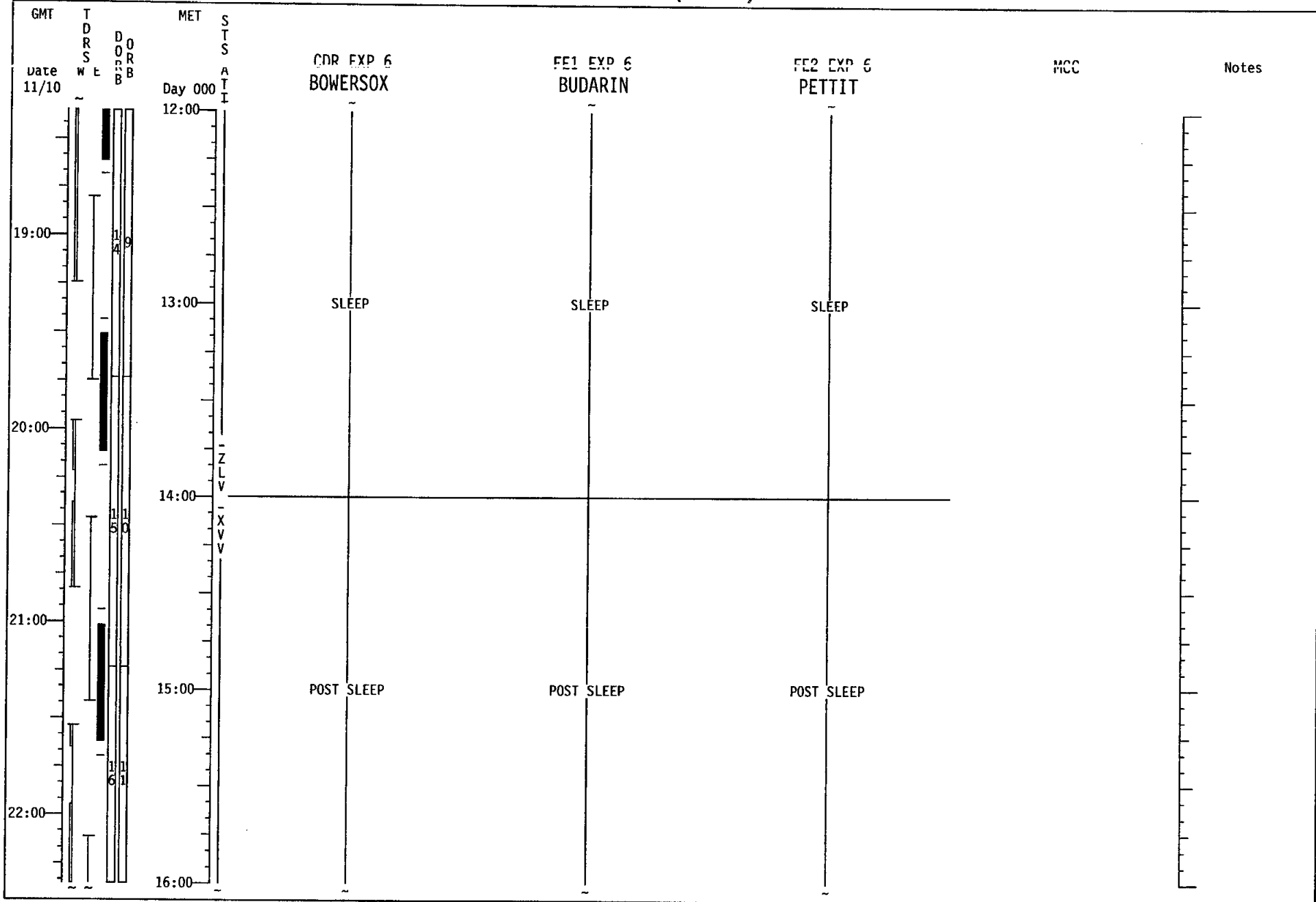
STS-113 (FD 01)



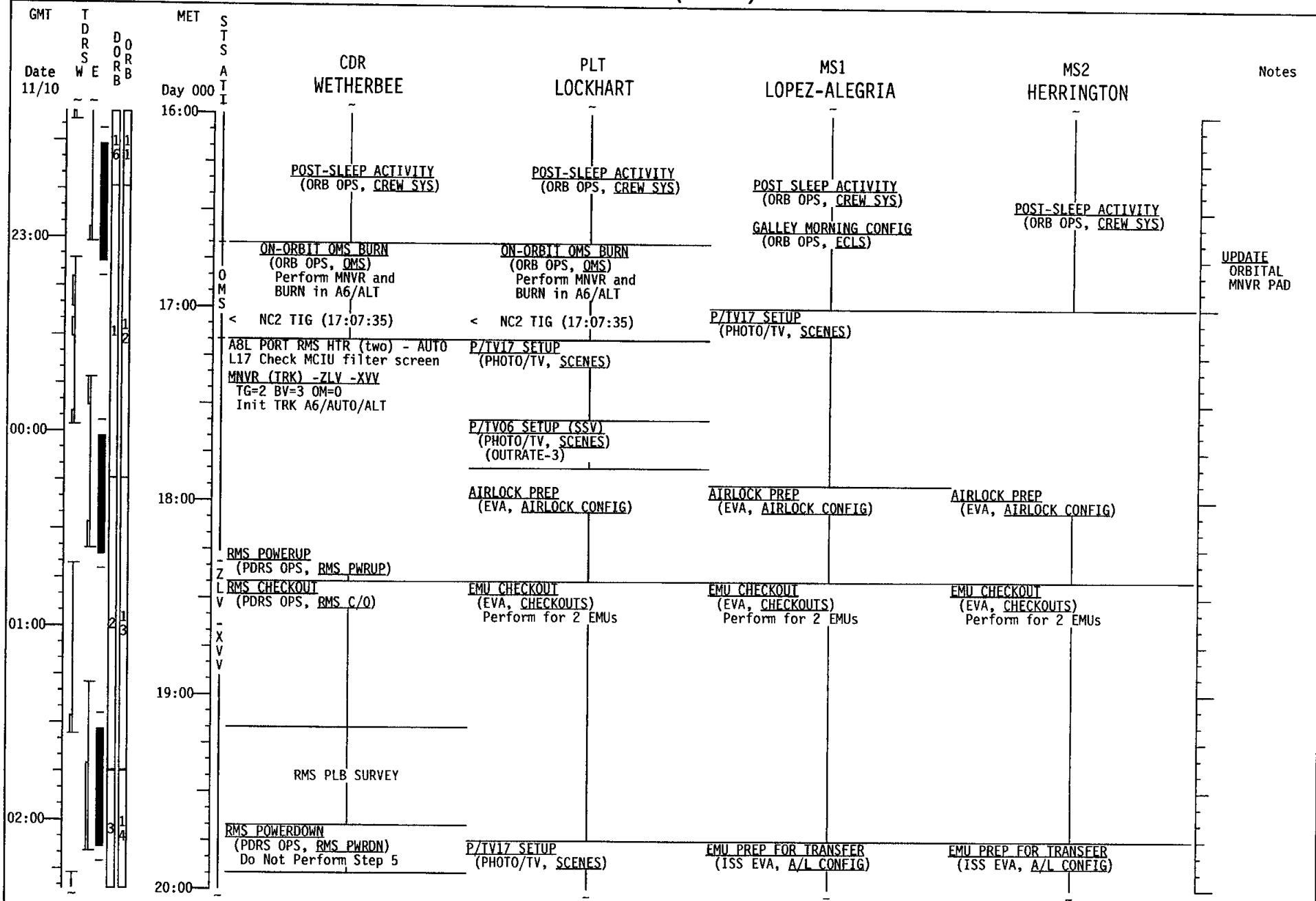
STS-113 (FD 02)



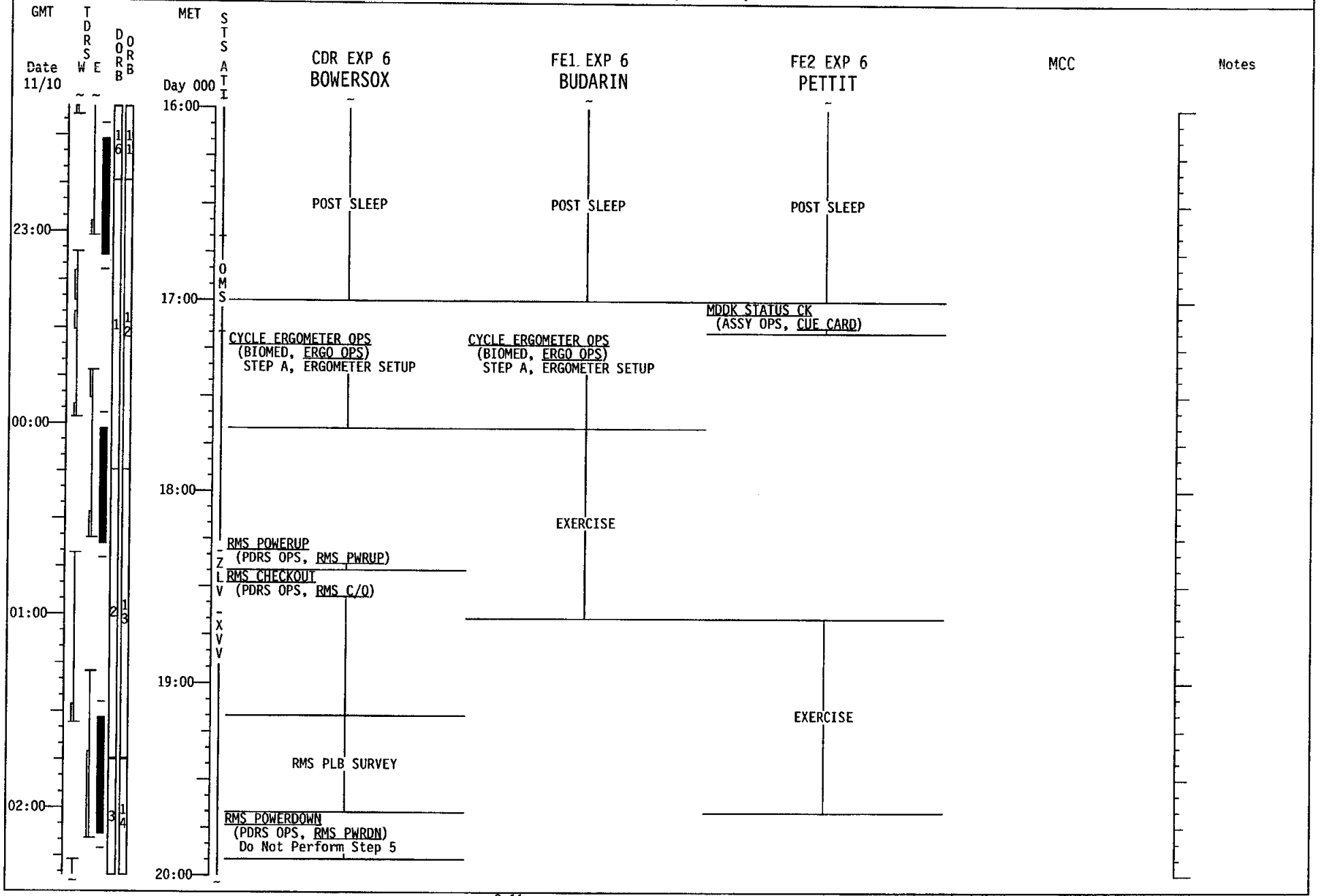
STS-113 (FD 02)



STS-113 (FD 02)



STS-113 (FD 02)



STS-113 (FD 02)

GMT Date 11/11	TDRS W E	DORB 1 2 3 4 5 6	MET Day 000	STS A T I	CDR WETHERBEE	PLT LOCKHART	MS1 LOPEZ-ALEGRIA	MS2 HERRINGTON	Notes
03:00			20:00		R2 BLR CNTLR/HTR (three) - B <u>FC PURGE - MANUAL</u> (ORB OPS, EPS) <u>CRYO 02 TK HTR SNSR CK</u> (ORB OPS, EPS)	<u>P/TV17 SETUP</u> (PHOTO/TV, SCENES)	<u>EMU PREP FOR TRANSFER</u> (ISS EVA, A/L CONFIG) <u>P/TV17 SETUP</u> (PHOTO/TV, SCENES) <u>P/TV02 IN-CABIN ACTIVITIES (SETUP)</u> (PHOTO/TV, SCENES) PAO	<u>EMU PREP FOR TRANSFER</u> (ISS EVA, A/L CONFIG)	
04:00			21:00		MEAL	MEAL	MEAL	MEAL	
05:00			22:00		<u>P/TV07 OSVS SETUP</u> (PHOTO/TV, SCENES) <u>ON-ORBIT MULTI-AXIS RCS BURN</u> (ORB OPS, RCS) < NPC TIG (22:50:51) <u>OSVS POWERUP</u> (PDRS, OSVS OPS) <u>OSVS VIDEO CHECKOUT</u> (PDRS, OSVS OPS)	<u>P/TV19 C/L CAM INSTALL</u> (PHOTO/TV, SCENES) <u>P/TV18 WVS SETUP</u> (PHOTO/TV, SCENES) Steps 3 & 4	<u>P/TV19 C/L CAM INSTALL</u> (PHOTO/TV, SCENES) <u>DOCKING MECH INITIALIZATION</u> <u>DOCKING MECH POWERUP</u> <u>DOCKING RING EXTENSION</u> <u>DOCKING MECH PWRDN</u> (RNDZ, APDS)	<u>EPS SSR-1 FCMS OPS</u> (MAL, EPS SSR) <u>DOCKING MECH INITIALIZATION</u> <u>DOCKING MECH POWERUP</u> <u>DOCKING RING EXTENSION</u> <u>DOCKING MECH PWRDN</u> (RNDZ, APDS)	
06:00			23:00		<u>OSVS POWERDOWN</u> (PDRS, OSVS OPS)	EXERCISE	<u>RNDZ PGSC SETUP</u> (REF DATA, UTIL PWR) Use PGSC Usage Chart and Plug-In-Plan <u>RNDZ TOOLS CHECKOUT</u> (RNDZ, RNDZ TOOLS)	<u>RNDZ PGSC SETUP</u> (REF DATA, UTIL PWR) Use PGSC Usage Chart and Plug-In-Plan <u>RNDZ TOOLS CHECKOUT</u> (RNDZ, RNDZ TOOLS)	UPLINK TGT SV
			00:00						

STS-113 (FD 02)

GMT Date 11/11	TDRS W E	DORB B	MET Day 000	STS ATTI	CDR EXP 6 BOWERSOX	FE1 EXP 6 BUDARIN	FE2 EXP 6 PETTIT	MCC	Notes
			20:00		MEAL	MEAL	MEAL		
			21:00		PUBLIC AFFAIRS EVENT KU AVAIL TDRS 20:56-21:23 Ref MSG ###	PUBLIC AFFAIRS EVENT	PUBLIC AFFAIRS EVENT		
			22:00	Z L V					
			23:00	X V V	EXERCISE				
			00:00						

STS-113 (FD 02)

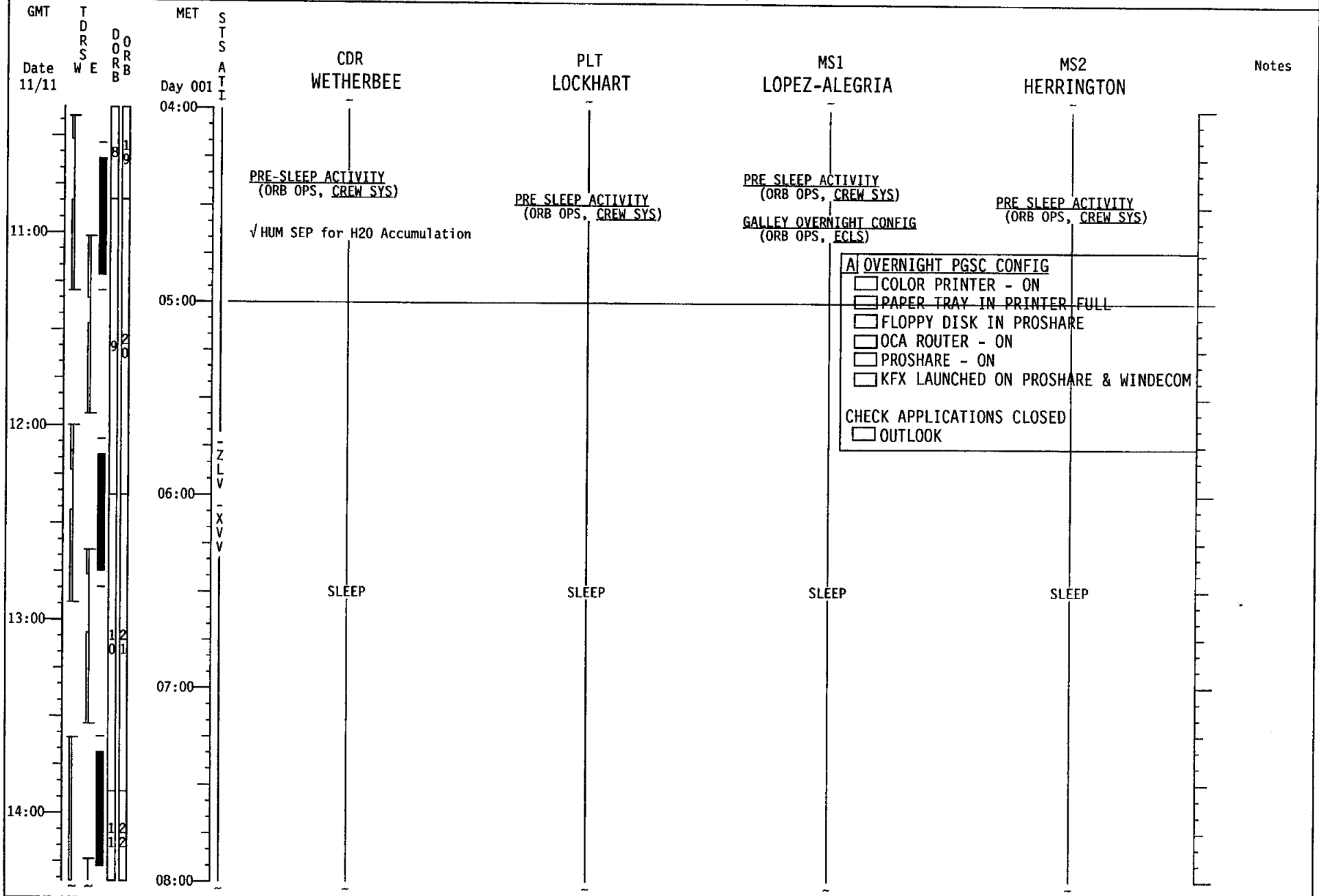
GMT Date 11/11	T D R S W E	D O R B	MET Day 001	STS A T I	CDR WETHERBEE	PLT LOCKHART	MS1 LOPEZ-ALEGRIA	MS2 HERRINGTON	Notes
00:00				Z L V		EXERCISE			
07:00				X V V	EXERCISE	<u>FILTER CLEANING</u> (IFM, SCHEDULED MAINTENANCE) Inspect filters and clean as necessary			
01:00				O M S	<u>ON-ORBIT OMS BURN</u> (ORB OPS, OMS) Perform MNVR and BURN in A6/ALT < NC3 TIG (01/01:25:54)	<u>ON-ORBIT OMS BURN</u> (ORB OPS, OMS) Perform MNVR and BURN in A6/ALT < NC3 TIG (01/01:25:54)	EXERCISE		UPDATE ORBITAL MNVR PAD
08:00					<u>MNVR (TRK) -ZLV -XVV</u> TG=2 BV=3 OM=0 Init TRK A6/AUTO/ALT <u>FUTURE LOADED MNVR (-ZLV +YVV)</u> TG=2 BV=3 OM=270 Init TRK A6/AUTO/ALT (1/14:15)			EXERCISE	
02:00					<u>VIDEO CONFERENCING</u> (ORB OPS, PGSC) Private Medical Conference				OCA-PMC
09:00				Z L V					
03:00				X V V	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS) √HUM SEP for H2O Accumulation	<u>PRE SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>PRE SLEEP ACTIVITY</u> (ORB OPS, CREW SYS) <u>GALLEY OVERNIGHT CONFIG</u> (ORB OPS, ECLS)	<u>PRE SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	
10:00									
04:00									

STS-113 (FD 02)

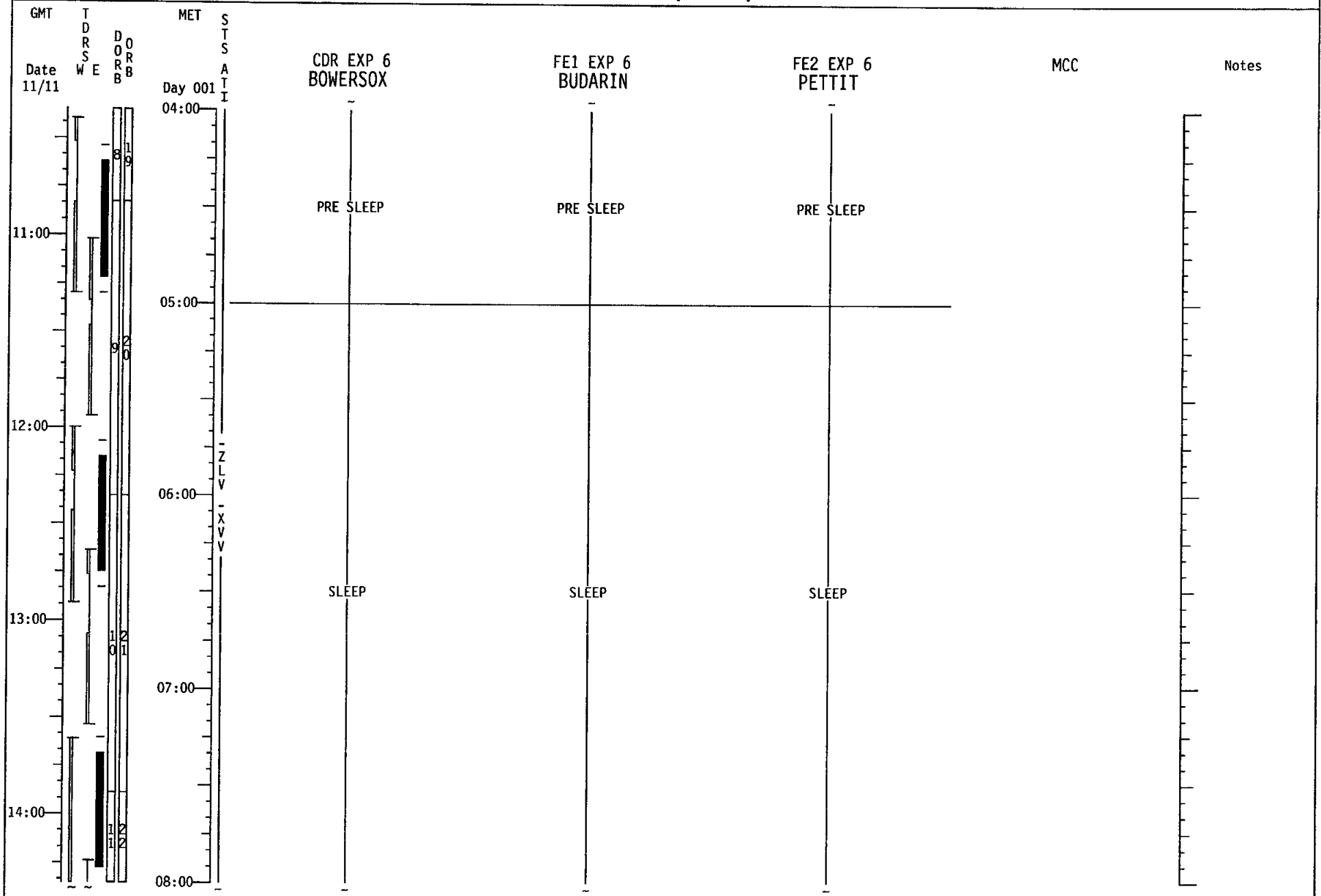
GMT Date 11/11	T D R S W E	D O R B	MET Day 001	S T S A T I	CDR EXP 6 BOWERSOX	FE1 EXP 6 BUDARIN	FE2 EXP 6 PETTIT	MCC	Notes
07:00			00:00						
			01:00						
08:00			02:00						
			03:00		PRE SLEEP	PRE SLEEP	PRE SLEEP		
09:00			04:00						
10:00									

MDDK STATUS CK
(ASSY OPS, CUE CARD)

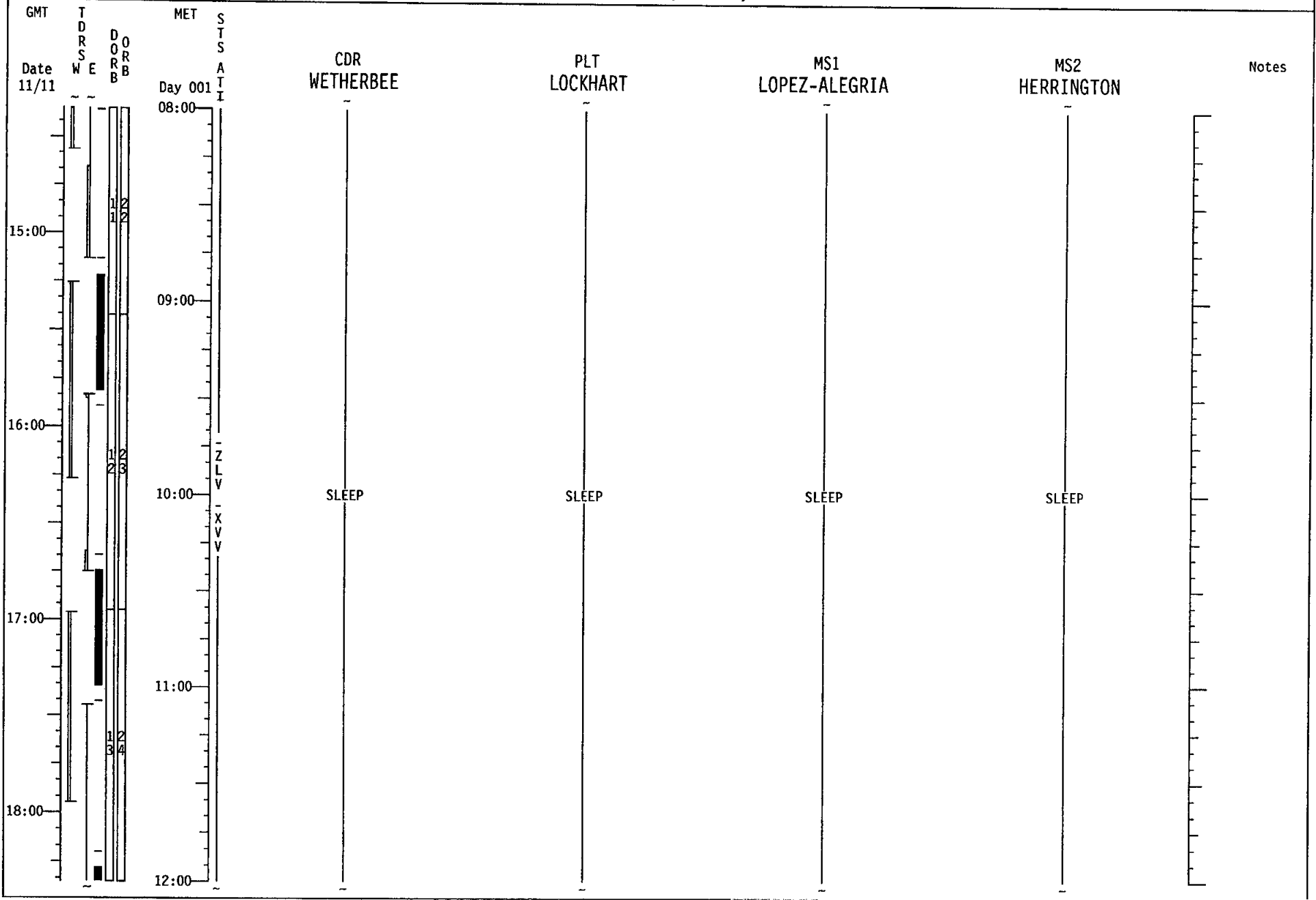
STS-113 (FD 02)



STS-113 (FD 02)



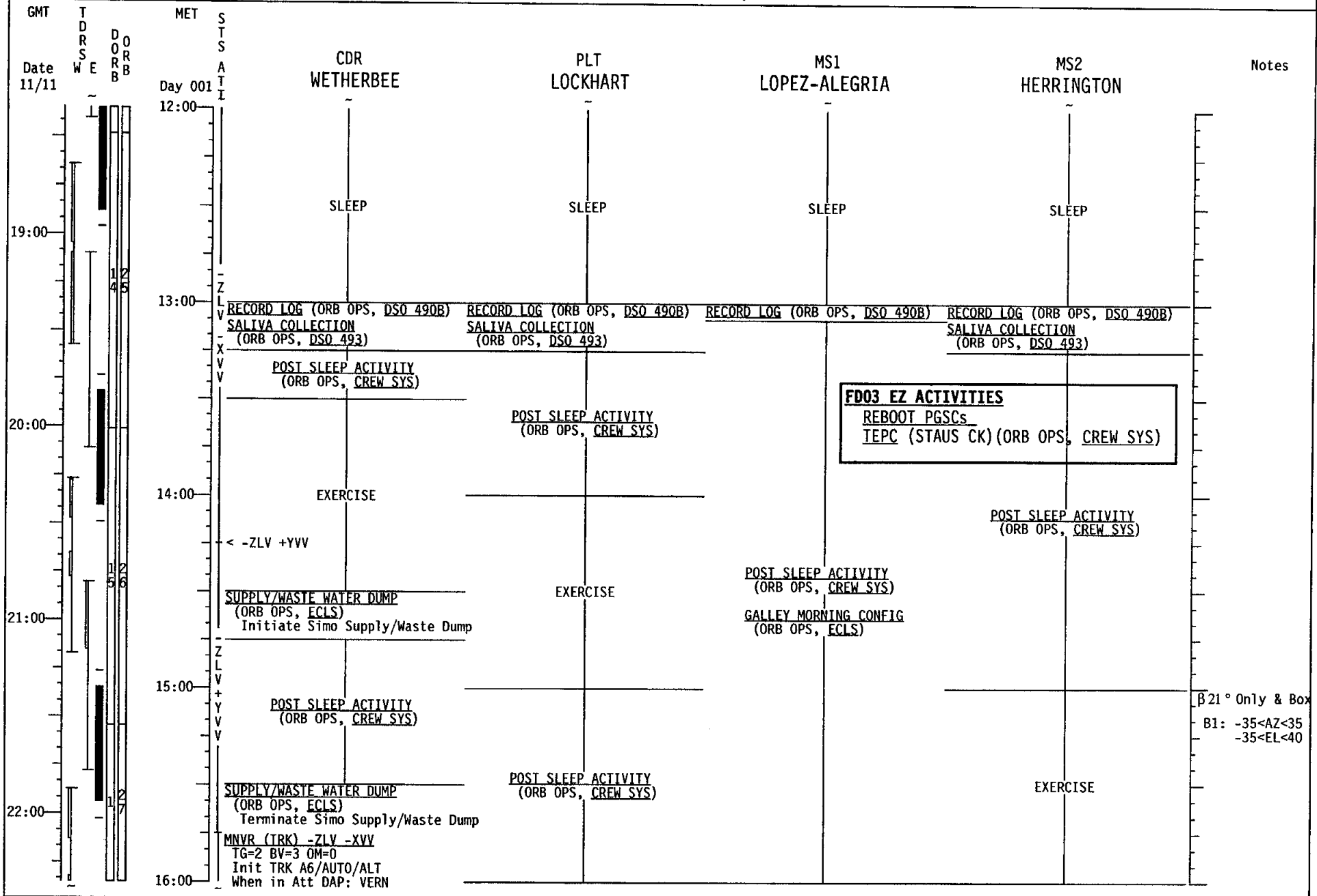
STS-113 (FD 02)



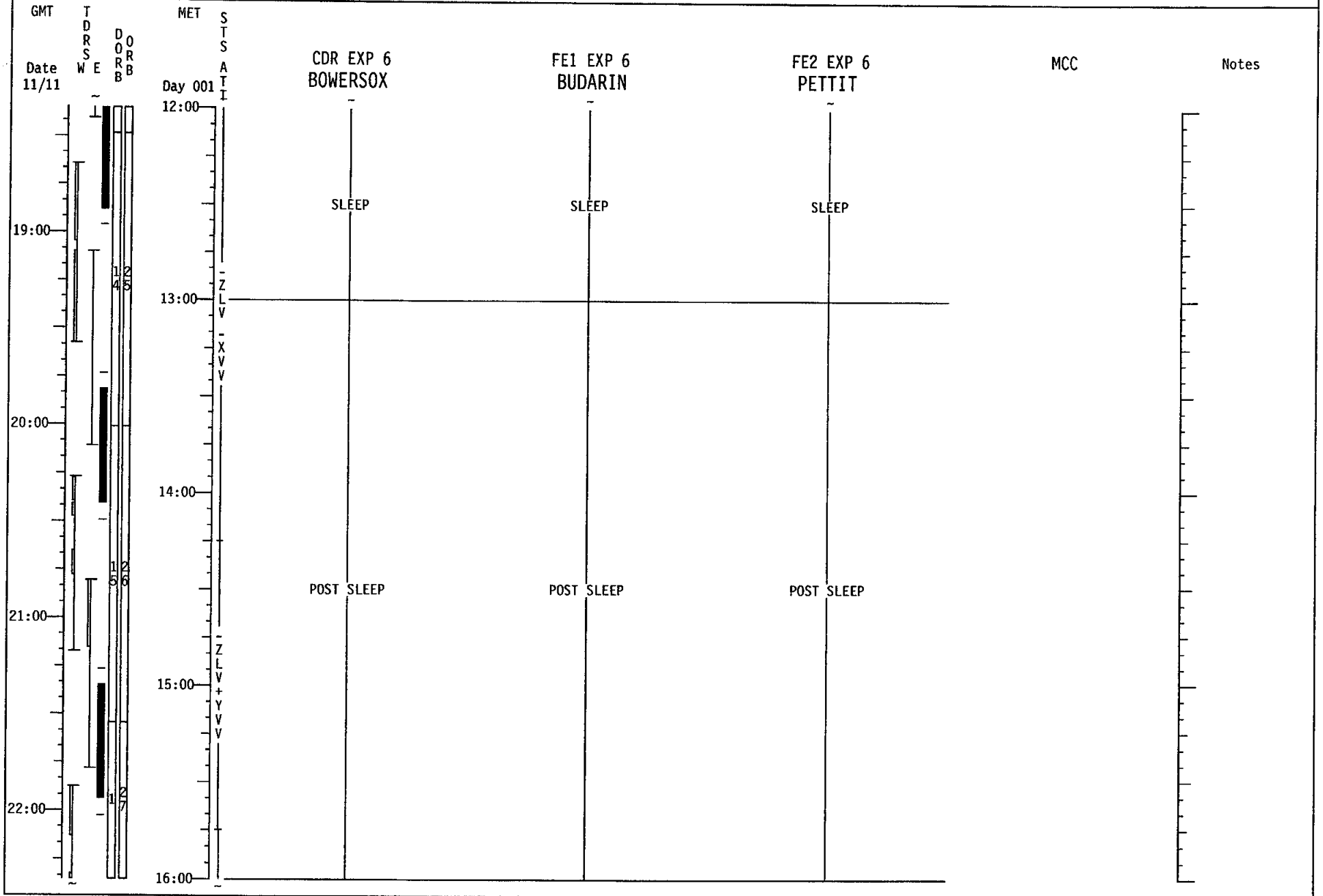
STS-113 (FD 02)

GMT Date 11/11	TDRS W E	DORB B	MET Day 001	STS ATTI	CDR EXP 6 BOWERSOX	FE1 EXP 6 BUDARIN	FE2 EXP 6 PETTIT	MCC	Notes
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">08:00</div> <div style="margin-bottom: 10px;">15:00</div> <div style="margin-bottom: 10px;">16:00</div> <div style="margin-bottom: 10px;">17:00</div> <div style="margin-bottom: 10px;">18:00</div> <div style="margin-bottom: 10px;">12:00</div> </div>			<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">08:00</div> <div style="margin-bottom: 10px;">09:00</div> <div style="margin-bottom: 10px;">10:00</div> <div style="margin-bottom: 10px;">11:00</div> <div style="margin-bottom: 10px;">12:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">Z</div> <div style="margin-bottom: 10px;">L</div> <div style="margin-bottom: 10px;">V</div> <div style="margin-bottom: 10px;">X</div> <div style="margin-bottom: 10px;">V</div> <div style="margin-bottom: 10px;">V</div> </div>	<p>SLEEP</p>	<p>SLEEP</p>	<p>SLEEP</p>		<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">1</div> <div style="margin-bottom: 10px;">2</div> <div style="margin-bottom: 10px;">3</div> <div style="margin-bottom: 10px;">4</div> <div style="margin-bottom: 10px;">5</div> <div style="margin-bottom: 10px;">6</div> <div style="margin-bottom: 10px;">7</div> <div style="margin-bottom: 10px;">8</div> <div style="margin-bottom: 10px;">9</div> <div style="margin-bottom: 10px;">10</div> <div style="margin-bottom: 10px;">11</div> <div style="margin-bottom: 10px;">12</div> <div style="margin-bottom: 10px;">13</div> <div style="margin-bottom: 10px;">14</div> <div style="margin-bottom: 10px;">15</div> <div style="margin-bottom: 10px;">16</div> <div style="margin-bottom: 10px;">17</div> <div style="margin-bottom: 10px;">18</div> <div style="margin-bottom: 10px;">19</div> <div style="margin-bottom: 10px;">20</div> <div style="margin-bottom: 10px;">21</div> <div style="margin-bottom: 10px;">22</div> <div style="margin-bottom: 10px;">23</div> <div style="margin-bottom: 10px;">24</div> </div>

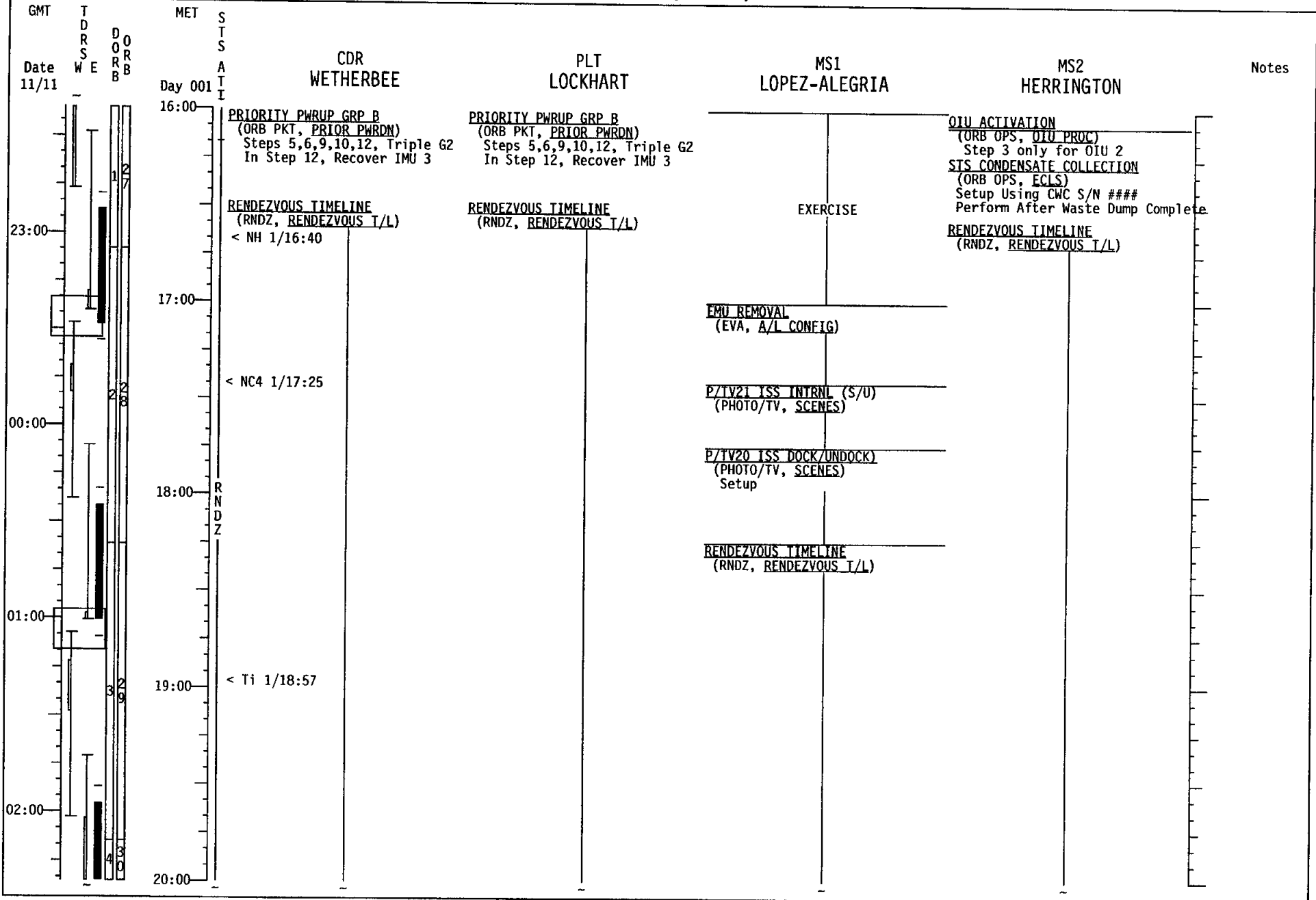
STS-113 (FD 03)



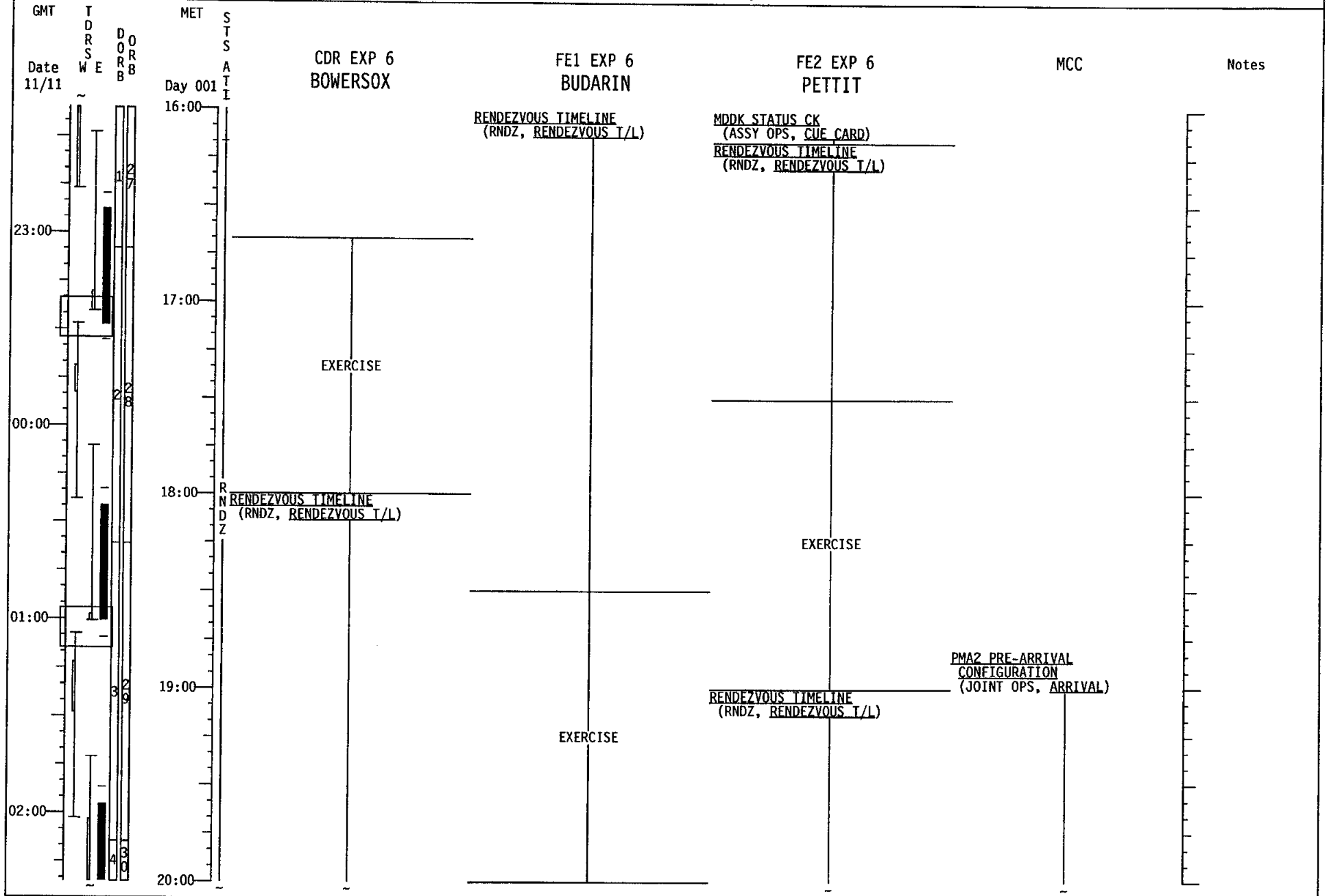
STS-113 (FD 03)



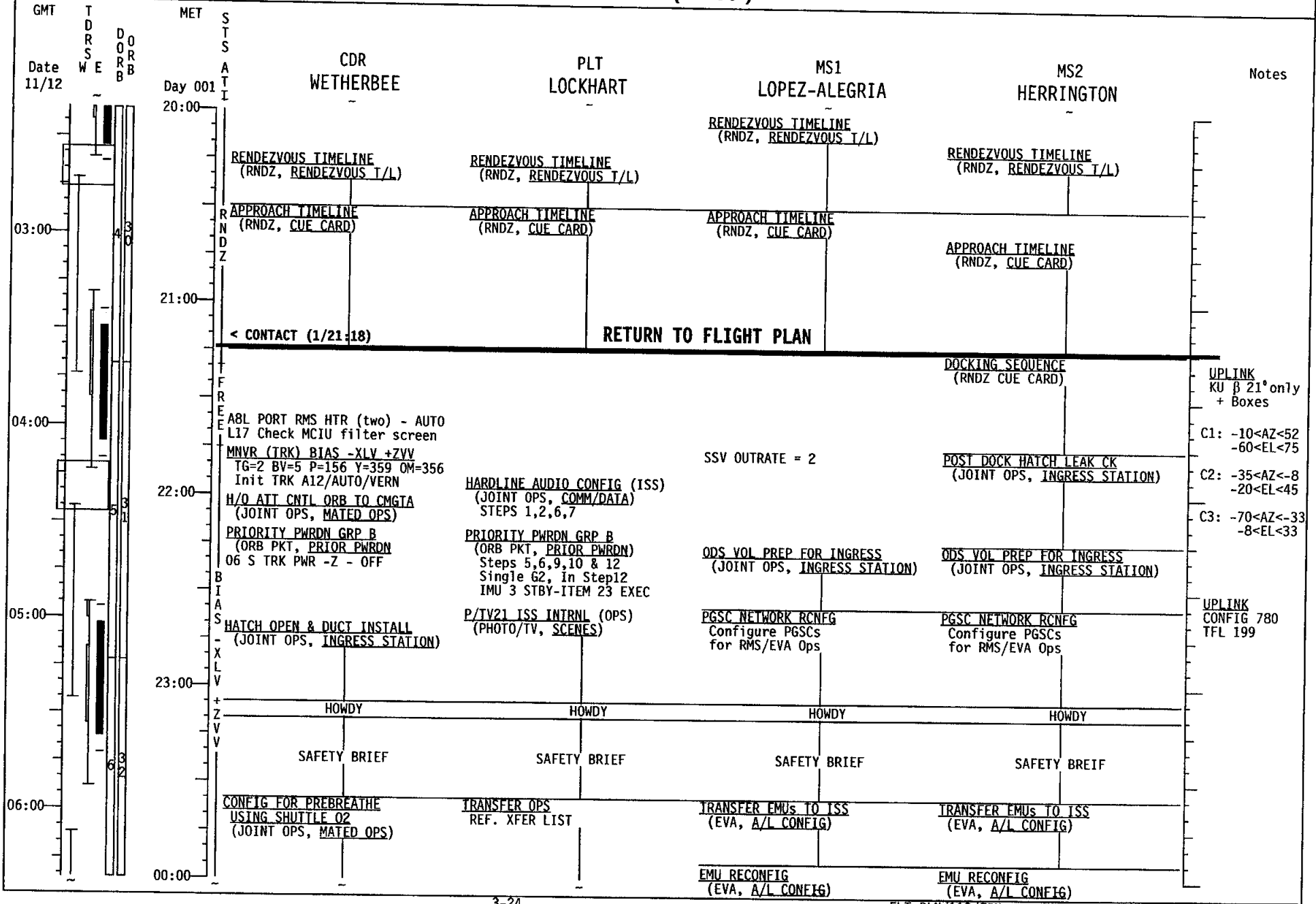
STS-113 (FD 03)



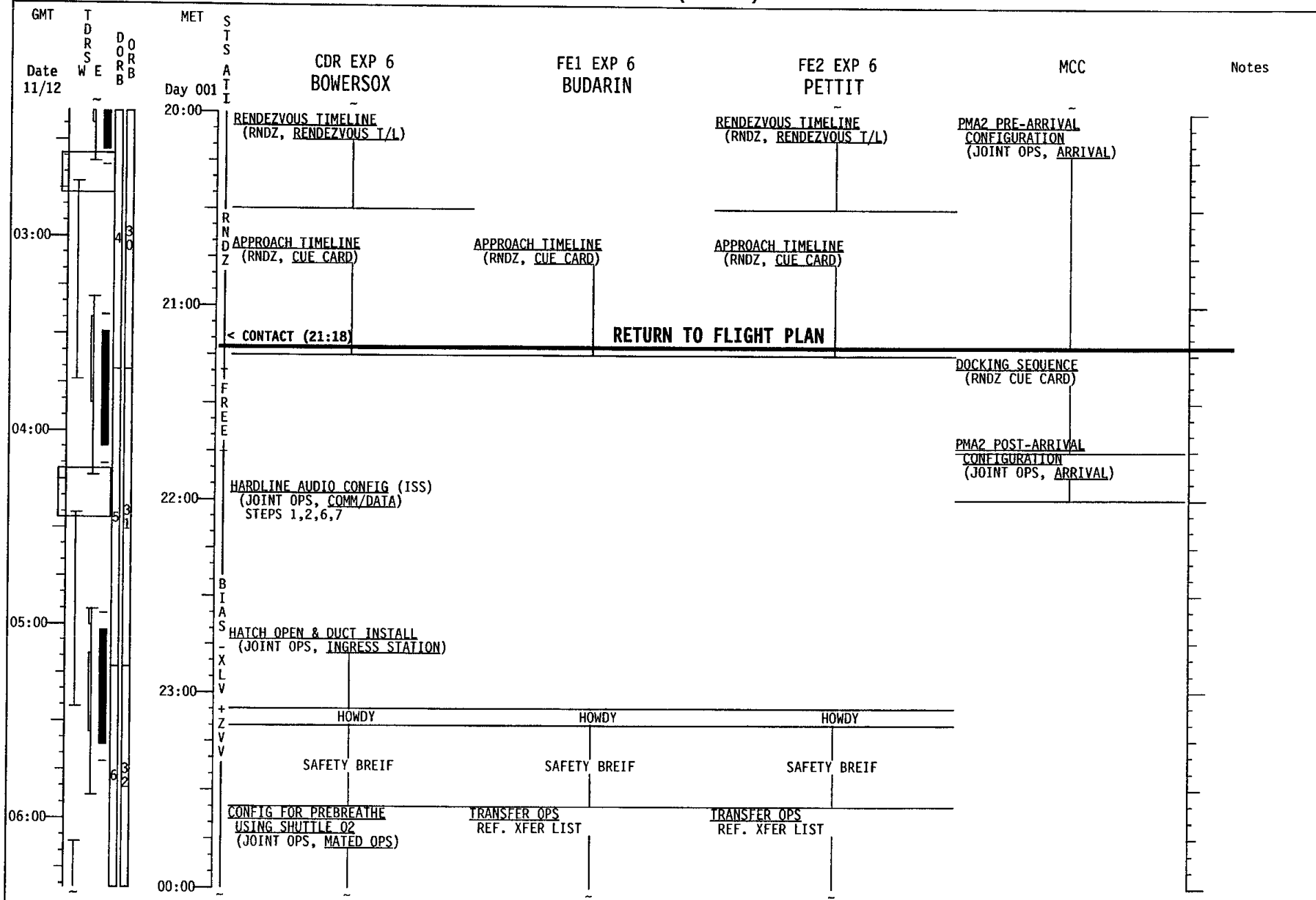
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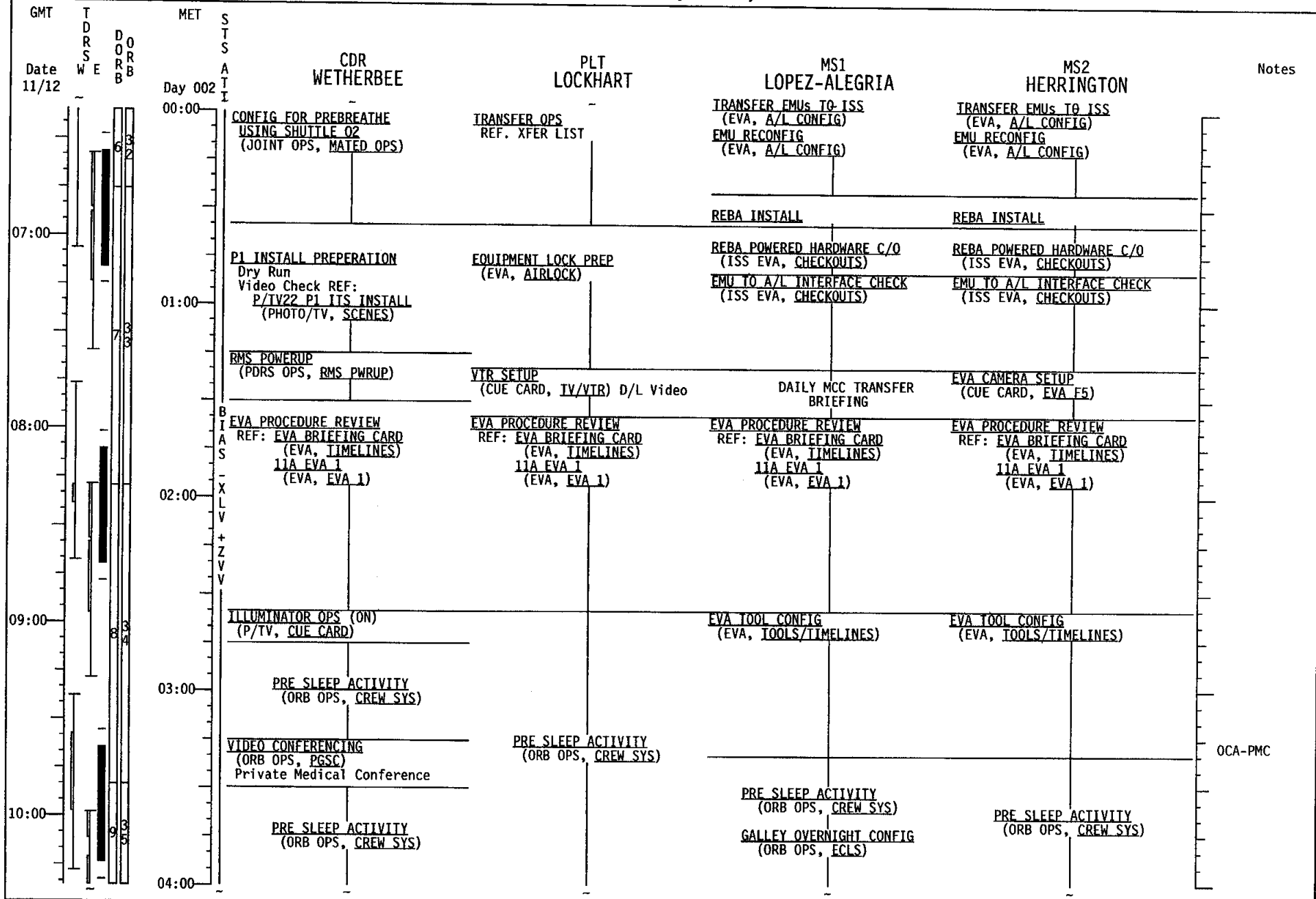
STS-113 (FD 03)



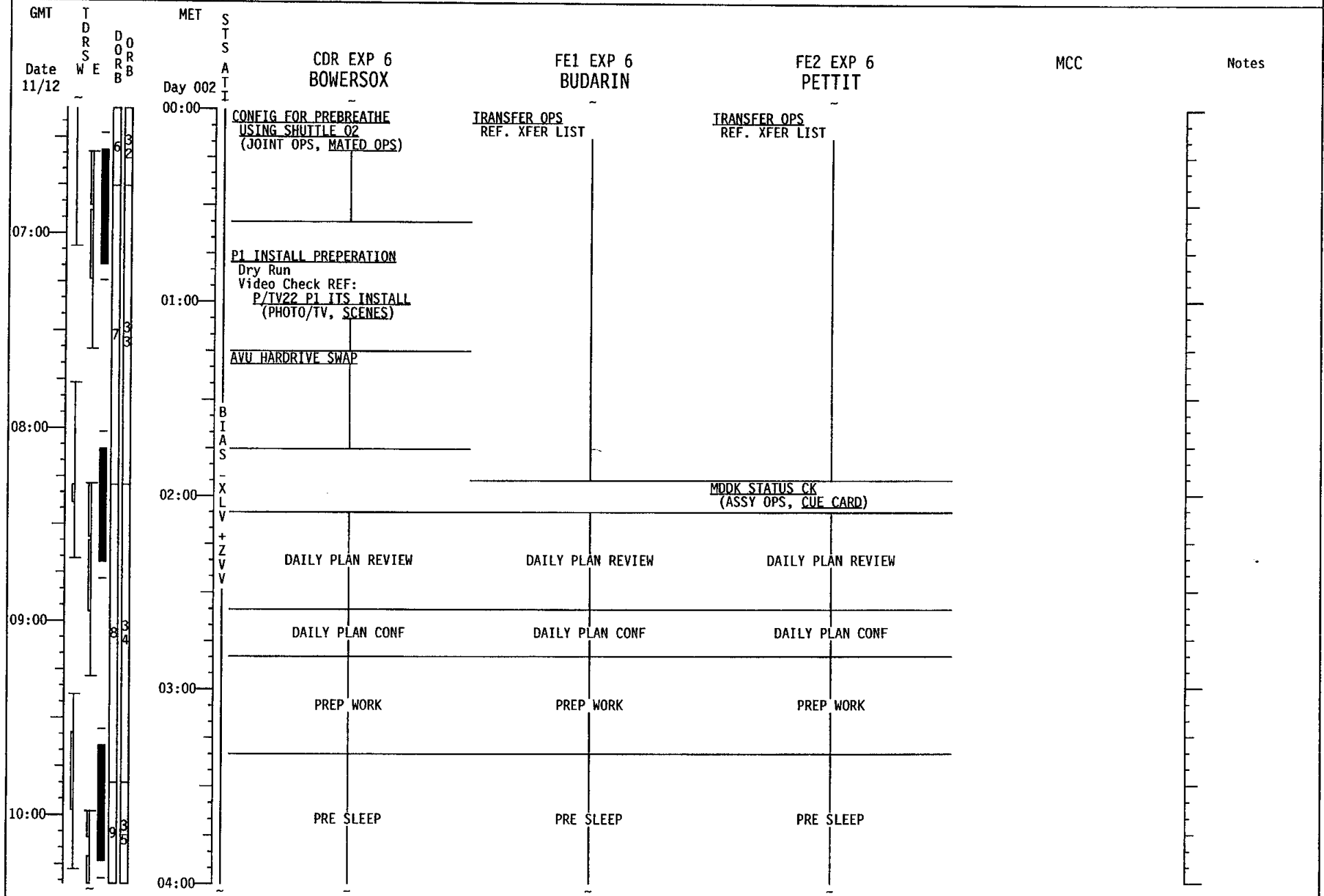
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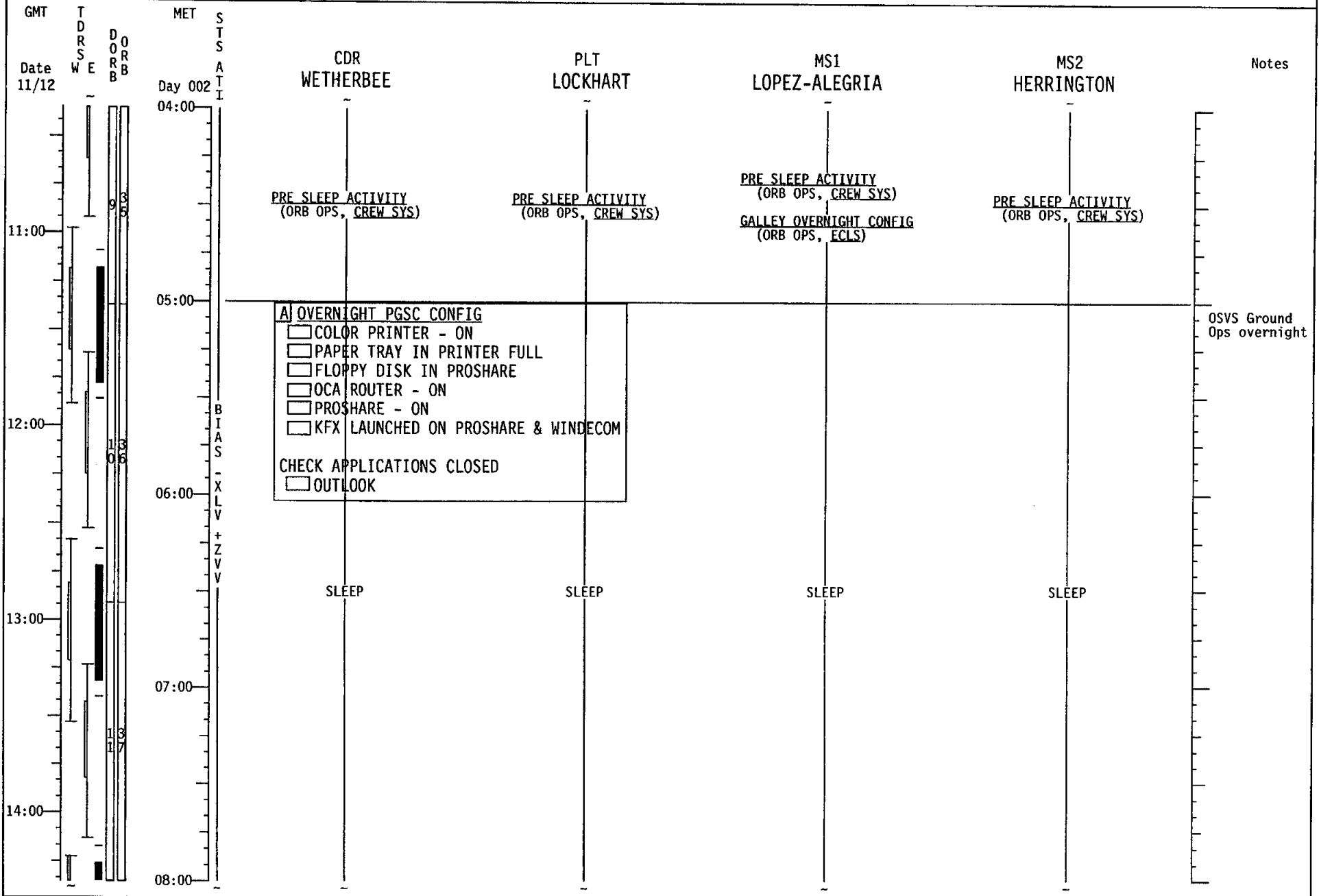
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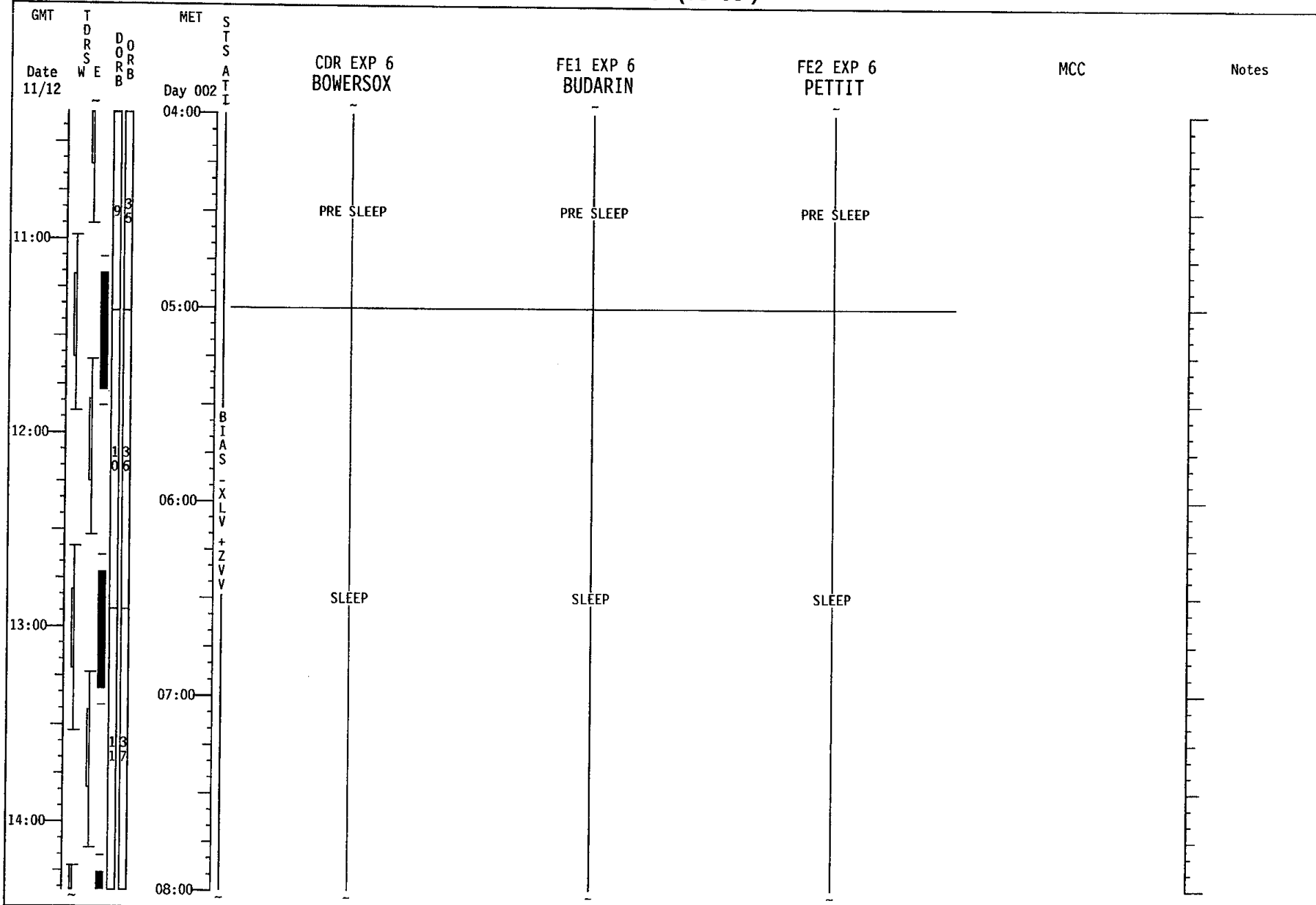
STS-113 (FD 03)



STS-113 (FD03)



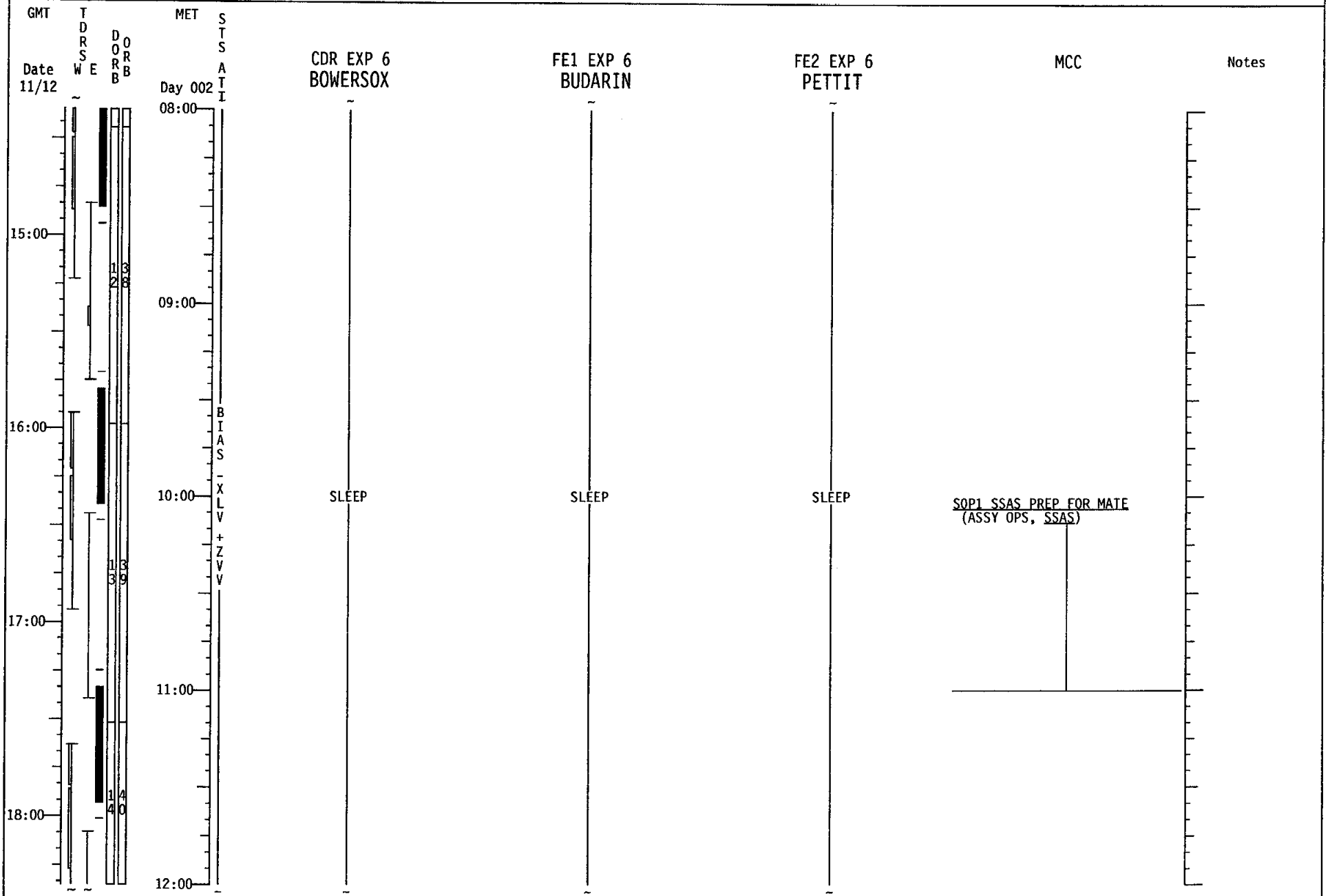
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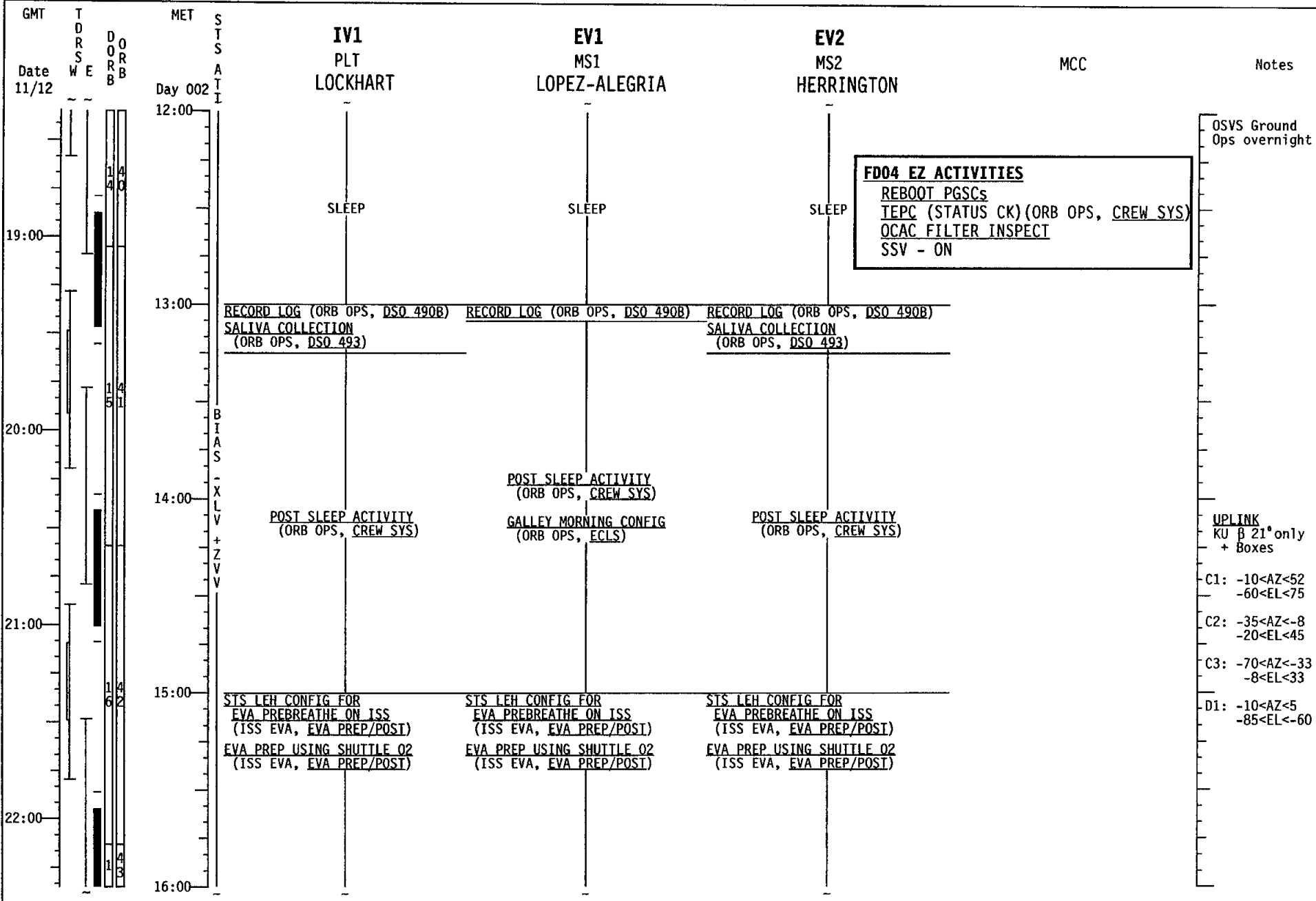
STS-113 (FD 03)

GMT Date 11/12	TDRS W E	DORB B	MET Day 002	STS A T I	CDR WETHERBEE	PLT LOCKHART	MS1 LOPEZ-ALEGRIA	MS2 HERRINGTON	Notes
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">08:00</div> <div style="margin-bottom: 10px;">15:00</div> <div style="margin-bottom: 10px;">16:00</div> <div style="margin-bottom: 10px;">17:00</div> <div style="margin-bottom: 10px;">18:00</div> <div style="margin-bottom: 10px;">12:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">08:00</div> <div style="margin-bottom: 10px;">09:00</div> <div style="margin-bottom: 10px;">10:00</div> <div style="margin-bottom: 10px;">11:00</div> <div style="margin-bottom: 10px;">12:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">138</div> <div style="margin-bottom: 10px;">28</div> <div style="margin-bottom: 10px;">139</div> <div style="margin-bottom: 10px;">40</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">08:00</div> <div style="margin-bottom: 10px;">09:00</div> <div style="margin-bottom: 10px;">10:00</div> <div style="margin-bottom: 10px;">11:00</div> <div style="margin-bottom: 10px;">12:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">B</div> <div style="margin-bottom: 10px;">I</div> <div style="margin-bottom: 10px;">A</div> <div style="margin-bottom: 10px;">S</div> <div style="margin-bottom: 10px;">-</div> <div style="margin-bottom: 10px;">X</div> <div style="margin-bottom: 10px;">L</div> <div style="margin-bottom: 10px;">V</div> <div style="margin-bottom: 10px;">+</div> <div style="margin-bottom: 10px;">Z</div> <div style="margin-bottom: 10px;">V</div> <div style="margin-bottom: 10px;">V</div> </div>	<p>SLEEP</p>	<p>SLEEP</p>	<p>SLEEP</p>	<p>SLEEP</p>	<div style="margin-bottom: 10px;">OSVS Ground Ops overnight</div>

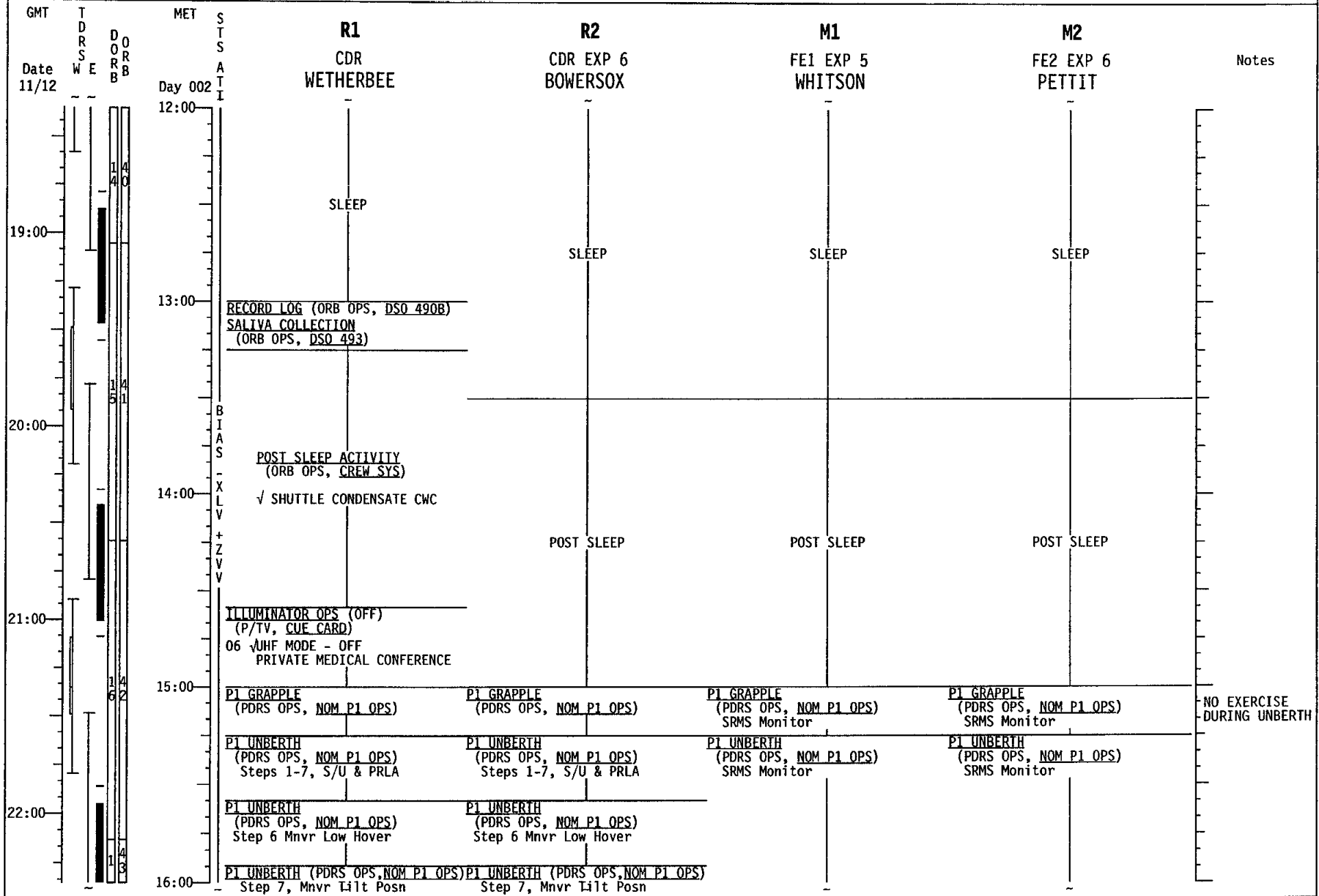
STS-113 (FD 03)



STS-113 (FD 04)



STS-113 (FD 04)



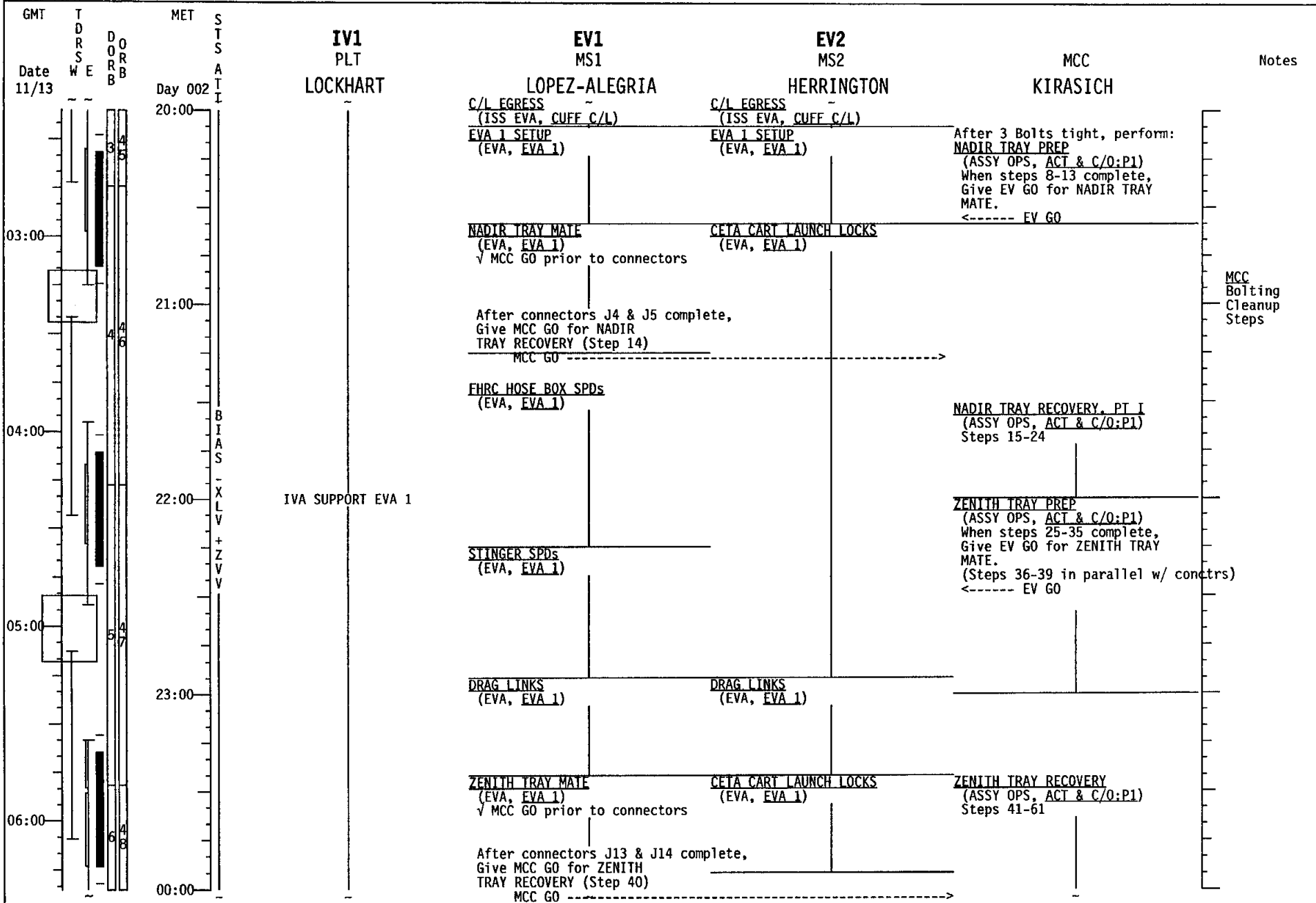
STS-113 (FD 04)

GMT Date 11/12	TDRS W E	DORB	MET Day 002	S T A T I	IV1 PLT LOCKHART	EV1 MS1 LOPEZ-ALEGRIA	EV2 MS2 HERRINGTON	MCC KIRASICH	Notes
			16:00		EVA PREP USING SHUTTLE 02 (ISS EVA, EVA PREP/POST)	EVA PREP USING SHUTTLE 02 (ISS EVA, EVA PREP/POST)	EVA PREP USING SHUTTLE 02 (ISS EVA, EVA PREP/POST)		
23:00		1 4 3							NODE 1 STBD HATCH - CL UPLINK KU β 21° only + Boxes
			17:00						C1: -10<AZ<52 -60<EL<75
									C2: -35<AZ<-8 -20<EL<45
00:00				B I A S					C3: -70<AZ<-33 -8<EL<33
			18:00	X L	V EMU PURGE (ISS EVA, EVA PREP) Steps 5-7 Equalize E/L to + 14.7 PSI	V EMU PURGE (ISS EVA, EVA PREP/POST)	V EMU PURGE (ISS EVA, EVA PREP/POST)		
		2 4 4			V EMU PREBREATHE (ISS EVA, EVA PREP/POST)	V EMU PREBREATHE (ISS EVA, EVA PREP/POST)	V EMU PREBREATHE (ISS EVA, EVA PREP/POST)		NODE 1 STBD HATCH - OP
01:00								EVA 1 INHIBIT PAD (EVA, EVA 1)	
			19:00		CREWLOCK DEPRESS (ISS EVA, DPRS/RPRS CC)	CREWLOCK DEPRESS (ISS EVA, DPRS/RPRS CC)	CREWLOCK DEPRESS (ISS EVA, DPRS/RPRS CC)		
		3 4 5			At 2 of 4 bolts tight, EV are GO for POST DEPRESS				
02:00					POST DPRESS (DPRS/RPRS CC)	POST DPRESS (DPRS/RPRS CC)	POST DPRESS (DPRS/RPRS CC)		
			20:00		IVA SUPPORT EVA 1	C/L EGRESS (ISS EVA, CUFF C/L)	C/L EGRESS (ISS EVA, CUFF C/L)		

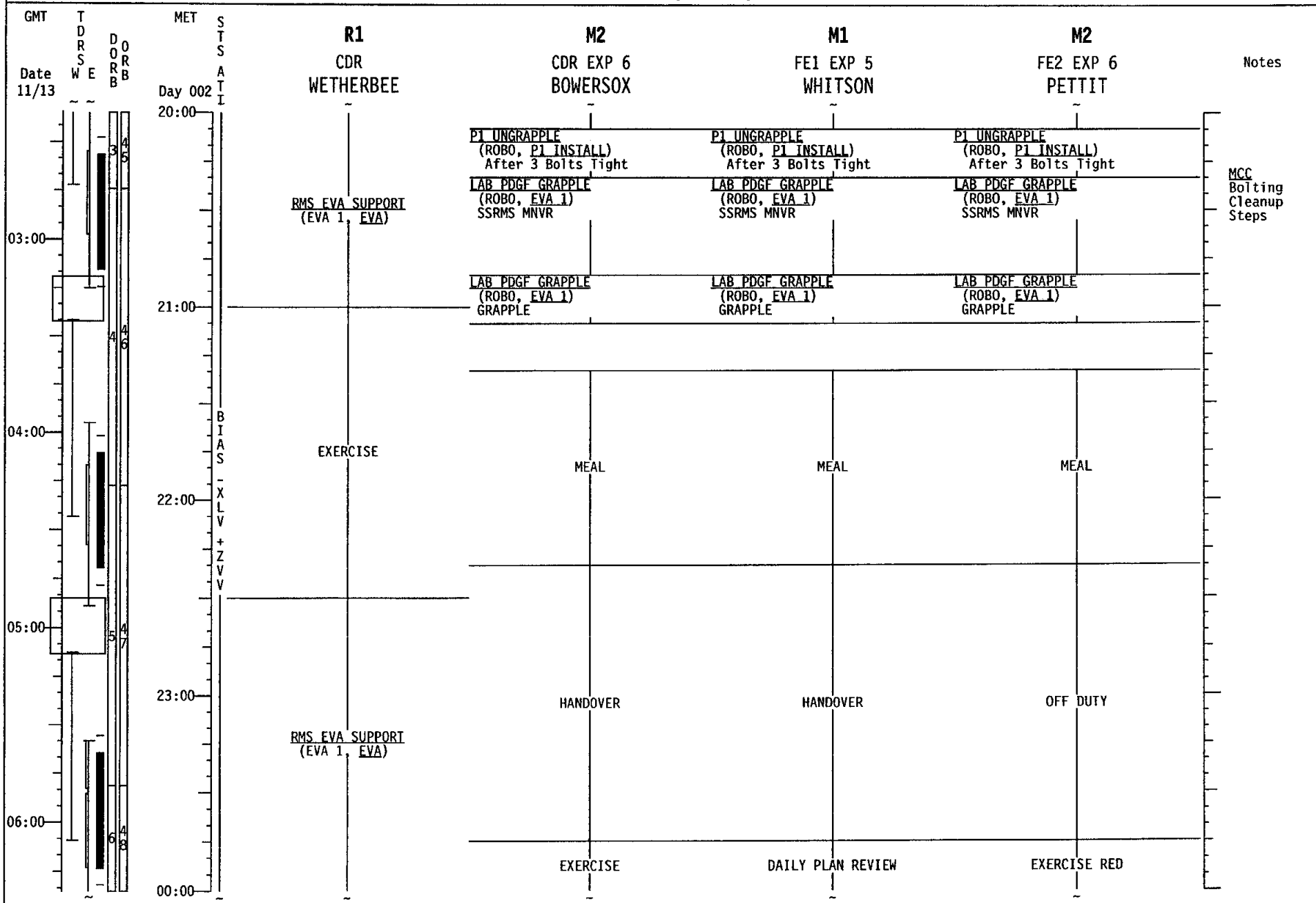
STS-113 (FD 04)

GMT Date 11/12	T D R S W E	D O R R B	MET Day 002	S T S A T I	R1 CDR WETHERBEE	R2 CDR EXP 6 BOWERSOX	M1 FE1 EXP 5 WHITSON	M2 FE2 EXP 6 PETTIT	Notes
			16:00		P1 UNBERTH (PDRS OPS, NOM P1 OPS) Step 7, Mnvr Tilt Posn	P1 UNBERTH (PDRS OPS, NOM P1 OPS) Step 7, Mnvr Tilt Posn	P1 UNBERTH (PDRS OPS, NOM P1 OPS) SRMS Monitor	P1 UNBERTH (PDRS OPS, NOM P1 OPS) SRMS Monitor	
					P1 UNBERTH (PDRS OPS, NOM P1 OPS) Step 8, Mnvr to Arc Posn	P1 UNBERTH (PDRS OPS, NOM P1 OPS) Step 8, Mnvr to Arc Posn			
			23:00		P1 HANDOFF (PDRS OPS, NOM P1 OPS)	P1 HANDOFF (PDRS OPS, NOM P1 OPS)	P1 HANDOFF (PDRS OPS, NOM P1 OPS) SRMS Monitor	P1 HANDOFF (PDRS OPS, NOM P1 OPS) SRMS Monitor	
					OSVS POWERUP (PDRS, OSVS OPS)		P1 HANDOFF (ROBO, P1 INSTALL)	P1 HANDOFF (ROBO, P1 INSTALL)	
			17:00		RMS P1 UNGRAPPLE (PDRS OPS, NOM P1 OPS)	RMS P1 UNGRAPPLE (PDRS OPS, NOM P1 OPS)	RMS P1 UNGRAPPLE Monitor (PDRS OPS, NOM P1 OPS)	RMS P1 UNGRAPPLE Monitor (PDRS OPS, NOM P1 OPS)	
					P1 - SO MATE VIEWING (PDRS OPS, NOM P1 OPS)	M2			
					OSVS WT FOCAL LEN SETUP (PDRS, OSVS OPS)	P1 INSTALL (ROBO, P1 INSTALL) AUTO MNVR to Approach Corridor	P1 INSTALL (ROBO, P1 INSTALL) AUTO MNVR to Approach Corridor	P1 INSTALL (ROBO, P1 INSTALL) AUTO MNVR to Approach Corridor	
			00:00		ASVS P1 INSTALL SETUP (PDRS, OSVS OPS) Steps 1-8 only	MNVR to Pre-Install	MNVR to Pre-Install	MNVR to Pre-Install	
						SOP1 SSAS NORMAL MATE (ASSY OPS, SSAS) Steps 1-5		SOP1 SSAS NORMAL MATE (ASSY OPS, SSAS) Steps 1-5	
			18:00			P1 INSTALL (ROBO, P1 INSTALL) Mnvr to RTL	P1 INSTALL (ROBO, P1 INSTALL) Mnvr to RTL	P1 INSTALL (ROBO, P1 INSTALL) Mnvr to RTL	
					P/TV23 EVA (SETUP) (PHOTO/TV, SCENES)				
			01:00			SOP1 SSAS NORMAL MATE Steps 5-9, 1st Stage Capture	SOP1 SSAS NORMAL MATE Steps 5-9, 1st Stage Capture	SOP1 SSAS NORMAL MATE Steps 5-9, 1st Stage Capture	
					EVA 1 INHIBIT PAD (EVA, EVA 1)	P1 INSTALL (ROBO, P1 INSTL) Limp SOP1 SSAS NORMAL MATE Step 10-12, 2nd Stage Cap	P1 INSTALL (ROBO, P1 INSTL) Limp SOP1 SSAS NORMAL MATE Step 10-12, 2nd Stage Cap	P1 INSTALL (ROBO, P1 INSTL) Limp SOP1 SSAS NORMAL MATE Step 10-12, 2nd Stage Cap	
			19:00		Permanently edit DAPS DAP A12 - CNTL ACCL 5 B12 - CNTL ACCL 6 OSVS P1 INSTALL SETUP (PDRS, OSVS OPS) Steps 9 and 10 OSVS POWERDOWN (PDRS, OSVS OPS) SUPPLY WATER DUMP USING FES (ORB OPS, ECLS) Perform step 1	SOP1 SSAS NORMAL MATE (ASSY OPS, SSAS) Steps 13-15. After 3 bolts tight, Give MCC "Go for NADIR TRAY POWERDOWN"	SOP1 SSAS NORMAL MATE (ASSY OPS, SSAS) Steps 13-15. After 3 bolts tight, Give MCC "Go for NADIR TRAY POWERDOWN"	SOP1 SSAS NORMAL MATE (ASSY OPS, SSAS) Steps 13-15. After 3 bolts tight, Give MCC "Go for NADIR TRAY POWERDOWN"	
			02:00						
			20:00		RMS EVA SUPPORT (EVA 1, EVA)				

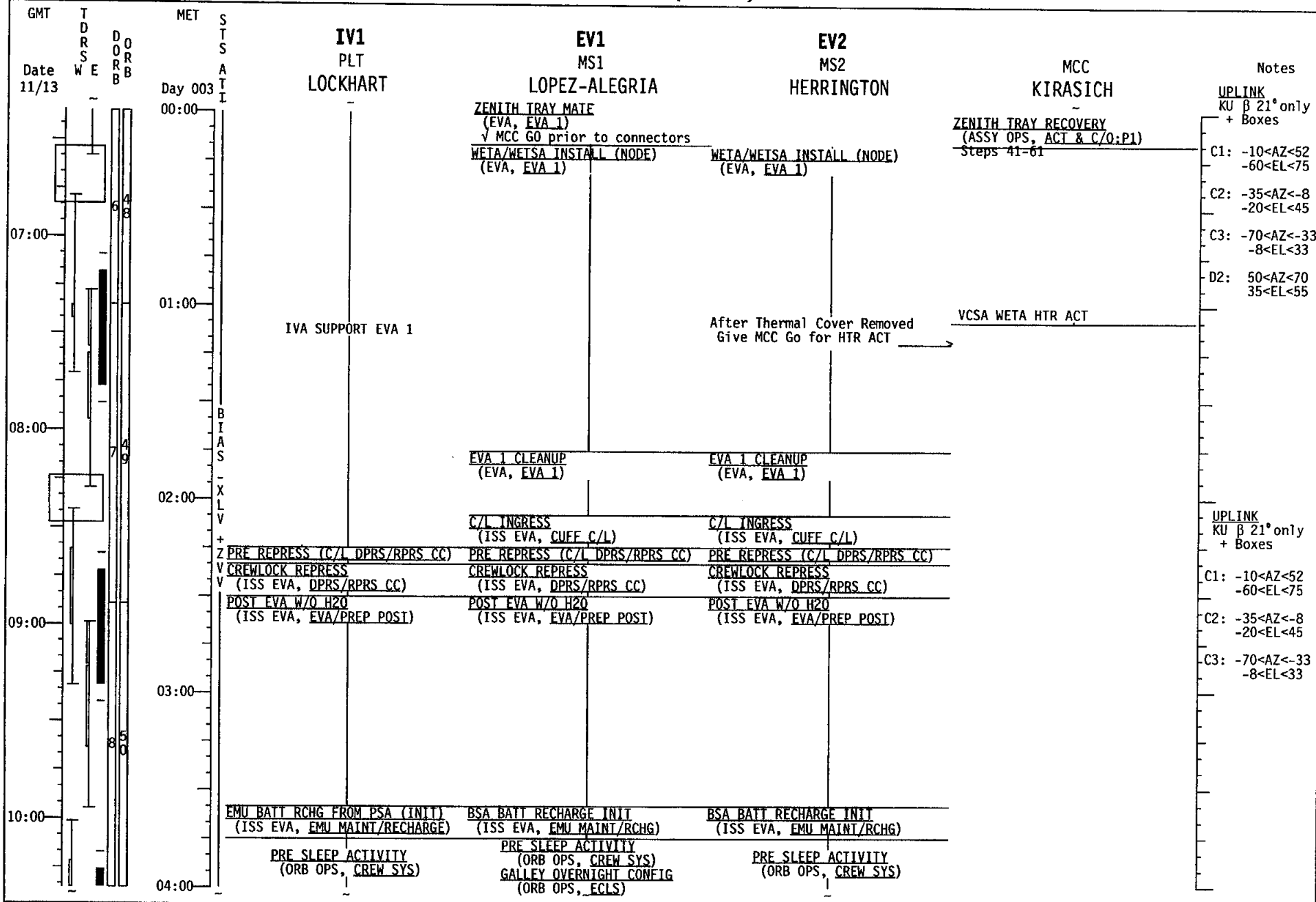
STS-113 (FD 04)



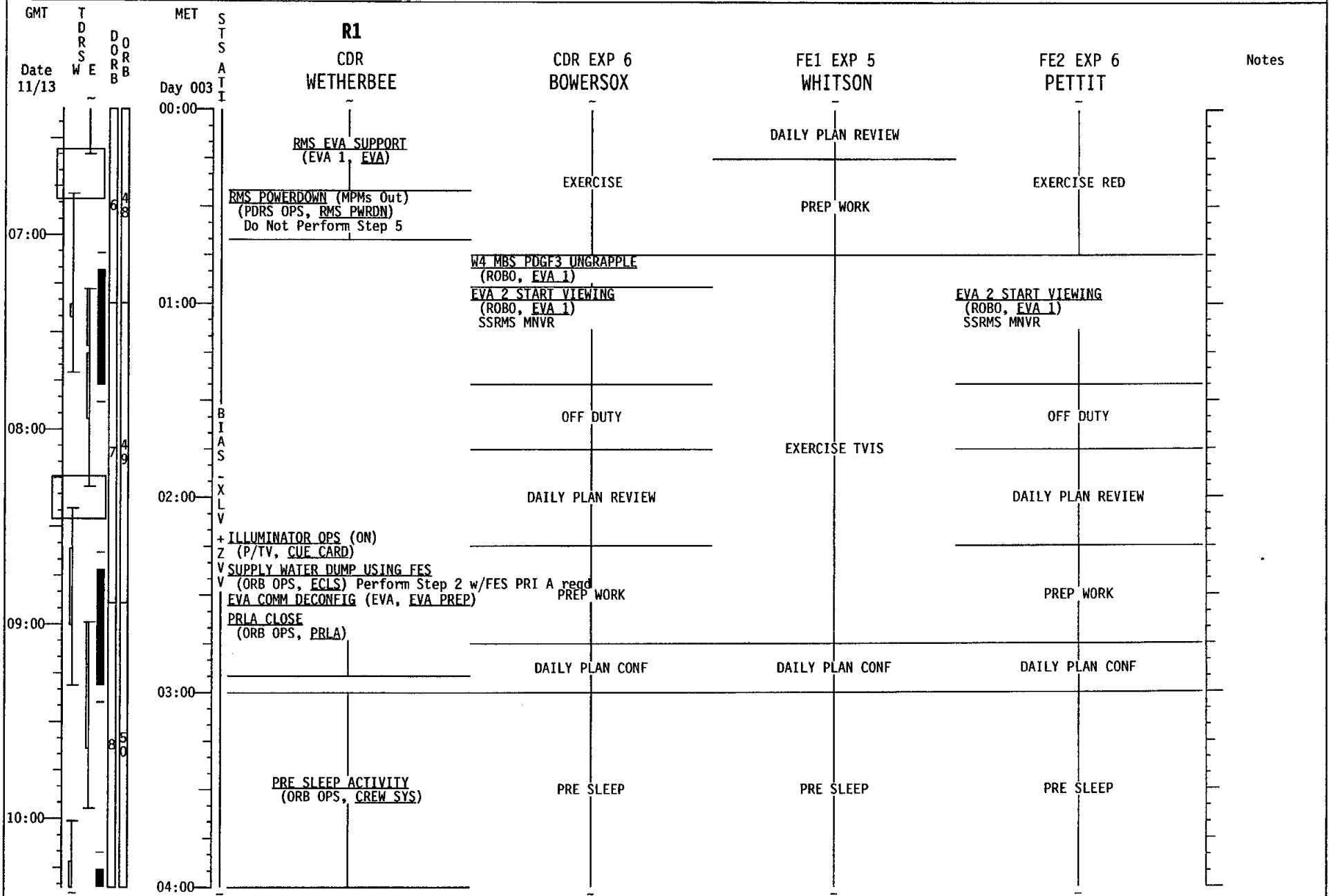
STS-113 (FD 04)



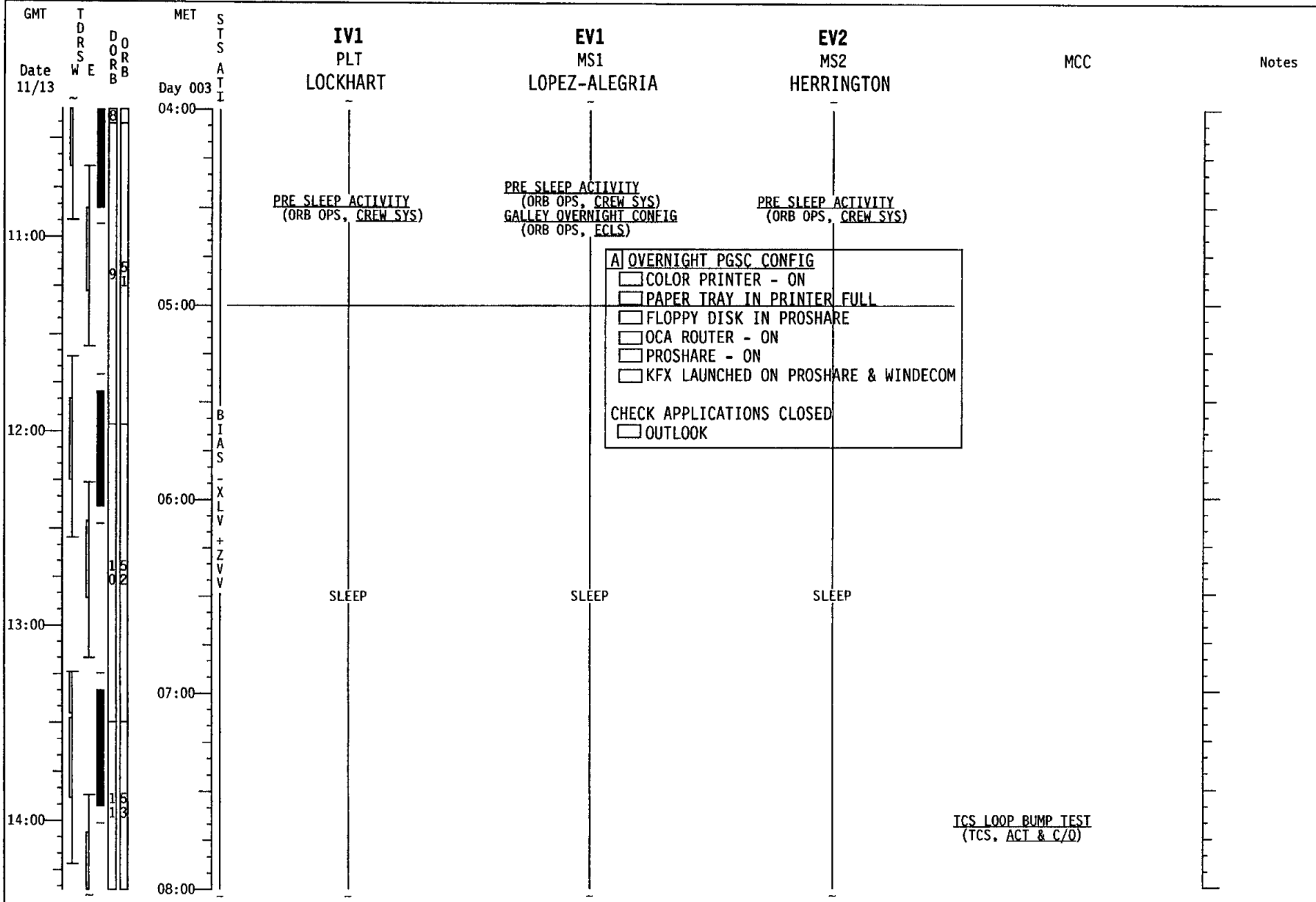
STS-113 (FD 04)



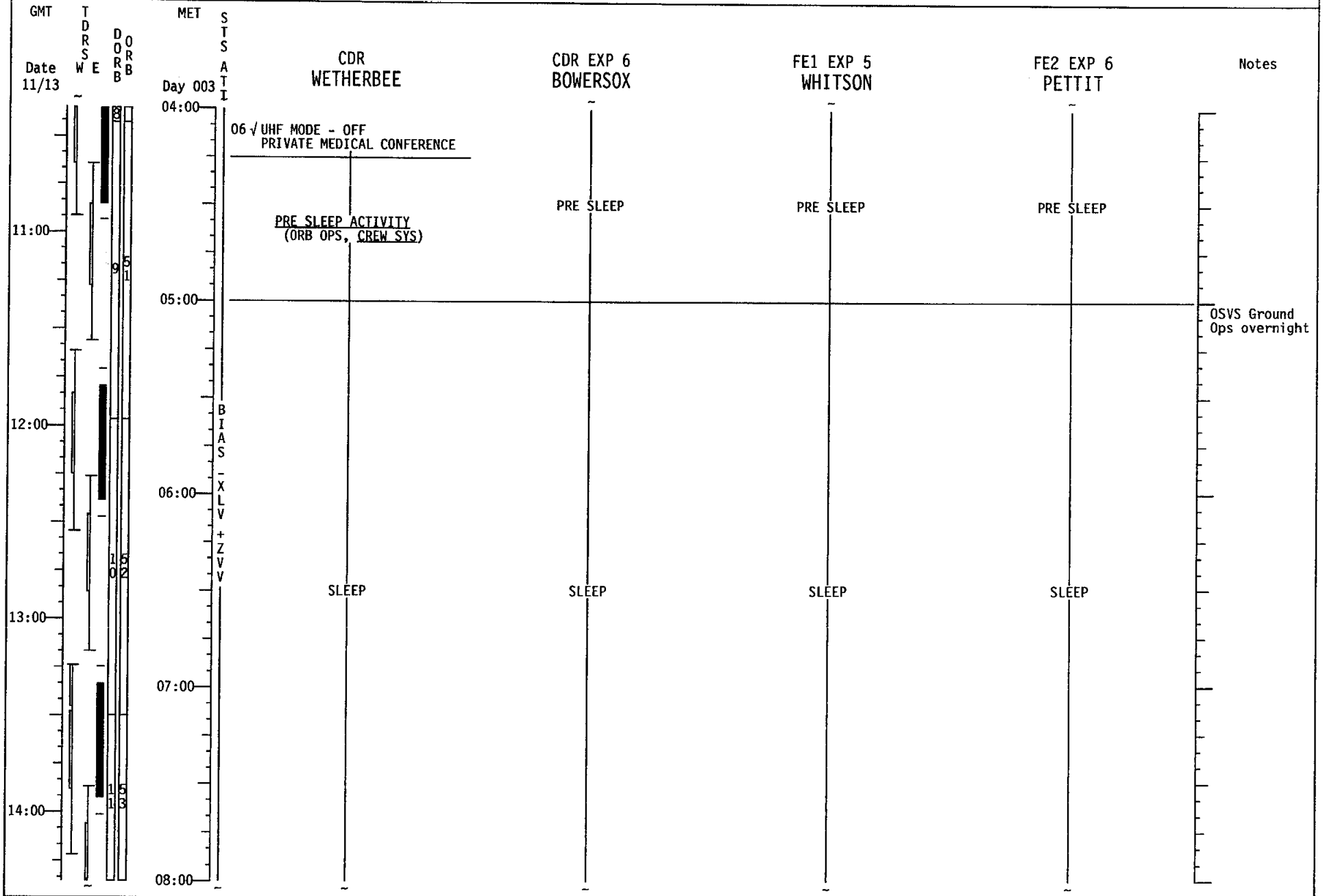
STS-113 (FD 04)



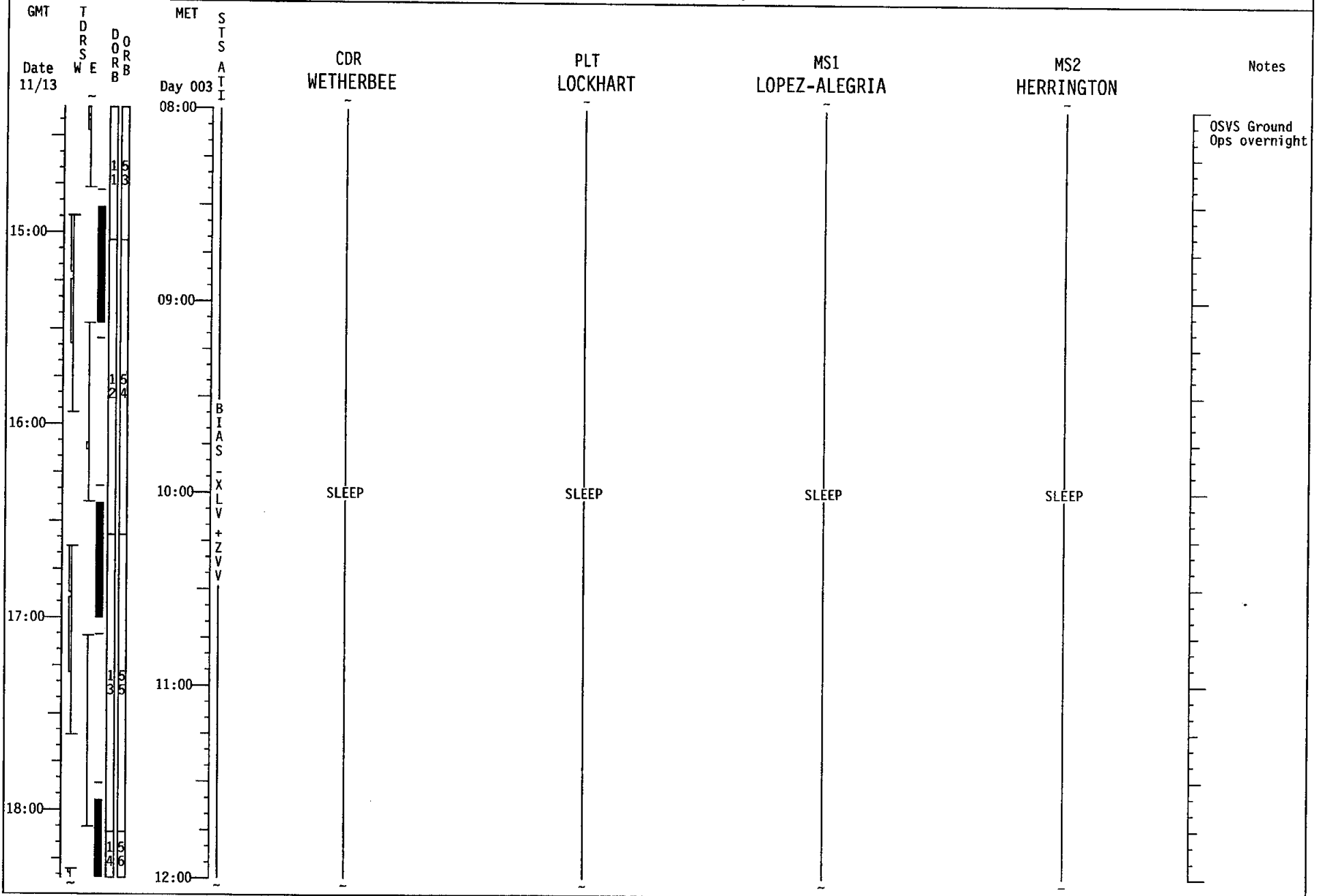
STS-113 (FD 04)



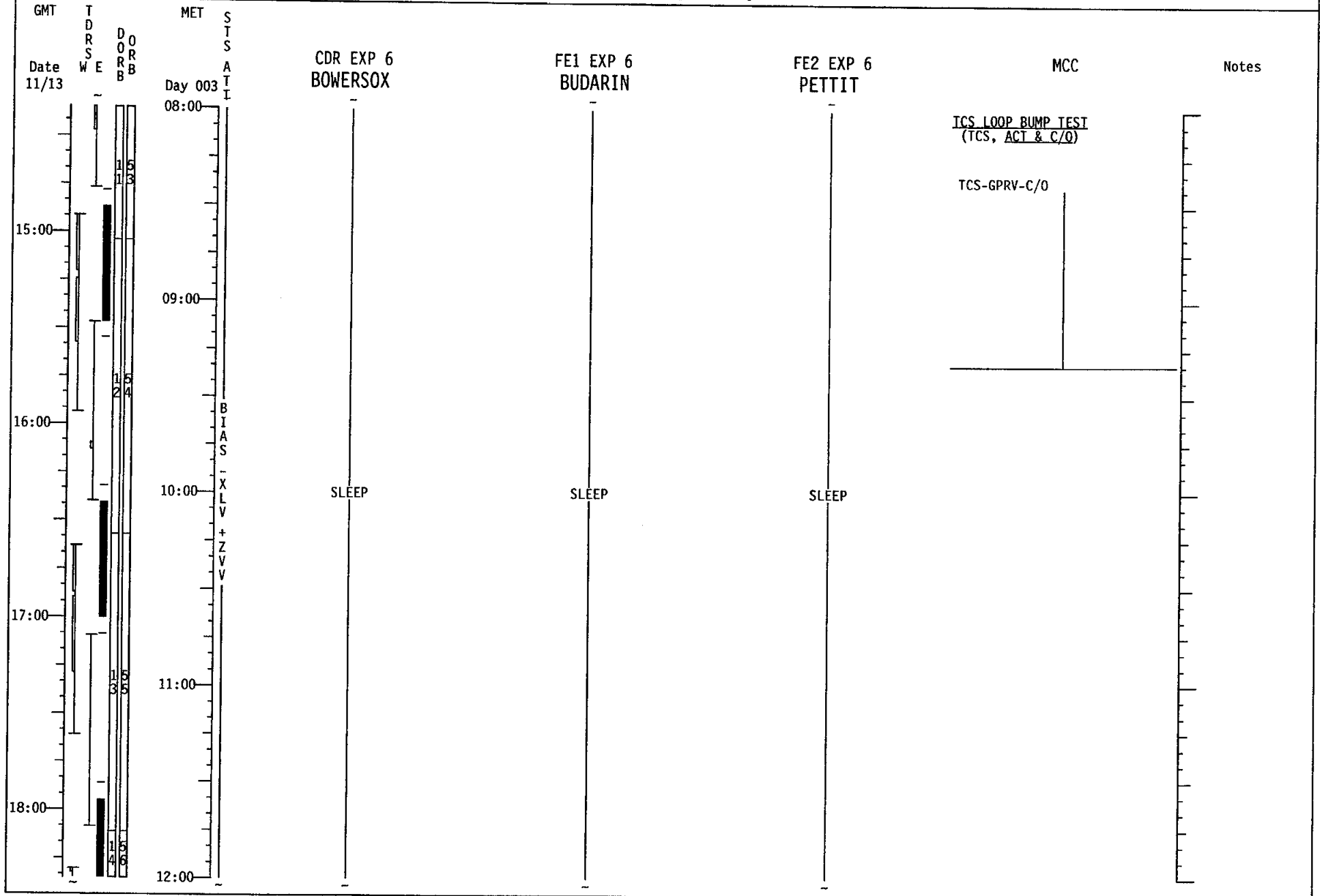
STS-113 (FD04)



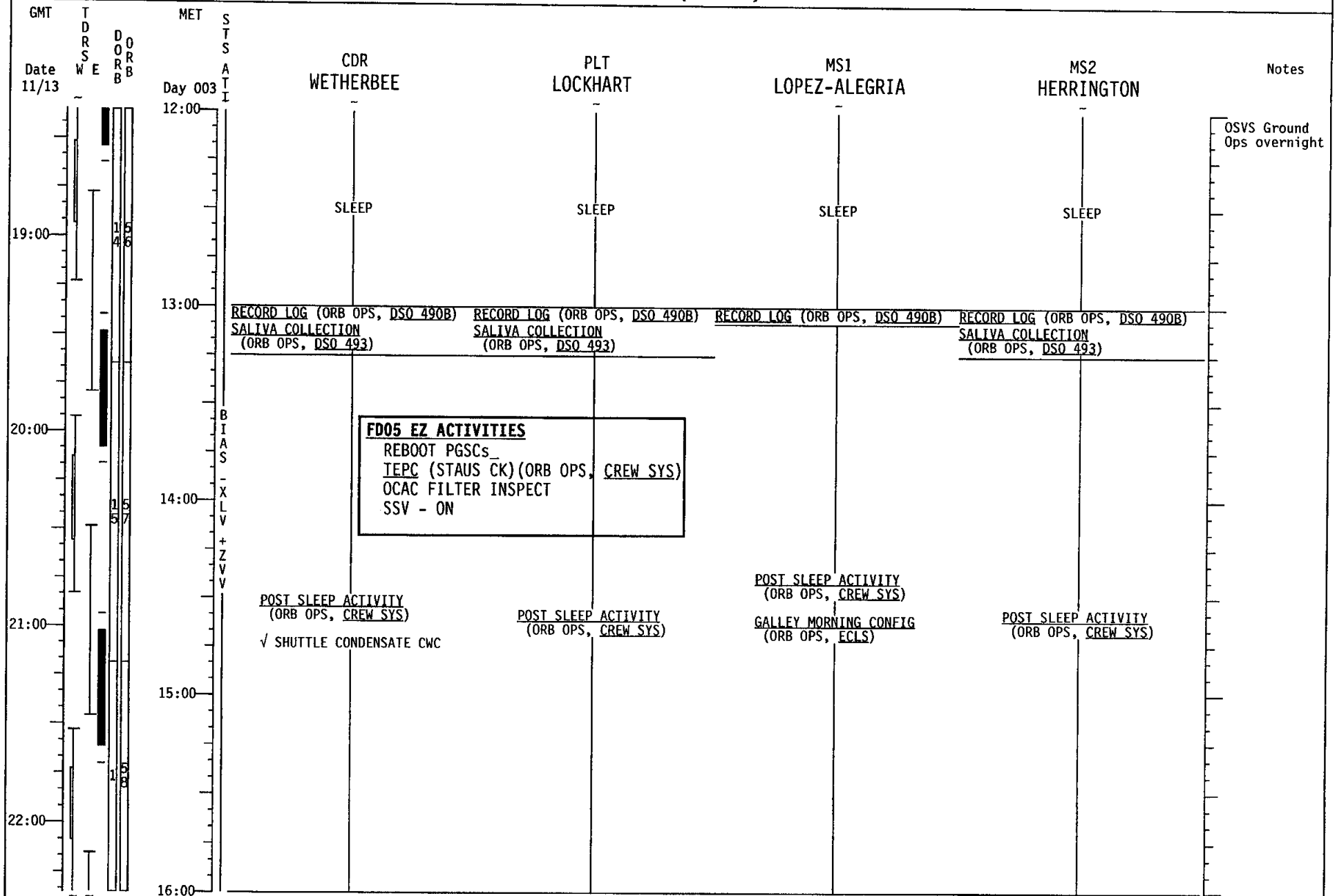
STS-113 (FD 04)



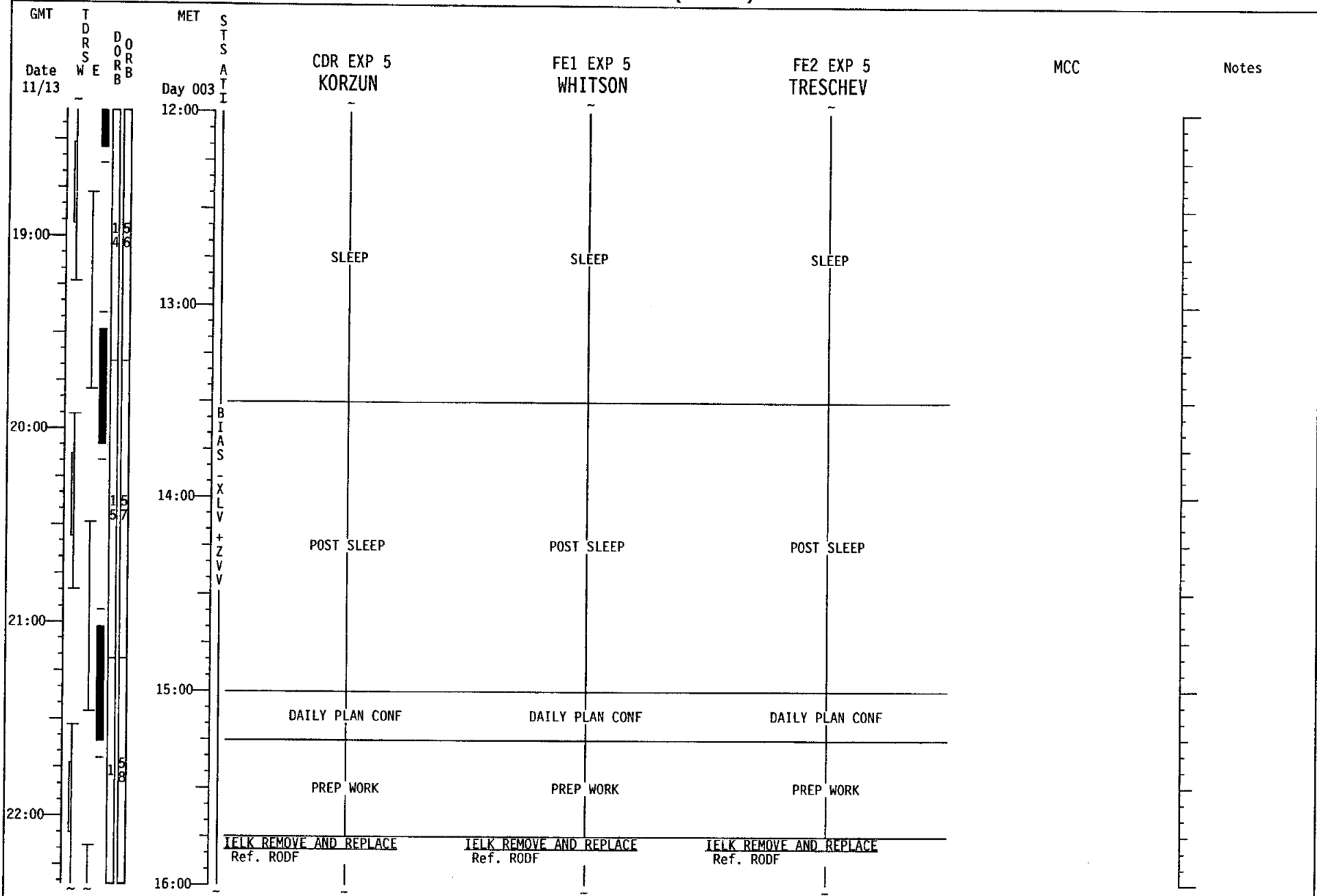
STS-113 (FD 04)



STS-113 (FD 05)



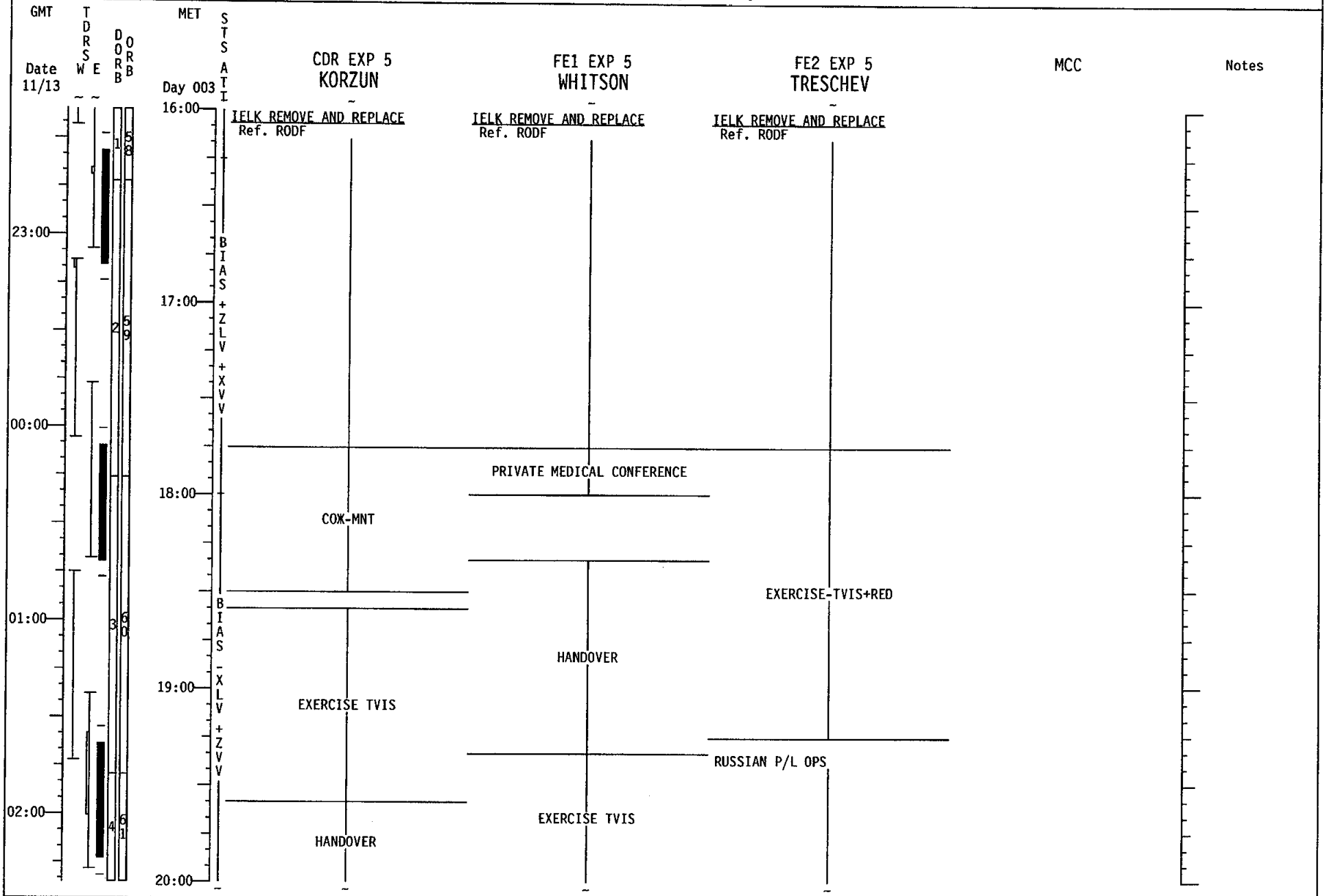
STS-113 (FD 05)



STS-113 (FD 05)

GMT Date 11/13	T D R S W E	D O R B	MET Day 003	STS A T T I T U D E	CDR WETHERBEE	PLT LOCKHART	MS1 LOPEZ-ALEGRIA	MS2 HERRINGTON	Notes
				16:00	ILLUMINATOR OPS (OFF) (P/TV, CUE CARD) H/O ATT CNTL CMGTA TO ORB (JNT OPS, MATED OPS) MNVR (TRK) BIAS +ZLV +XVV TG=2 BV=5 P=300 Y=0 OM=0 Init TRK A12/AUTO/VERN When in attitude, DAP A11	P/TV25 ISS STRUCTURAL DYNAMICS (PHOTO/TV, SCENES) SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) A	EVA CREW: 1 ASPIRIN (325mg) EVA TOOL CONFIG (EVA, TOOLS/TIMELINES)	EVA CREW: 1 ASPIRIN (325mg) EVA TOOL CONFIG (EVA, TOOLS/TIMELINES)	
				17:00	AUTO REBOOST (ORB OPS, REBOOST/DAP) CONFIG 4		EMU LIQH REMOVAL (ISS EVA, EMU MAINT/RCHRG) BSA BATT RECHARGE (TERM) (ISS EVA, EMU MAINT/RCHRG) EMU WATER RECHARGE (ISS EVA, MAINT/RECHARGE)	EMU LIQH REMOVAL (ISS EVA, EMU MAINT/RCHRG) BSA BATT RECHARGE (TERM) (ISS EVA, EMU MAINT/RCHRG) EMU WATER RECHARGE (ISS EVA, MAINT/RECHARGE)	
				00:00		EXERCISE	E/L PREP (ISS EVA, EVA PREP)	E/L PREP (ISS EVA, EVA PREP)	
				18:00	MNVR (TRK) BIAS -XLV +ZVV TG=2 BV=5 P=156 Y=359 OM=356 Init TRK A12/AUTO/VERN	SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) Terminate CWC fill FILTER CLEANING (IFM, SCHEDULED MAINTENANCE) Inspect filters and clean as necessary	A Retrieve 3 pregathered CWC bags from ISS Temp stow on Shuttle middeck. Perform initial setup and purge. Perform CWC fill #1. Report barcode and S/N to MCC. Additives: Ag Biocide only. Sample: TBD		
				01:00	H/O ATT CNTL ORB TO CMGTA (JOINT OPS, MATED OPS)		TRANSFER OPS REF. XFER LIST		
				19:00	RCS REGULATOR RECONFIGURE (ORB OPS, RCS) HEATER RECONFIG-Config B (ORB OPS, EPS) PUBLIC AFFAIRS EVENT KU AVAIL TDRS 19:14 - 19:49 Ref MSG ###	P/TV02 IN-CABIN (SETUP) (PHOTO/TV, SCENES) PAO PUBLIC AFFAIRS EVENT	PUBLIC AFFAIRS EVENT	PUBLIC AFFAIRS EVENT	EXERCISE
				02:00	CABIN TEMP CONTROLLER RECONFIG - 2(1) (ORB OPS, ECLS) Configure to Controller 2	√ WCS hose block filter	TRANSFER OPS REF. XFER LIST	TRANSFER OPS REF. XFER LIST	
				20:00					

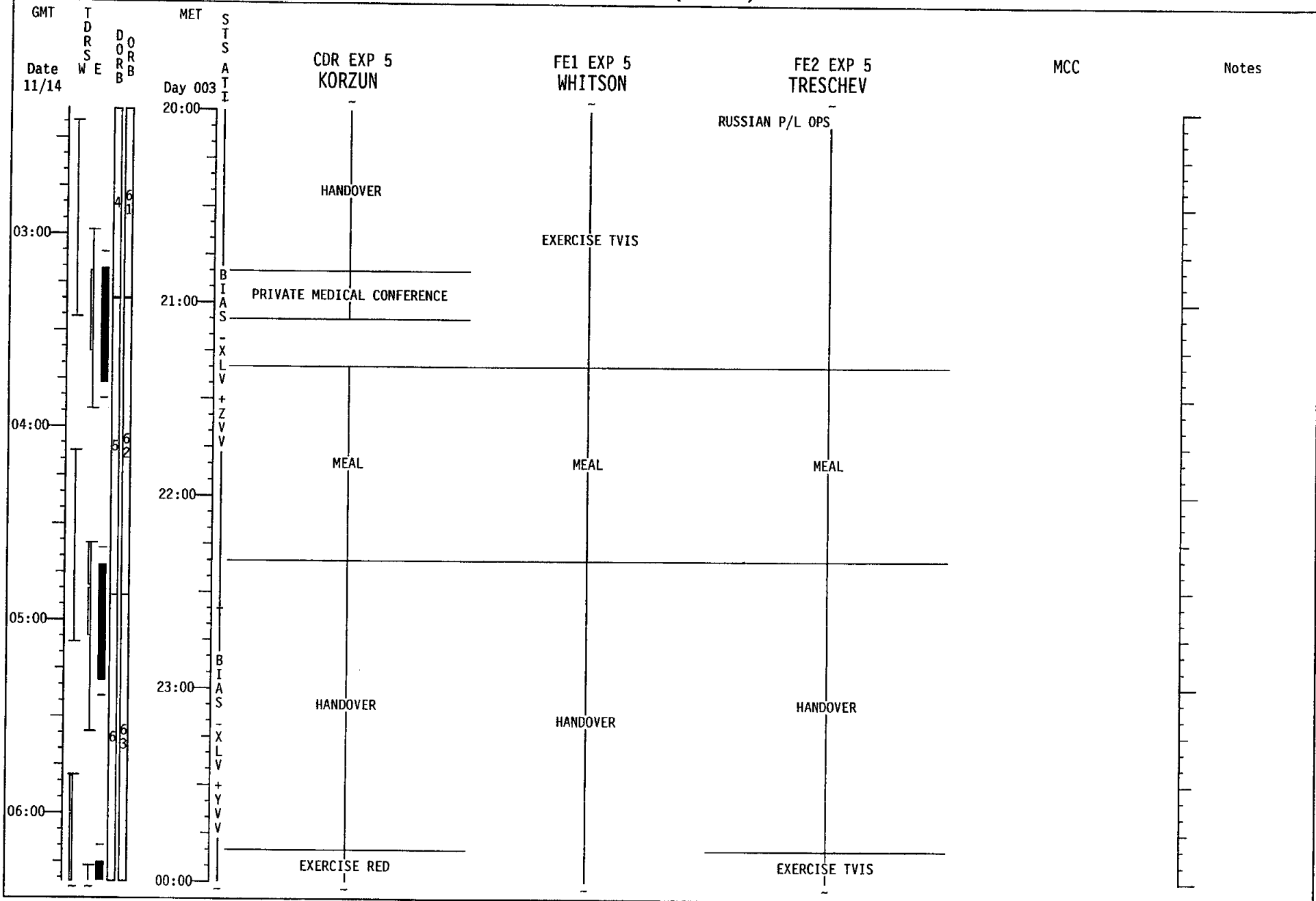
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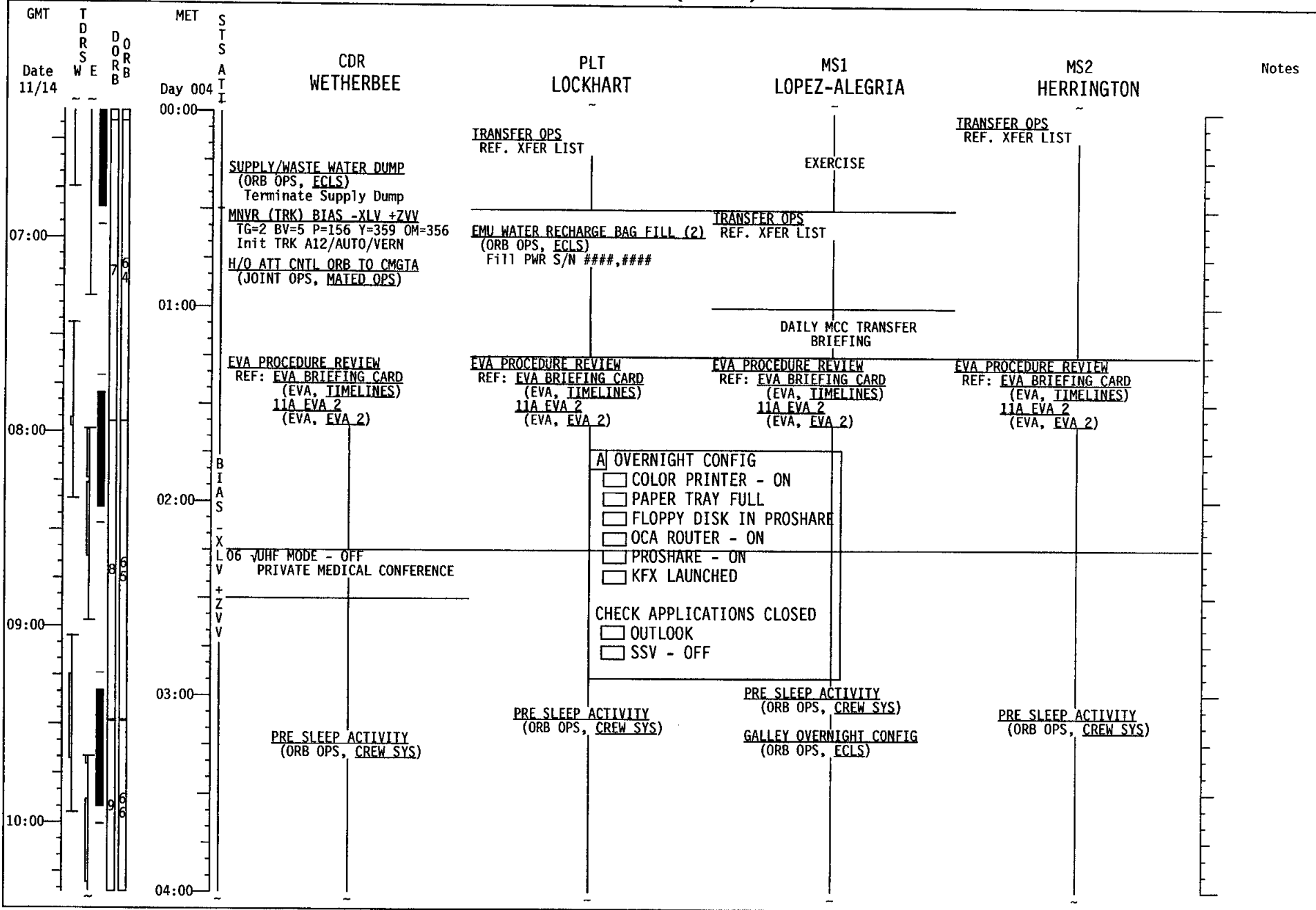
STS-113 (FD 05)

GMT Date 11/14	TDRS WE	DORRB	MET Day 003	STS ATT	CDR WETHERBEE	PLT LOCKHART	MS1 LOPEZ-ALEGRIA	MS2 HERRINGTON	Notes
			20:00		N2 TRANSFER INIT (JOINT OPS, MATED OPS)	N2 TRANSFER INIT (JOINT OPS, MATED OPS)	TRANSFER OPS REF. XFER LIST	TRANSFER OPS REF. XFER LIST	
			21:00	BIAS					
			22:00	-XLV +ZVV	MEAL	MEAL	MEAL	MEAL	
			23:00				EMU BATT RCHG FROM PSA (TERM) (ISS EVA, EMU MAINT/RECHARGE)	EVA CAMERA SETUP (CUE CARD, EVA F5)	
							EMU METOX/ BATT REPLACEMENT (ISS EVA, EMU MAINT/RECHG)	TRANSFER OPS REF. XFER LIST	
			00:00				TRANSFER OPS REF. XFER LIST		
				BIAS	H/O ATT CNTL CMGTA TO ORB (JNT OPS, MATED OPS) MNVR (TRK)BIAS -XLV +YVV TG=2 BV=5 P=156 Y=0 OM=270 Init TRK A12/AUTO/VERN SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Initiate Supply Dump PWR OVERBOARD DUMP (3 bags) (ORB OPS, ECLS) Dump PWR S/N ####,####,####				
			01:00	-XLV +YVV			EXERCISE		

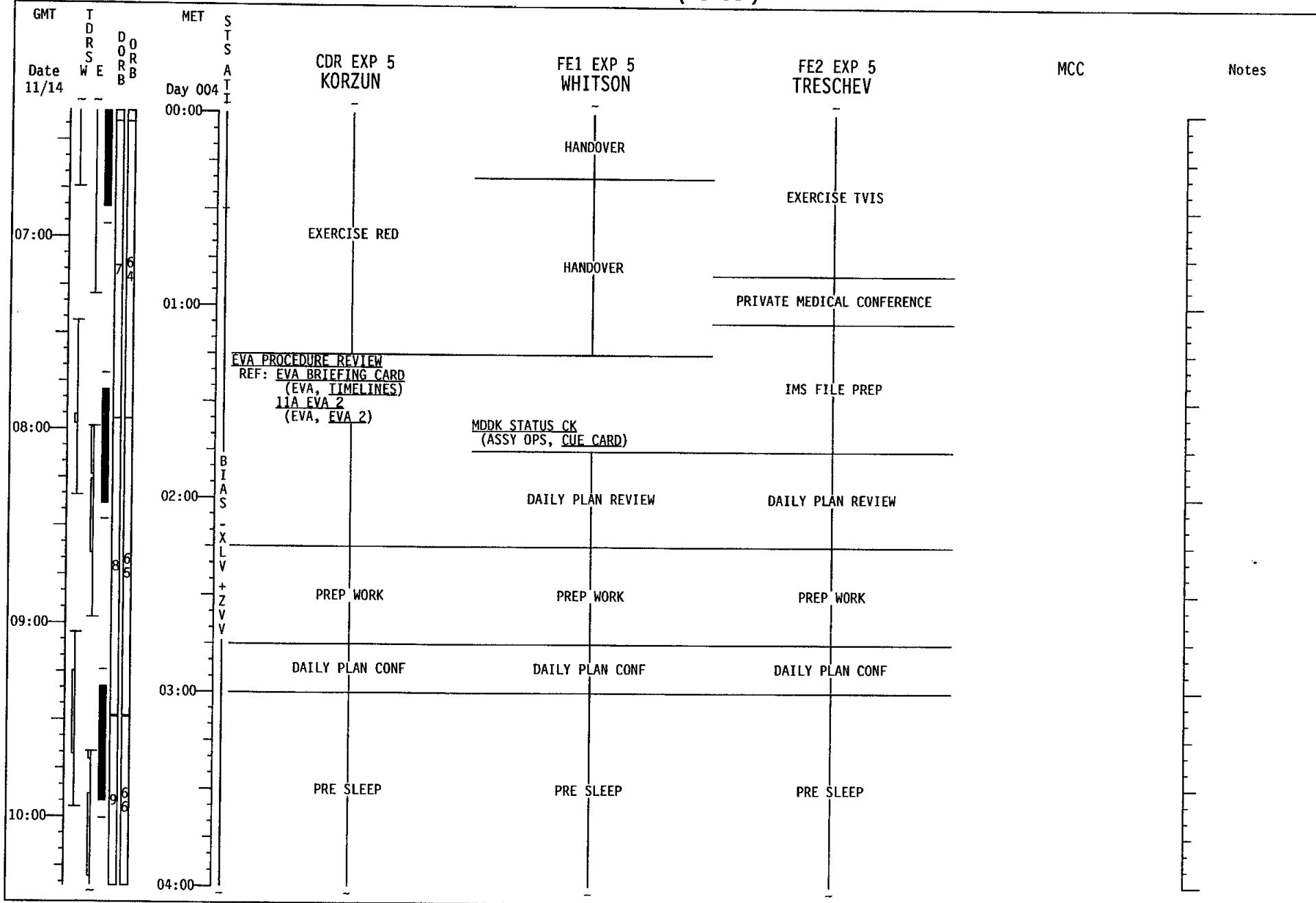
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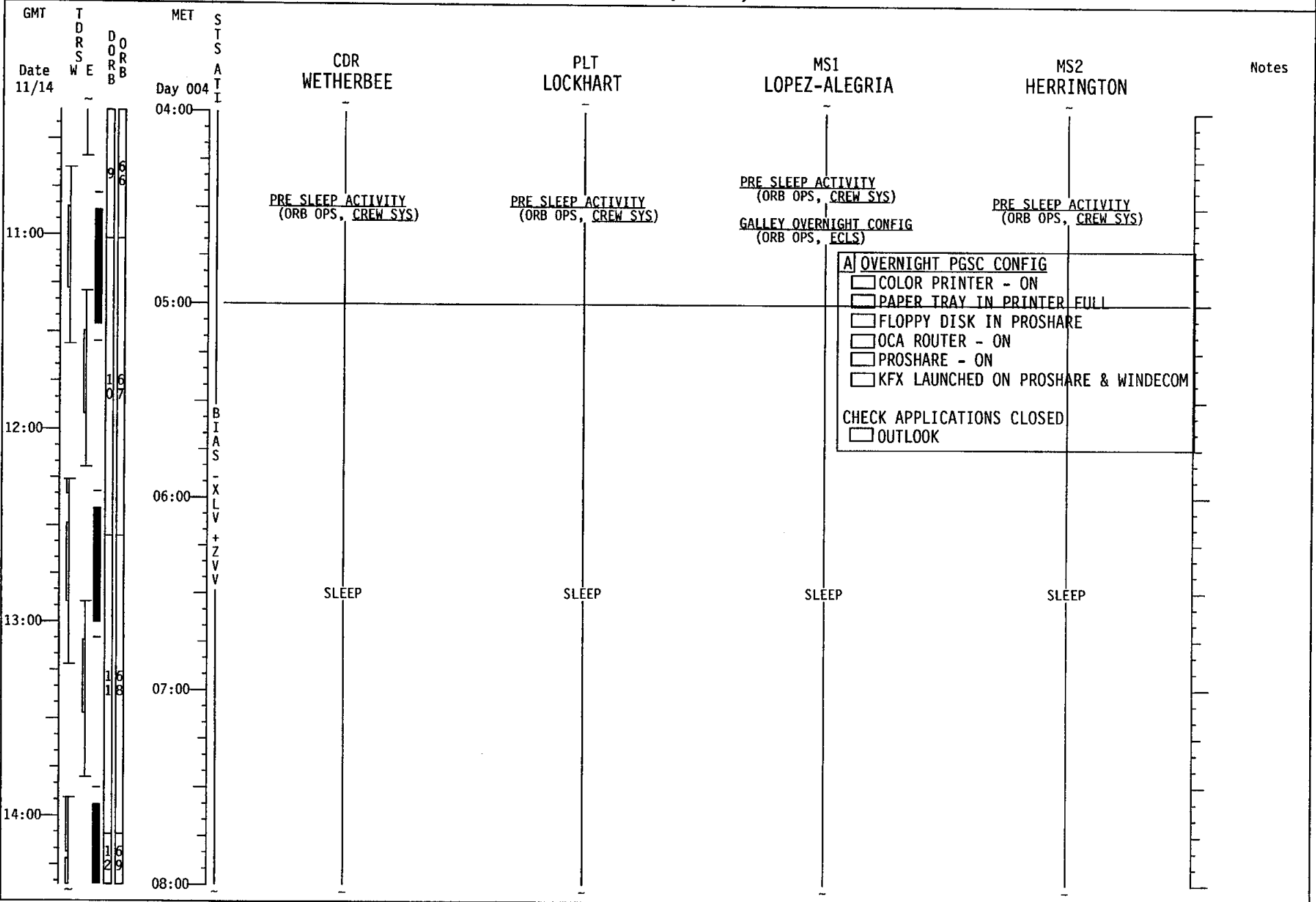
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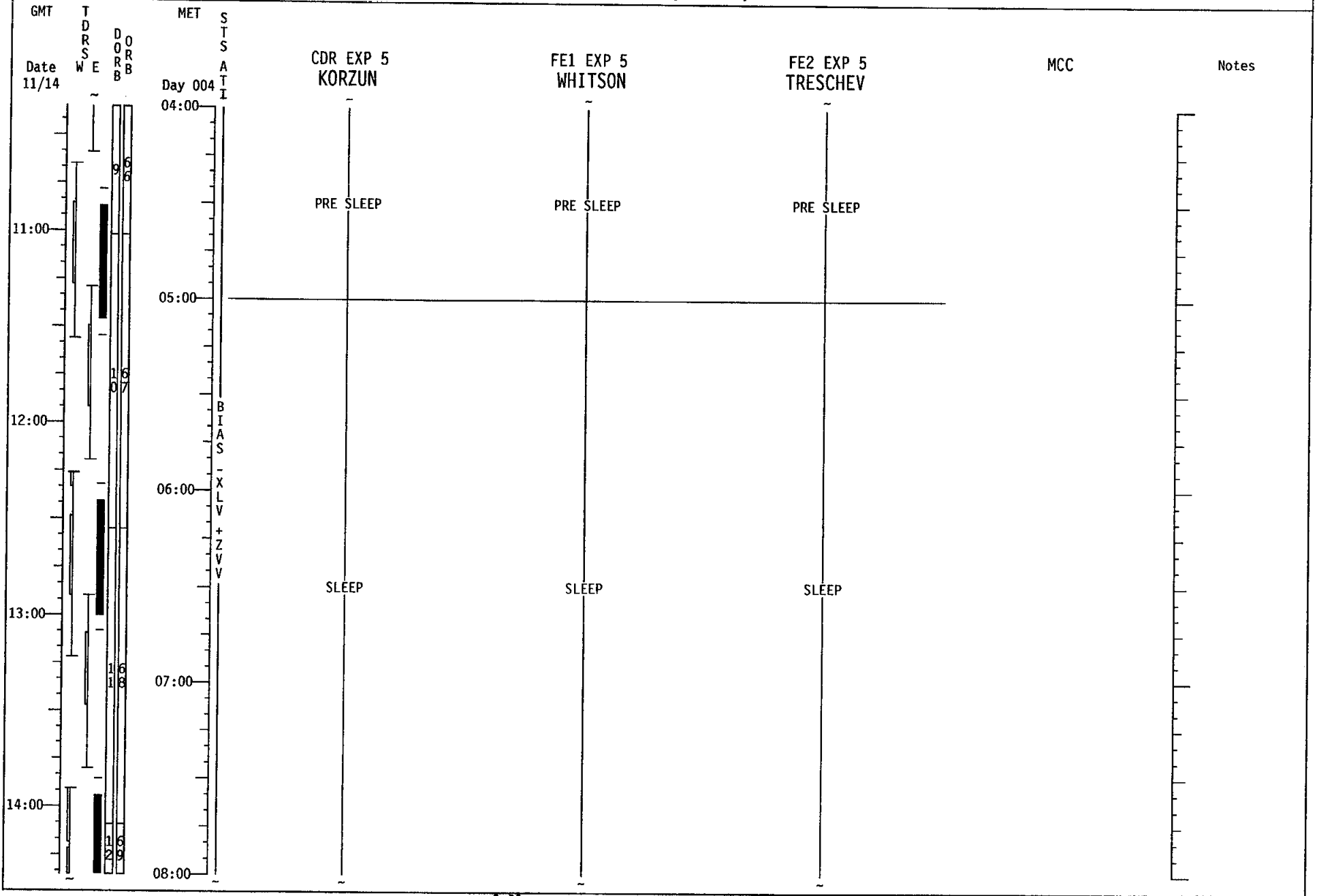
STS-113 (FD 05)



STS-113 (FD 05)



STS-113 (FD 05)



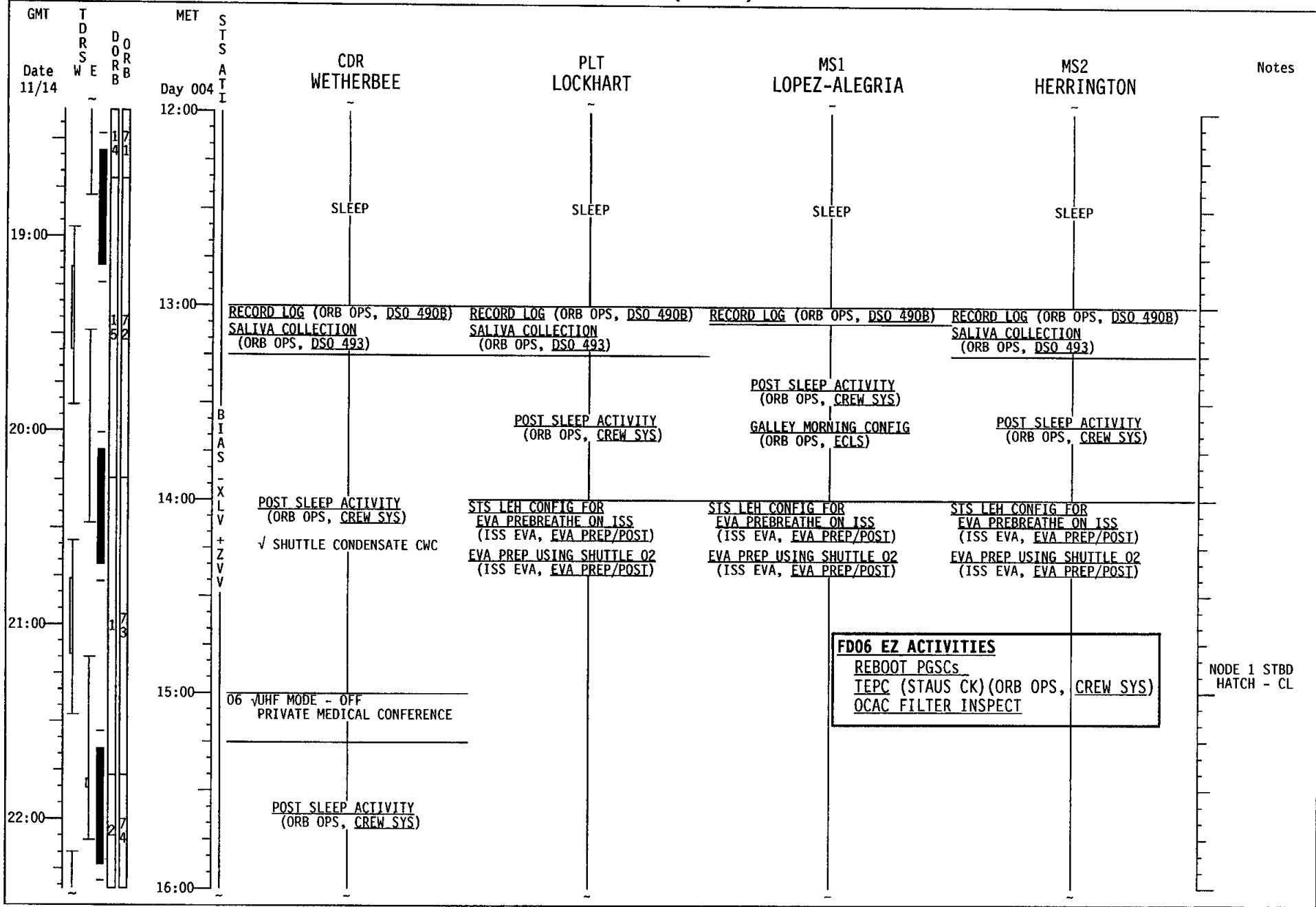
STS-113 (FD 05)

GMT Date 11/14	T D R S W E	D O R B	MET Day 004	S T S A T I	CDR WETHERBEE	PLT LOCKHART	MS1 LOPEZ-ALEGRIA	MS2 HERRINGTON	Notes
			08:00						
			09:00						
			10:00	B I A S - X L V + Z V V	SLEEP	SLEEP	SLEEP	SLEEP	
			11:00						
			12:00						

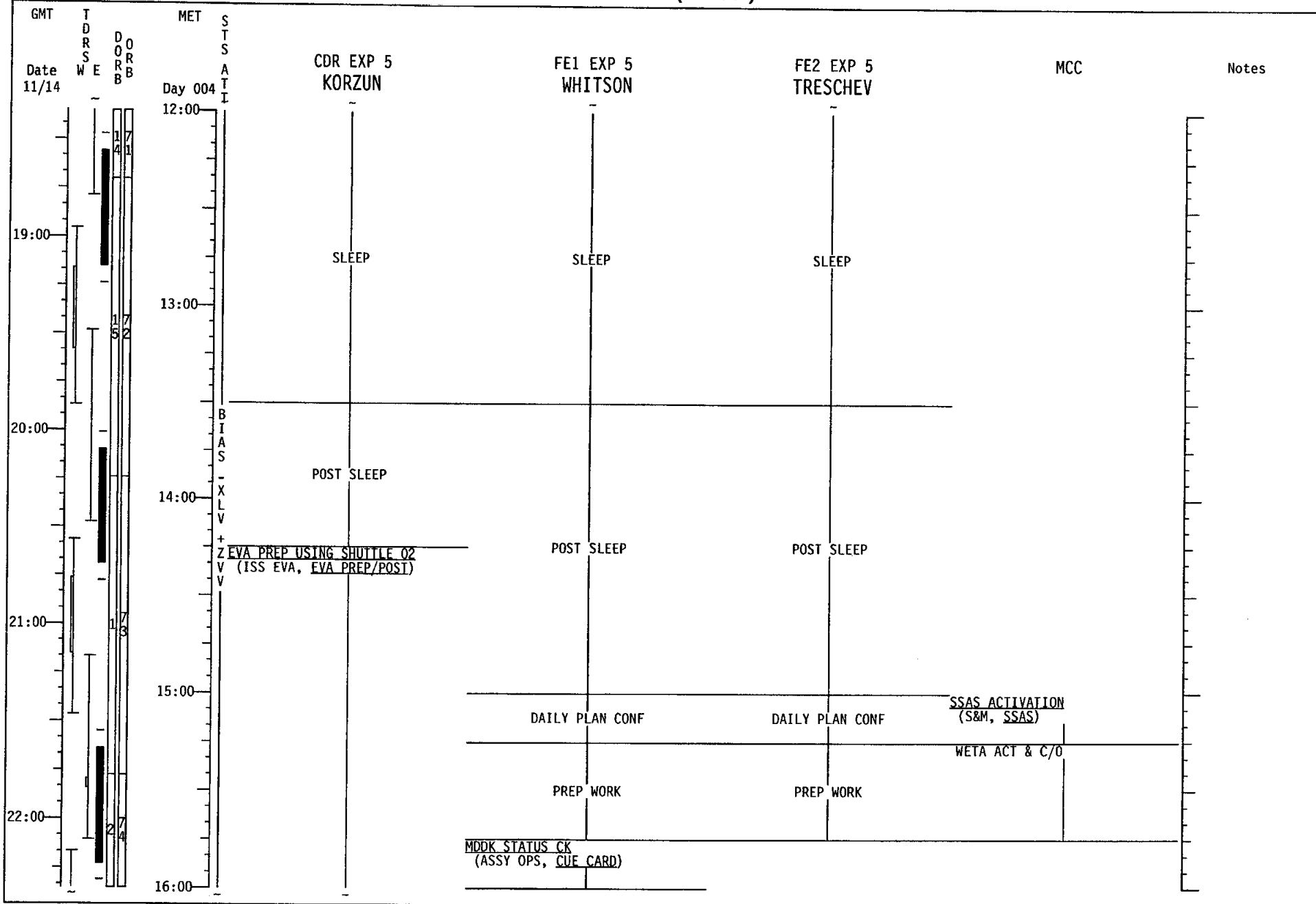
STS-113 (FD 05)

GMT	T D R S W E	D O R R B	MET	S T S	Notes
Date 11/14			Day 004	A T I	
08:00				B I A S	
15:00		16 29			
16:00				X L V	
17:00		17 30		+ Z V V	
18:00		17 41			
12:00					
			CDR EXP 5 KORZUN		SLEEP
			FE1 EXP 5 WHITSON		SLEEP
			FE2 EXP 5 TRESCHEV		SLEEP
			MCC		

STS-113 (FD 06)



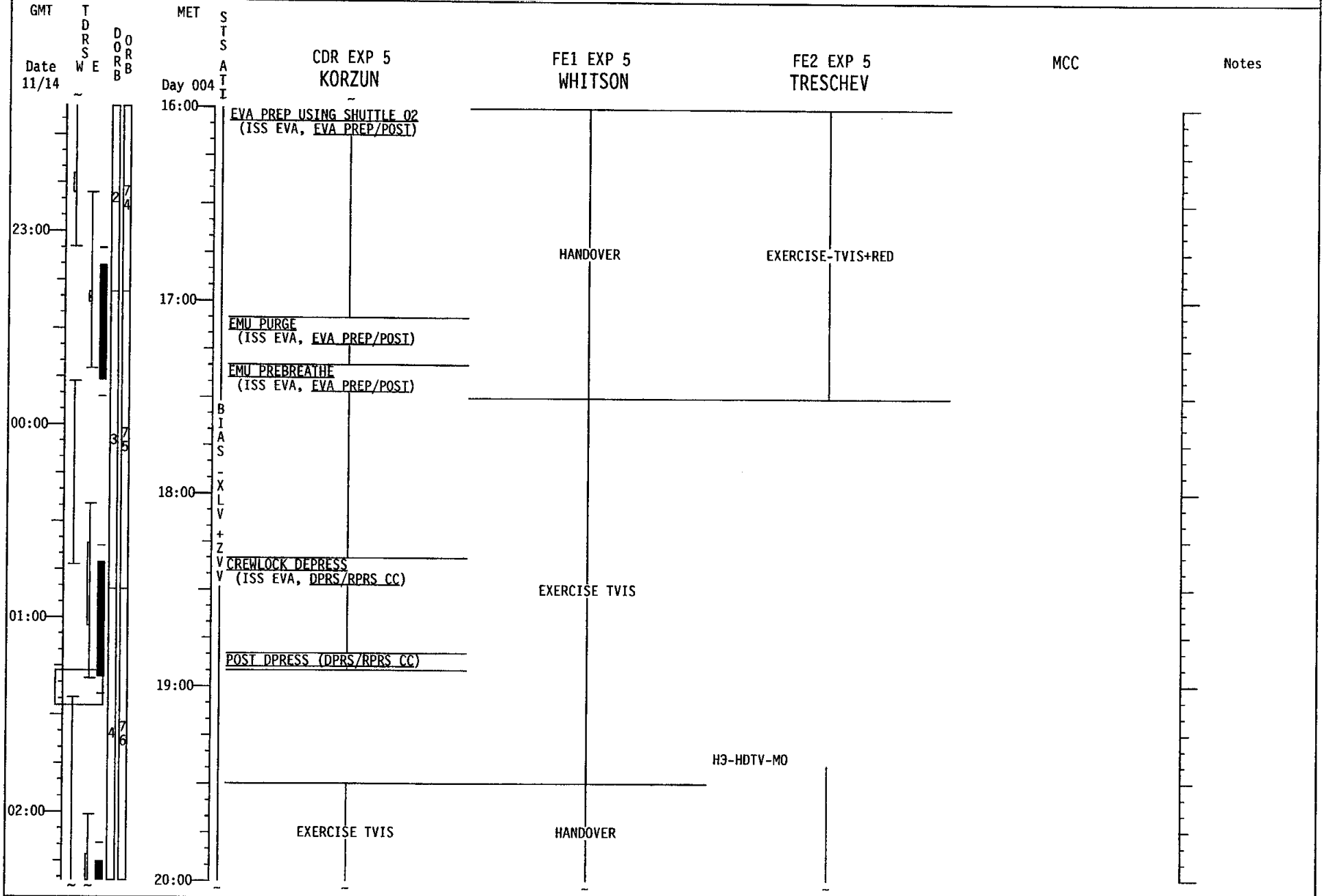
STS-113 (FD 06)



STS-113 (FD 06)

GMT Date 11/14	TDRS W E	DORRB 2 7 4 3 7 5 4 7 6	MET Day 004	S T A T I	CDR WETHERBEE	PLT LOCKHART	MS1 LOPEZ-ALEGRIA	MS2 HERRINGTON	Notes
			16:00		POST SLEEP ACTIVITY (ORB OPS, CREW SYS)	EVA PREP USING SHUTTLE 02 (ISS EVA, EVA PREP/POST)	EVA PREP USING SHUTTLE 02 (ISS EVA, EVA PREP/POST)	EVA PREP USING SHUTTLE 02 (ISS EVA, EVA PREP/POST)	
			23:00		EXERCISE				
			17:00			EMU PURGE (ISS EVA, EVA PREP) Steps 5-7 Equalize E/L to 14.7 PSI	EMU PURGE (ISS EVA, EVA PREP/POST)	EMU PURGE (ISS EVA, EVA PREP/POST)	NODE 1 STBD HATCH - OP
					EVA 2 INHIBIT PAD (EVA, EVA 2)	EMU PREBREATHE (ISS EVA, EVA PREP/POST)	EMU PREBREATHE (ISS EVA, EVA PREP/POST)	EMU PREBREATHE (ISS EVA, EVA PREP/POST)	
			00:00	B I A S					
			18:00		X L17 Check MCIU filter screen L SUPPLY WATER DUMP USING FES V (ORB OPS, ECLS) Perform step 1 + P/TV23 EVA (SETUP) Z (PHOTO/TV, SCENES) V V	CREWLOCK DEPRESS (ISS EVA, DPRS/RPRS CC)	CREWLOCK DEPRESS (ISS EVA, DPRS/RPRS CC)	CREWLOCK DEPRESS (ISS EVA, DPRS/RPRS CC)	
			01:00						
			19:00			POST DPRESS (DPRS/RPRS CC) IVA SUPPORT EVA 2	POST DPRESS (DPRS/RPRS CC) C/L EGRESS (ISS EVA, CUFF C/L)	POST DPRESS (DPRS/RPRS CC) C/L EGRESS (ISS EVA, CUFF C/L)	
					P/TV23 EVA OPS (PHOTO/TV, SCENES) Perform during EVA as time permits		EVA 2 SETUP (EVA, EVA 2)	EVA 2 SETUP (EVA, EVA 2)	
			02:00						
			20:00				PI/SO FLUID JUMPER MATE (EVA, EVA 2)	PI/SO FLUID JUMPER MATE (EVA, EVA 2)	

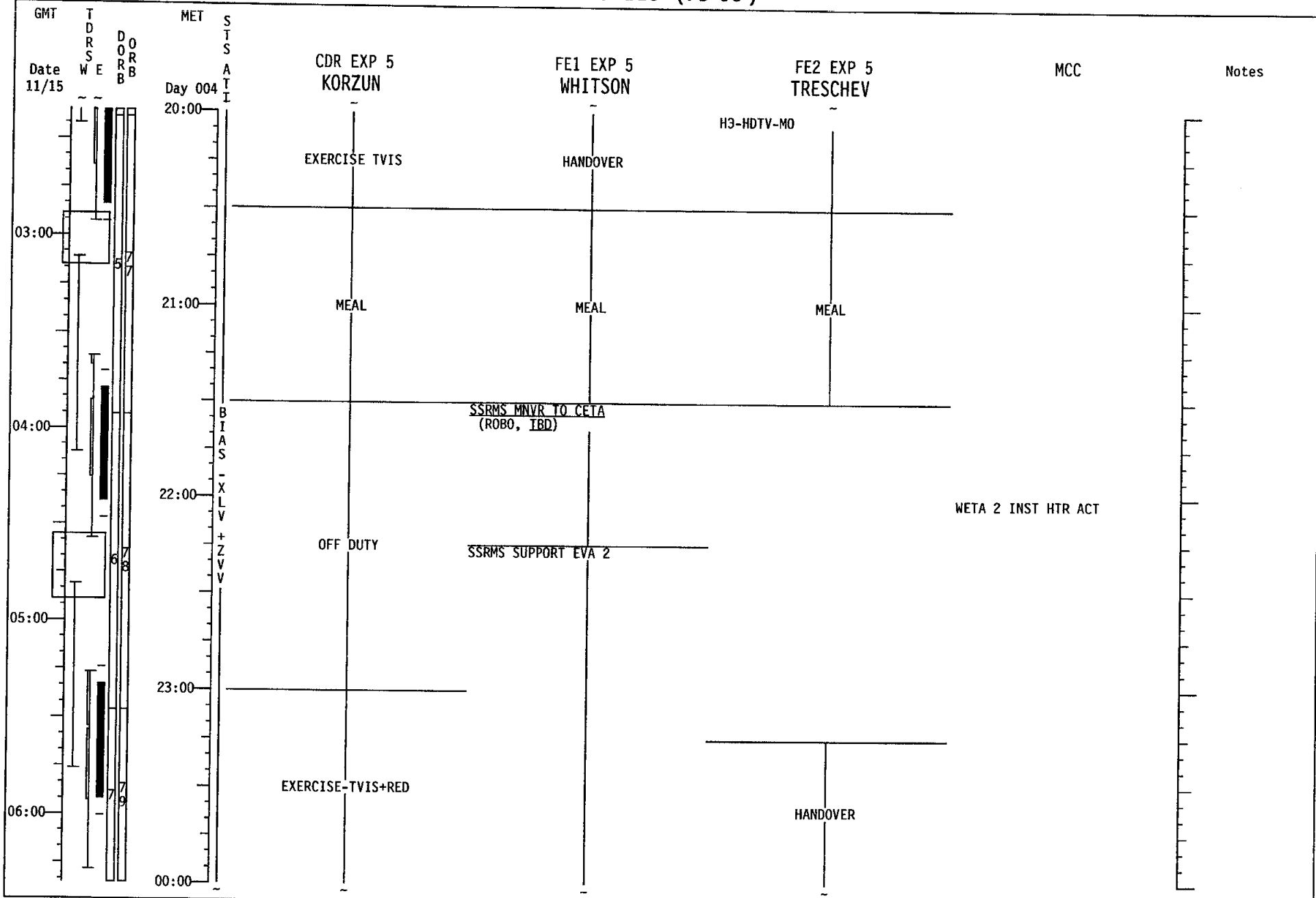
STS-113 (FD 06)



STS-113 (FD 06)

GMT	TDRS W E	DORR B	MET Day 004	S T S A T I	CDR WETHERBEE	PLT LOCKHART	MS1 LOPEZ-ALEGRIA	MS2 HERRINGTON	Notes
11/15			20:00		P/TV23 EVA OPS (PHOTO/TV, SCENES) Perform during EVA as time permits	IVA SUPPORT EVA 2	P1/SO FLUID JUMPER MATE (EVA, EVA 2)	P1/SO FLUID JUMPER MATE (EVA, EVA 2)	
03:00									
04:00				B I A S			STBD AND PORT KEEL PIN/DRAG LINK (EVA, EVA 2)	STBD AND PORT KEEL PIN/DRAG LINK (EVA, EVA 2)	C1: -10<AZ<52 -60<EL<75
				X L V			PI WETA INSTALL (EVA, EVA 2)	PI WETA INSTALL (EVA, EVA 2)	C2: -35<AZ<-8 -20<EL<45
05:00				Z V V			After Thermal Cover removed, Give MCC go for HTR ACT.	P1/P3 CLAMPS (EVA, EVA 2)	C3: -70<AZ<-33 -8<EL<33
							PORT KEEL PIN/DRAG LINK (EVA 2, EVA)	PORT KEEL PIN/DRAG LINK (EVA 2, EVA)	D3: -65<AZ<-8 -55<EL<-5
06:00							CETA RELOCATE (EVA, EVA 2)	CETA RELOCATE (EVA, EVA 2)	
			00:00						

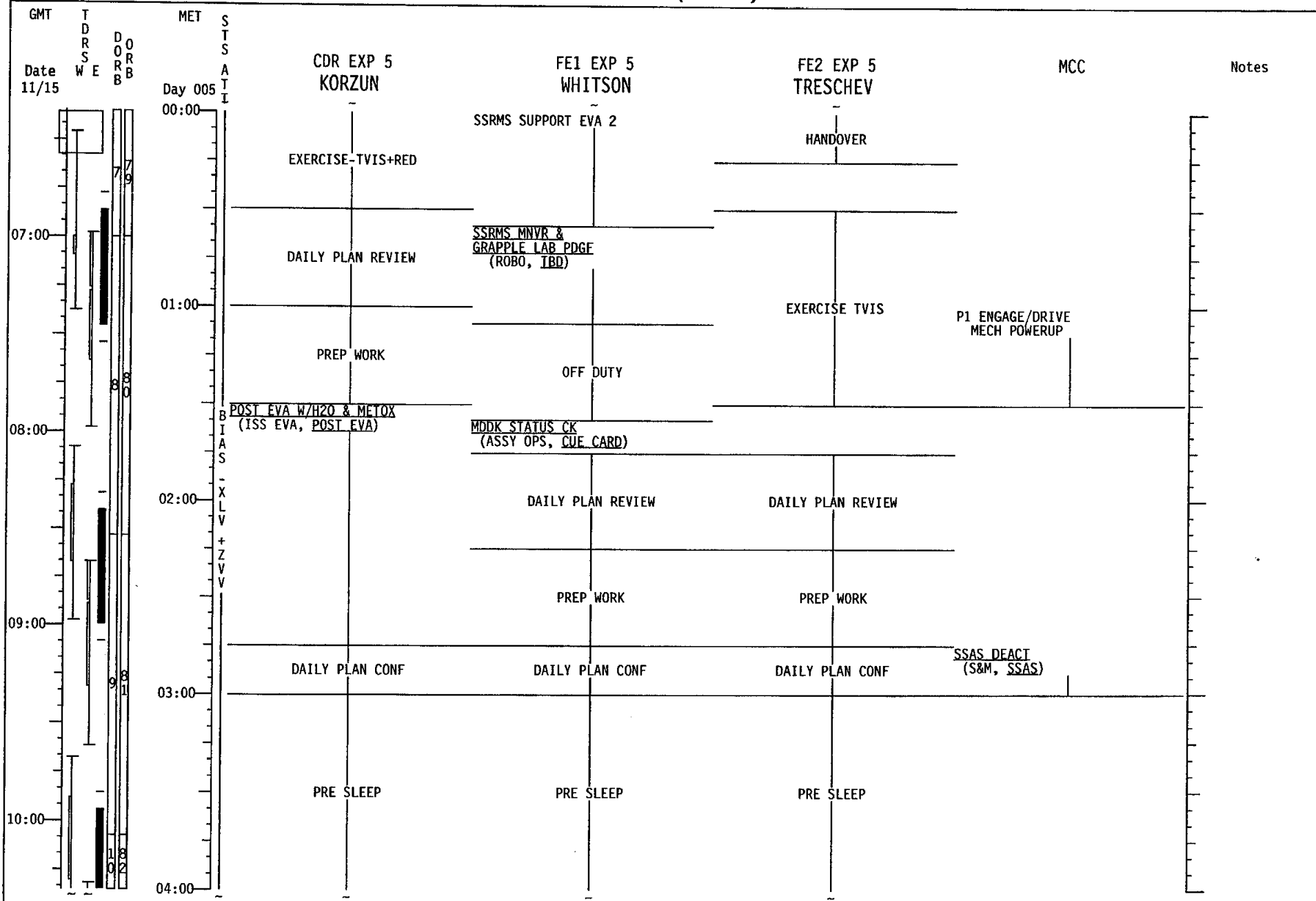
STS-113 (FD 06)



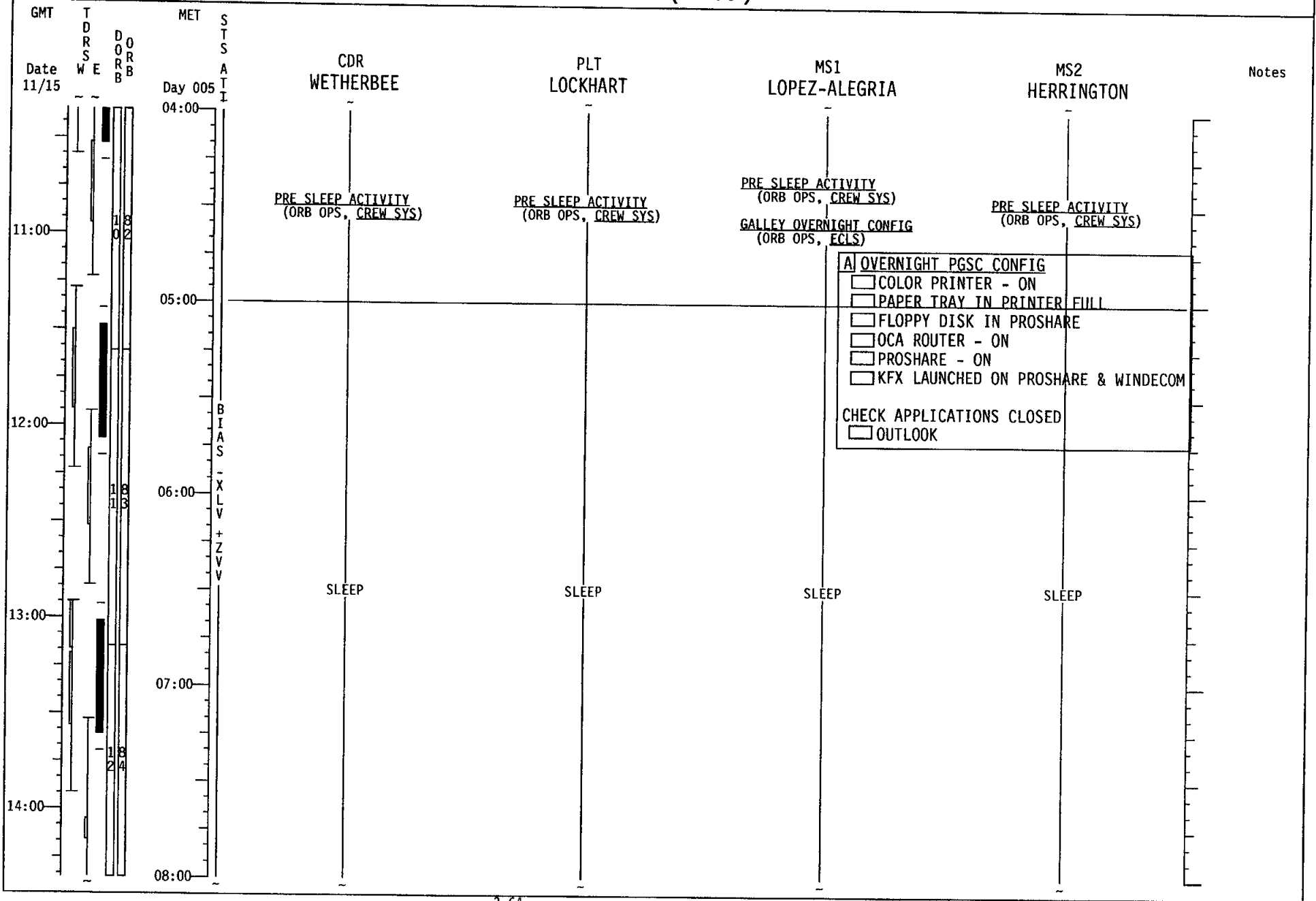
STS-113 (FD 06)

GMT Date 11/15	TDRS W E	DORB B	MET Day 005	STS A T I	CDR WETHERBEE	PLT LOCKHART	MS1 LOPEZ-ALEGRIA	MS2 HERRINGTON	Notes
			00:00		P/TV23 EVA OPS (PHOTO/TV, SCENES) Perform during EVA as time permits	IVA SUPPORT EVA 2	CETA RELOCATE (EVA, EVA 2)	CETA RELOCATE (EVA, EVA 2)	
			07:00		SHUTTLE CONDENSATE COLLECTION CHANGEOUT (ORB OPS, ECLS) Use CWC s/n ###		EVA 2 CLEANUP (EVA, EVA 2)	EVA 2 CLEANUP (EVA, EVA 2)	
			01:00				C/L INGRESS (ISS EVA, CUFF C/L)	C/L INGRESS (ISS EVA, CUFF C/L)	
						PRE REPRESS (C/L DPRS/RPRS CC) CREWLOCK REPRESS (ISS EVA, DPRS/RPRS CC)	PRE REPRESS (C/L DPRS/RPRS CC) CREWLOCK REPRESS (ISS EVA, DPRS/RPRS CC)	PRE REPRESS (C/L DPRS/RPRS CC) CREWLOCK REPRESS (ISS EVA, DPRS/RPRS CC)	
			08:00		EVA COMM DECONFIG (EVA, EVA PREP)	POST EVA W/METOX (ISS EVA, POST EVA)	POST EVA W/METOX (ISS EVA, POST EVA)	POST EVA W/METOX (ISS EVA, POST EVA)	UPLINK KU B 21° only + Boxes
			02:00		PRE SLEEP ACTIVITY (ORB OPS, CREW SYS)				C1: -10<AZ<52 -60<EL<75
					SUPPLY WATER DUMP USING FES (ORB OPS, ECLS) Perform Step 2 w/FES reqd PRE SLEEP ACTIVITY (ORB OPS, CREW SYS)				C2: -35<AZ<-8 -20<EL<45
			09:00		06 UHF MODE - OFF PRIVATE MEDICAL CONFERENCE	EMU BATT RCHG FROM PSA (INIT) (ISS EVA, EMU MAINT/RECHARGE)	BSA BATT RECHARGE INIT (ISS EVA, EMU MAINT/RCHG)	BSA BATT RECHARGE INIT (ISS EVA, EMU MAINT/RCHG)	C3: -70<AZ<-33 -8<EL<33
			03:00						
					PRE SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE SLEEP ACTIVITY (ORB OPS, CREW SYS) GALLEY OVERNIGHT CONFIG (ORB OPS, ECLS)	PRE SLEEP ACTIVITY (ORB OPS, CREW SYS)	
			10:00						
			04:00						

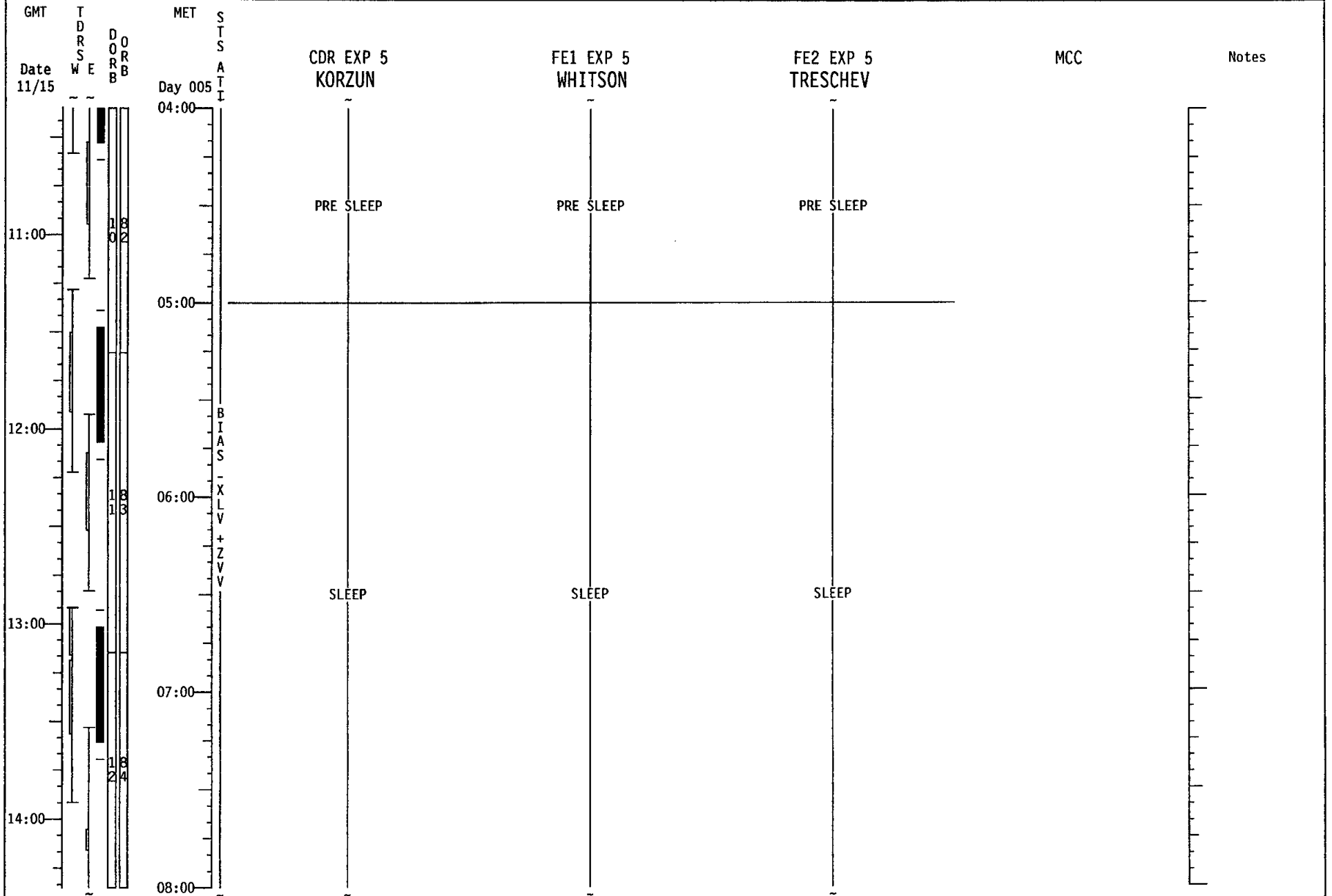
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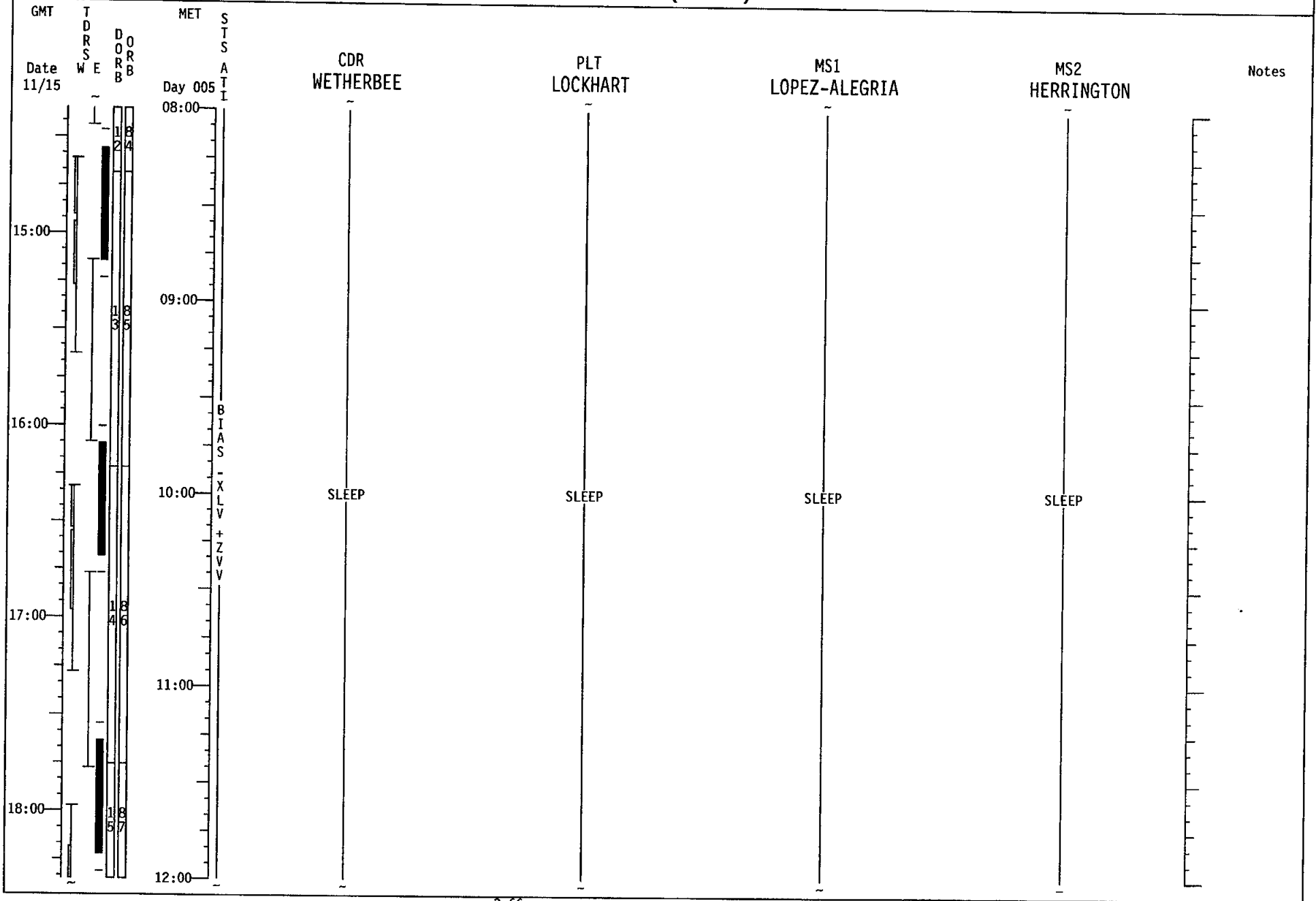
STS-113 (FD 06)



STS-113 (FD 06)



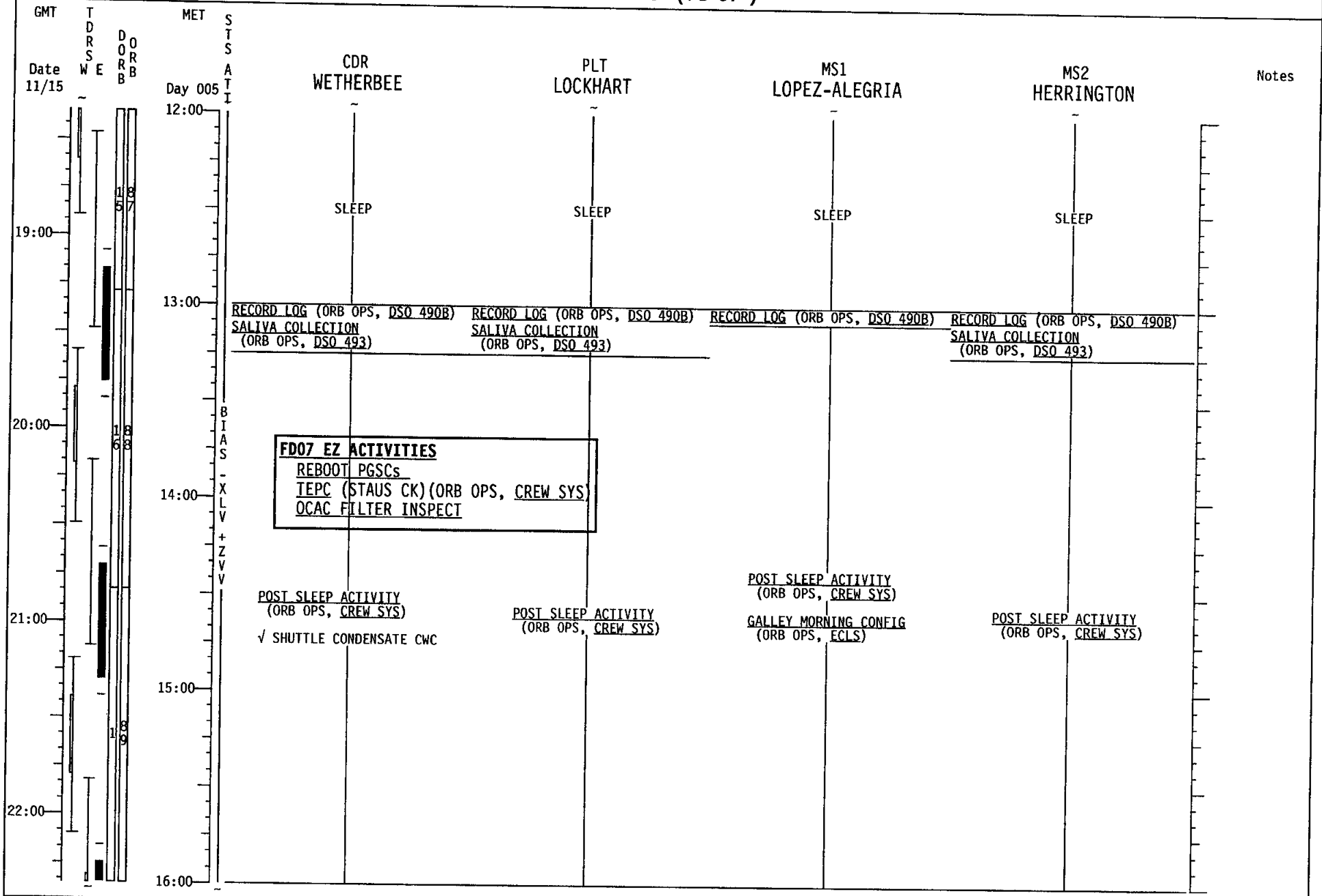
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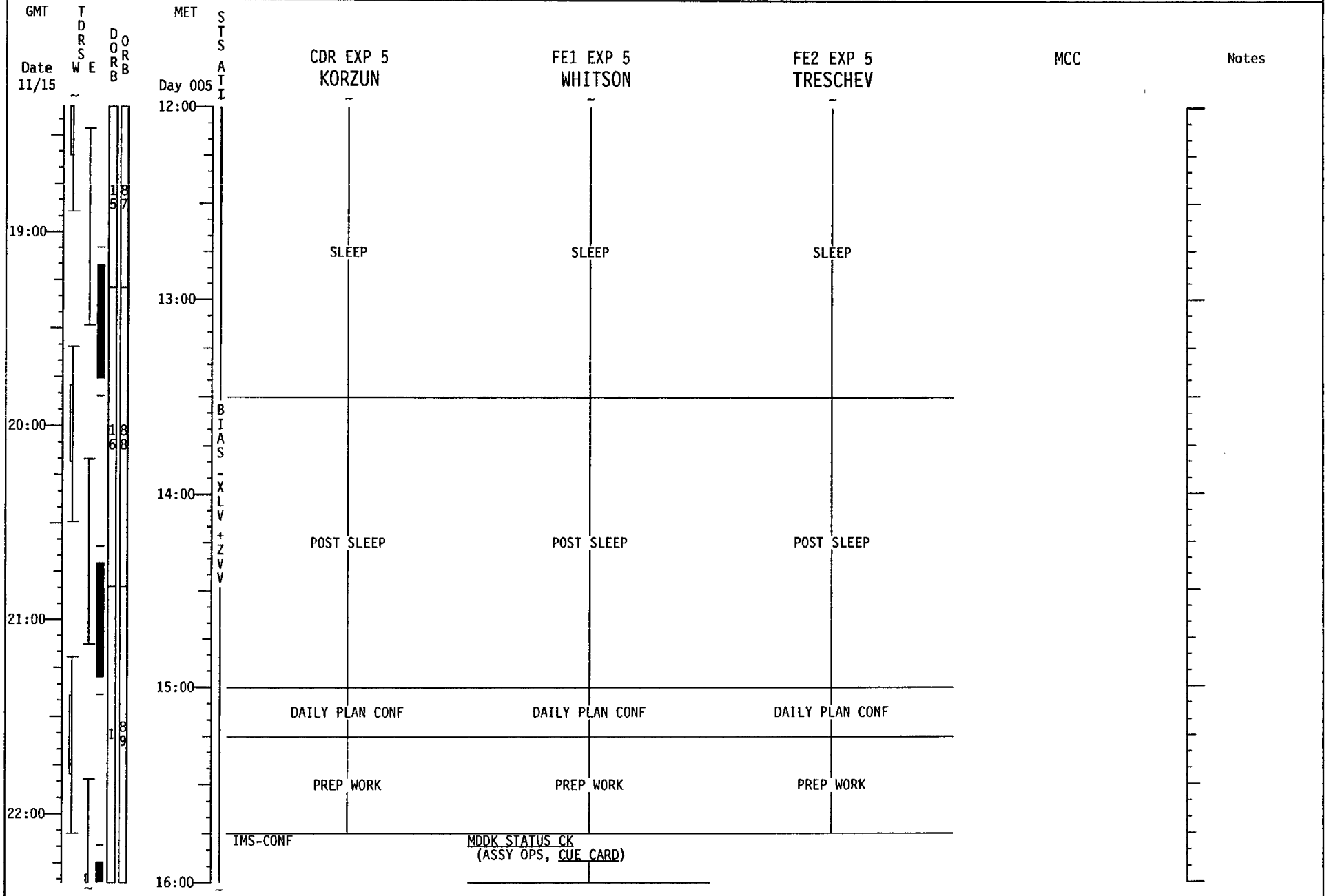
STS-113 (FD 06)

GMT	T D R S W E	D O R B	MET	S T S A T I	CDR EXP 5 KORZUN	FE1 EXP 5 WHITSON	FE2 EXP 5 TRESCHEV	MCC	Notes
Date 11/15			Day 005						
08:00		1824							
15:00		1835							
16:00				B I A S					
17:00		1846		X L V	SLEEP	SLEEP	SLEEP		
18:00		1857		+ Z V V					
12:00									

STS-113 (FD 07)



STS-113 (FD 07)

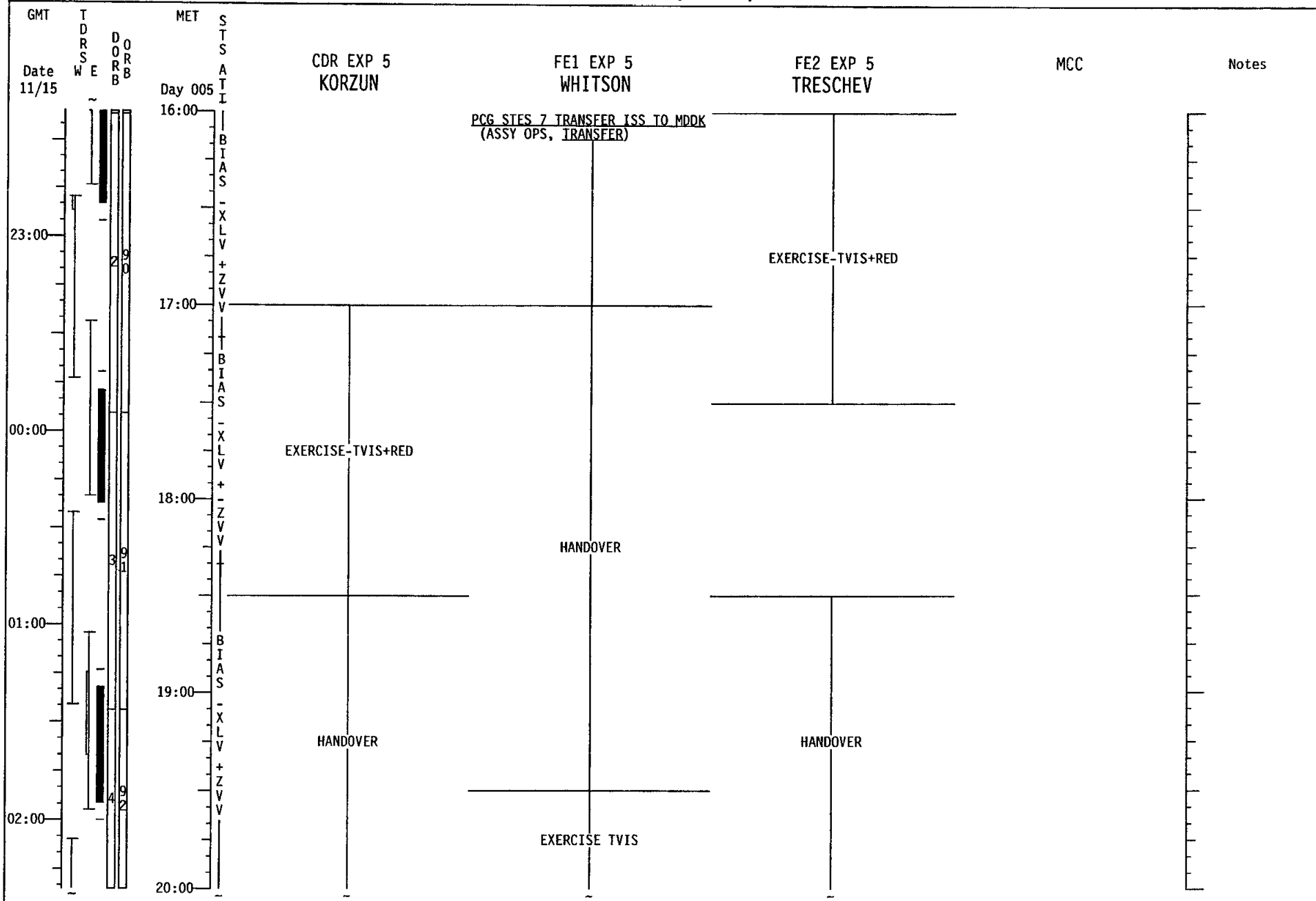


STS-113 (FD 07)

GMT Date 11/15	TDRS W E	DORR B	MET Day 005	CDR WETHERBEE	PLT LOCKHART	MS1 LOPEZ-ALEGRIA	MS2 HERRINGTON	Notes
			16:00		WCS COMPACTOR OPS (DUAL-VANE) (CUE CARD)	PCG STES 7 TRANSFER ISS TO MDDK (ASSY OPS, TRANSFER)	TRANSFER OPS REF. XFER LIST	
					P/TV24 ISS EXTERNAL SURVEY (PHOTO/TV, SCENES)			
			23:00	X L17 Check MCIU filter screen				
			17:00	H/O ATT CNTL CMGTA TO ORB (JNT OPS, MATED OPS)		EVA CREW: 1 ASPIRIN (325mg) EVA TOOL CONFIG (EVA, TOOLS/TIMELINES)	EVA CREW: 1 ASPIRIN (325mg) EVA TOOL CONFIG (EVA, TOOLS/TIMELINES)	
				B MNVR (TRK) BIAS -XLV -ZVV I TG=2 BV=5 P=176 Y=0 OM=180 A Init TRK A12/AUTO/VERN S When in attitude, DAP A11				
			00:00	X AUTO REBOOST L (ORB OPS, REBOOST/DAP) V CONFIG 3	EXERCISE			
			18:00			E/L PREP (ISS EVA, EVA PREP)	E/L PREP (ISS EVA, EVA PREP)	
			01:00	MNVR (TRK) BIAS -XLV +ZVV TG=2 BV=5 P=156 Y=359 OM=356 Init TRK A12/AUTO/VERN	SHUTTLE/ISS H2O CNTR FILL (#2 INIT) (ORB OPS, ECLS) Report Barcode & S/N To MCC. Additives: Ag Biocide only, Sample TBD			
				A H/O ATT CNTL ORB TO CMGTA S (JOINT OPS, MATED OPS)	TRANSFER OPS REF. XFER LIST	EMU WATER RECHARGE (ISS EVA, MAINT/RECHARGE)	EMU WATER RECHARGE (ISS EVA, MAINT/RECHARGE)	
			19:00					
				EXERCISE		METOX REGERATION TERM (ISS EVA, EMU MAINT/RCHRG)	METOX REGERATION TERM (ISS EVA, EMU MAINT/RCHRG)	
						BSA BATT RECHARGE (TERM) (ISS EVA, EMU MAINT/RCHRG)	BSA BATT RECHARGE (TERM) (ISS EVA, EMU MAINT/RCHRG)	
			02:00		SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) Terminate CWC fill	CGBA TRANSFER MDDK TO ISS (ASSY OPS, TRANSFER)	EVA CAMERA SETUP (CUE CARD, EVA F5)	
			20:00	EMU WATER RECHARGE BAG FILL (2) (ORB OPS, ECLS)	TRANSFER OPS REF. XFER LIST			

F111 PWR S/N ####,###

STS-113 (FD 07)



STS-113 (FD 07)

GMT Date 11/16	T D R S E W E	D O O R B B	MET Day 005	S T S A T T I	CDR WETHERBEE	PLT LOCKHART	MS1 LOPEZ-ALEGRIA	MS2 HERRINGTON	Notes
			20:00		EMU WATER RECHARGE BAG FILL (2) (ORB OPS, ECLS) Fill PWR S/N ####,####	TRANSFER OPS REF. XFER LIST	CGBA TRANSFER MDDK TO ISS (ASSY OPS, TRANSFER)	P/TV21 ISS INTRNL (S/U) (PHOTO/TV, SCENES)	
			21:00		MEAL	MEAL	MEAL	MEAL	
			22:00		CREW PHOTO	CREW PHOTO	CREW PHOTO	CREW PHOTO	
			23:00		CREW CONF	CREW CONF	CREW CONF	CREW CONF	
			00:00		N2 TRANSFER TERM (JOINT OPS, MATED OPS)	N2 TRANSFER TERM (JOINT OPS, MATED OPS)		EMU BATT RCHG FROM PSA (TERM) (ISS EVA, EMU MAINT/RECHARGE)	
			01:00					EMU METOX/ BATT REPLACEMENT (ISS EVA, EMU MAINT/RECHG)	
			02:00				EXERCISE	TRANSFER OPS REF. XFER LIST	
			03:00		H/O ATT CNTL CMGTA TO ORB (JNT OPS, MATED OPS)				
			04:00		MNVR (TRK)BIAS -XLV +YV TG=2 BV=5 P=156 Y=0 OM=270 Init TRK A/AUTO/VERN	SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) Terminate CWC fill		EXERCISE	
			05:00		SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Initiate Simo Supply/Waste Dump				

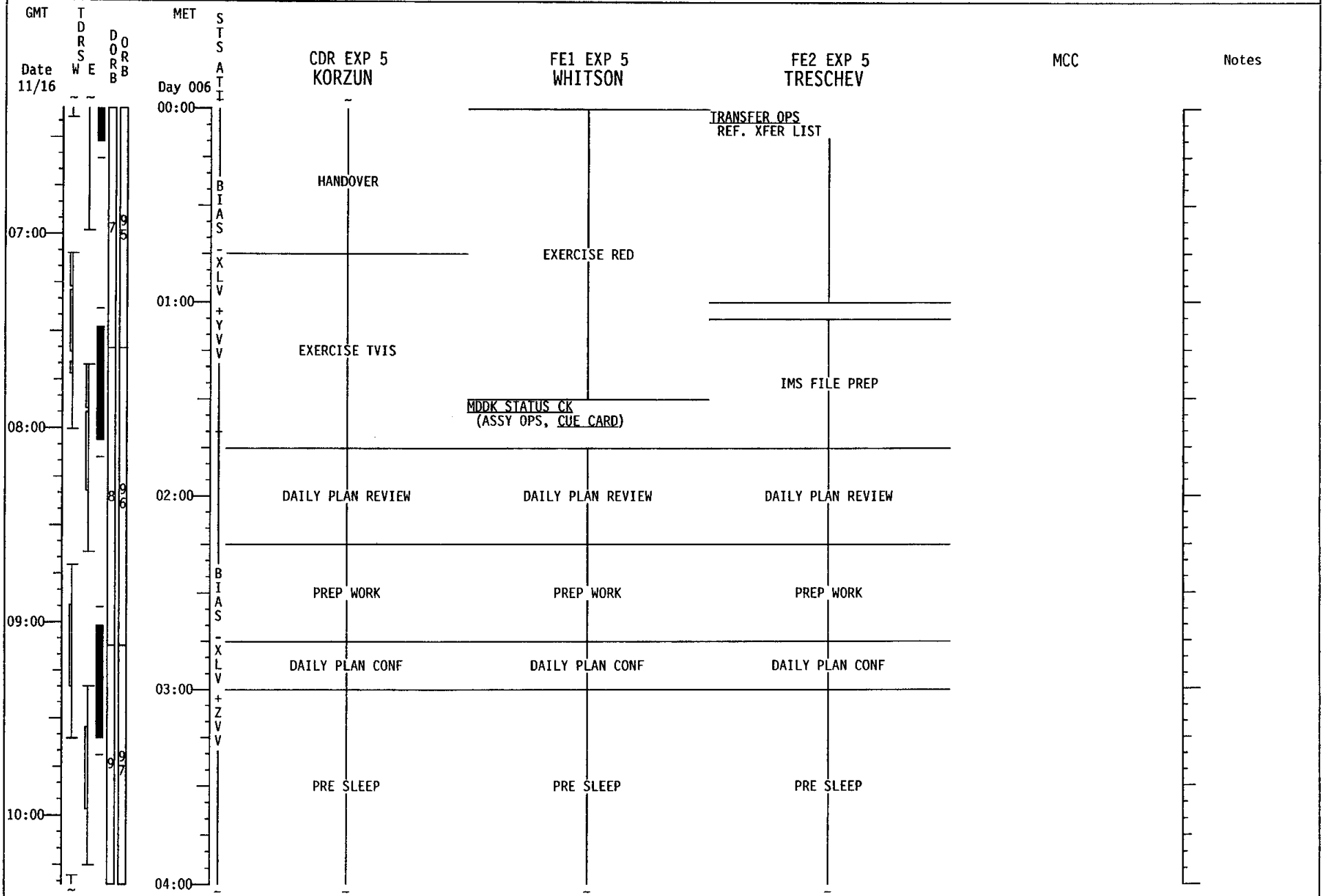
STS-113 (FD 07)

GMT Date 11/16	TDRS W E	DORRB	MET Day 005	STS A T I	CDR EXP 5 KORZUN	FE1 EXP 5 WHITSON	FE2 EXP 5 TRESCHEV	MCC	Notes
			20:00		HANDOVER	EXERCISE TVIS	HANDOVER		
			21:00		MEAL	MEAL	MEAL		
			22:00	B I A S - X L V + Z V V	CREW PHOTO	CREW PHOTO	CREW PHOTO		
			23:00		CREW CONF	CREW CONF	CREW CONF		
			00:00		<u>PUBLIC AFFAIRS EVENT</u> KU AVAIL TDRS 22:12 - 22:34 Ref MSG ###	<u>PUBLIC AFFAIRS EVENT</u>	<u>PUBLIC AFFAIRS EVENT</u>		
					HANDOVER		EXERCISE TVIS		

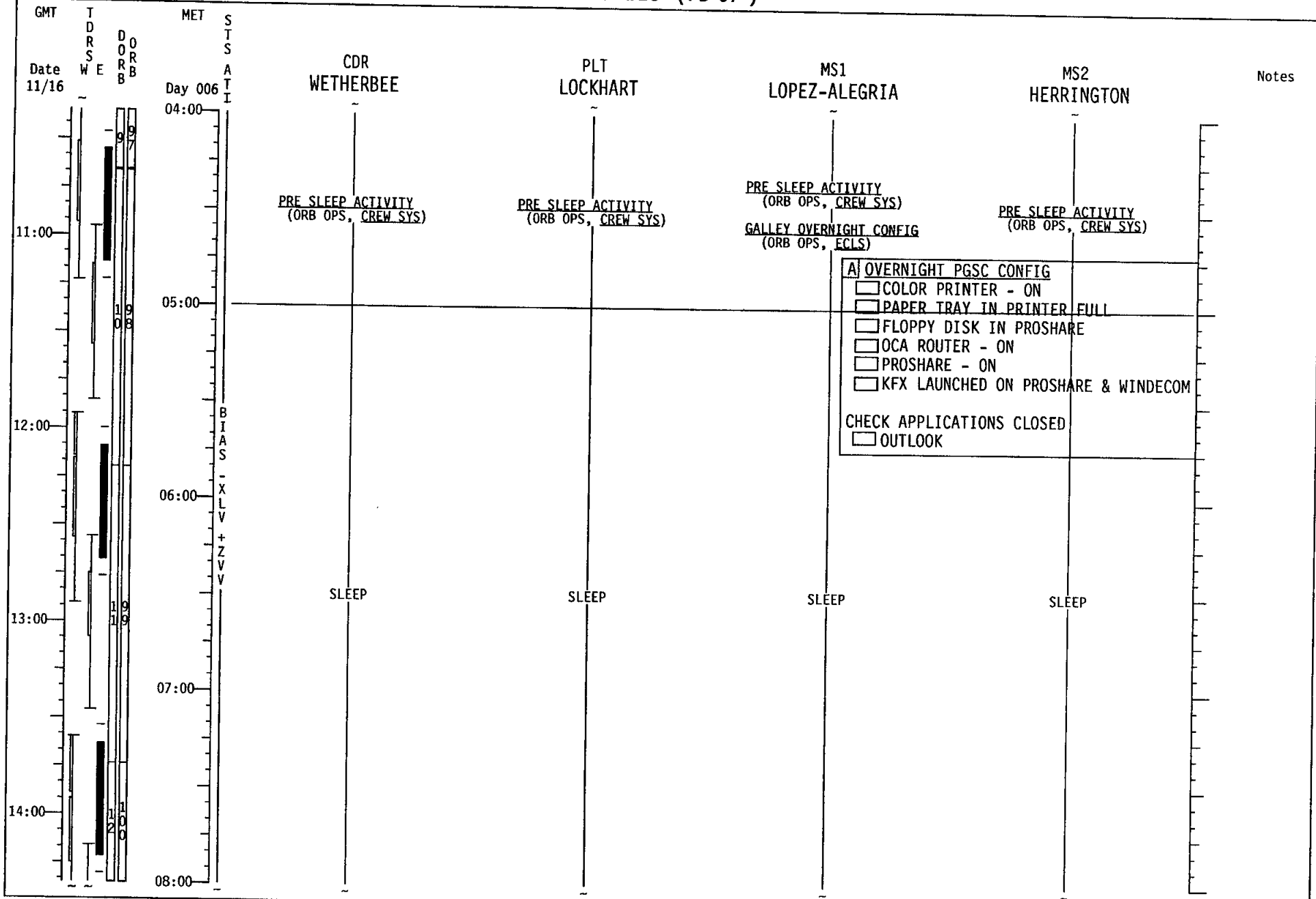
STS-113 (FD 07)

GMT Date 11/16	T D R S W E	D O R B	MET Day 006	S T S A T I T	CDR WETHERBEE	PLT LOCKHART	MS1 LOPEZ-ALEGRIA	MS2 HERRINGTON	Notes
			00:00		<u>SUPPLY/WASTE WATER DUMP</u> (ORB OPS, ECLS) Initiate Simo Supply/Waste Dump	<u>TRANSFER OPS</u> REF. XFER LIST	<u>PGBA TRANSFER MDDK TO ISS</u> (ASSY OPS, TRANSFER)		
			07:00	B I A S				EXERCISE	
			01:00	X L V + Y V V	<u>SUPPLY/WASTE WATER DUMP</u> (ORB OPS, ECLS) Terminate Waste Dump <u>CWC OVERBOARD DUMP (INIT)</u> (ORB OPS, ECLS) steps1-3 Dump 1 Cond CWC, S/N #### <u>SUPPLY/WASTE WATER DUMP</u> (ORB OPS, ECLS) Terminate Supply Dump <u>CWC OVERBOARD DUMP (TERM)</u> (ORB OPS, ECLS) steps4-6	<u>EVA PROCEDURE REVIEW</u> REF: <u>EVA BRIEFING CARD</u> (EVA, 11A EVA)	<u>EVA PROCEDURE REVIEW</u> REF: <u>EVA BRIEFING CARD</u> (EVA, 11A EVA)	<u>EVA PROCEDURE REVIEW</u> REF: <u>EVA BRIEFING CARD</u> (EVA, 11A EVA)	
			08:00		<u>MNVR (TRK) BIAS -XLV +ZVV</u> TG=2 BV=5 P=156 Y=359 OM=356 Init TRK A12/AUTO/VERN				
			02:00		<u>H/O ATT CNTL ORB TO CMGTA</u> (JOINT OPS, MATED OPS)		<u>DAILY MCC TRANSFER BRIEFING</u>		
			09:00	B I A S	<u>PRE SLEEP ACTIVITY</u> (ORB OPS, CREW SYS) <u>VIDEO CONFERENCING</u> (ORB OPS, PGSC) Private Medical Conference				OCA-PMC
			03:00	X L V + Z V V V	<u>PRE SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>PRE SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>PRE SLEEP ACTIVITY</u> (ORB OPS, CREW SYS) <u>GALLEY OVERNIGHT CONFIG</u> (ORB OPS, ECLS)	<u>PRE SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	
			10:00						
			04:00						

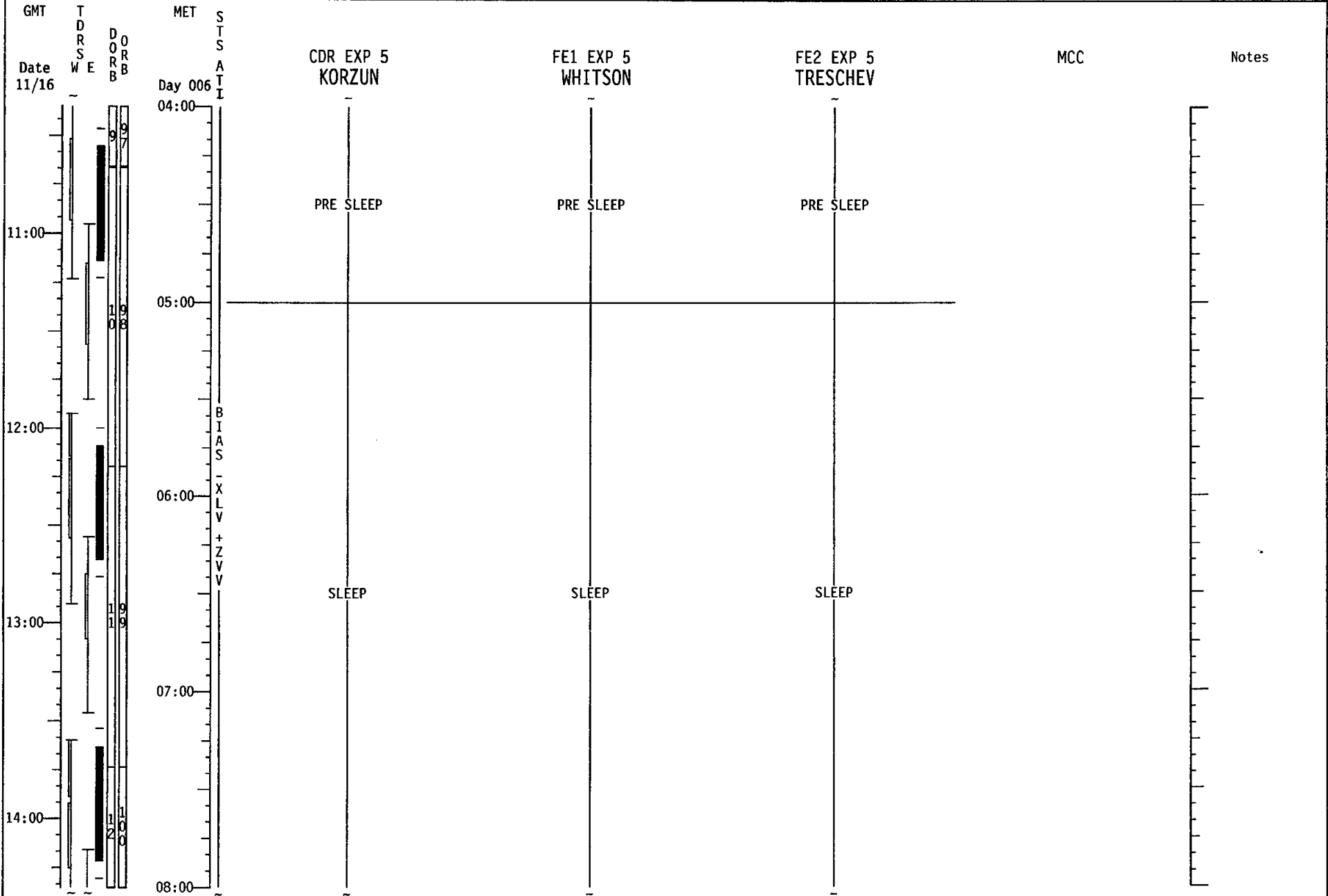
STS-113 (FD 07)



STS-113 (FD 07)



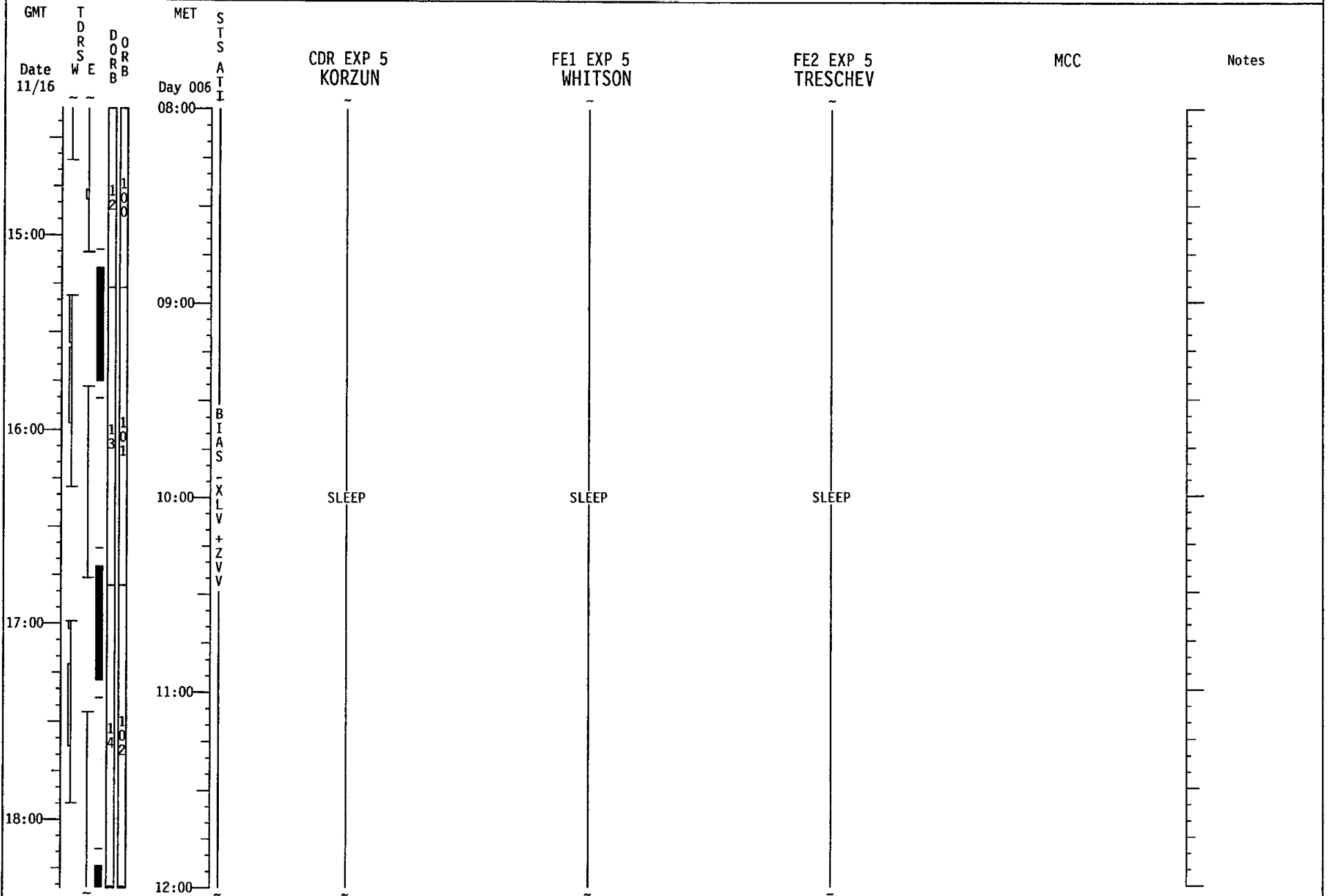
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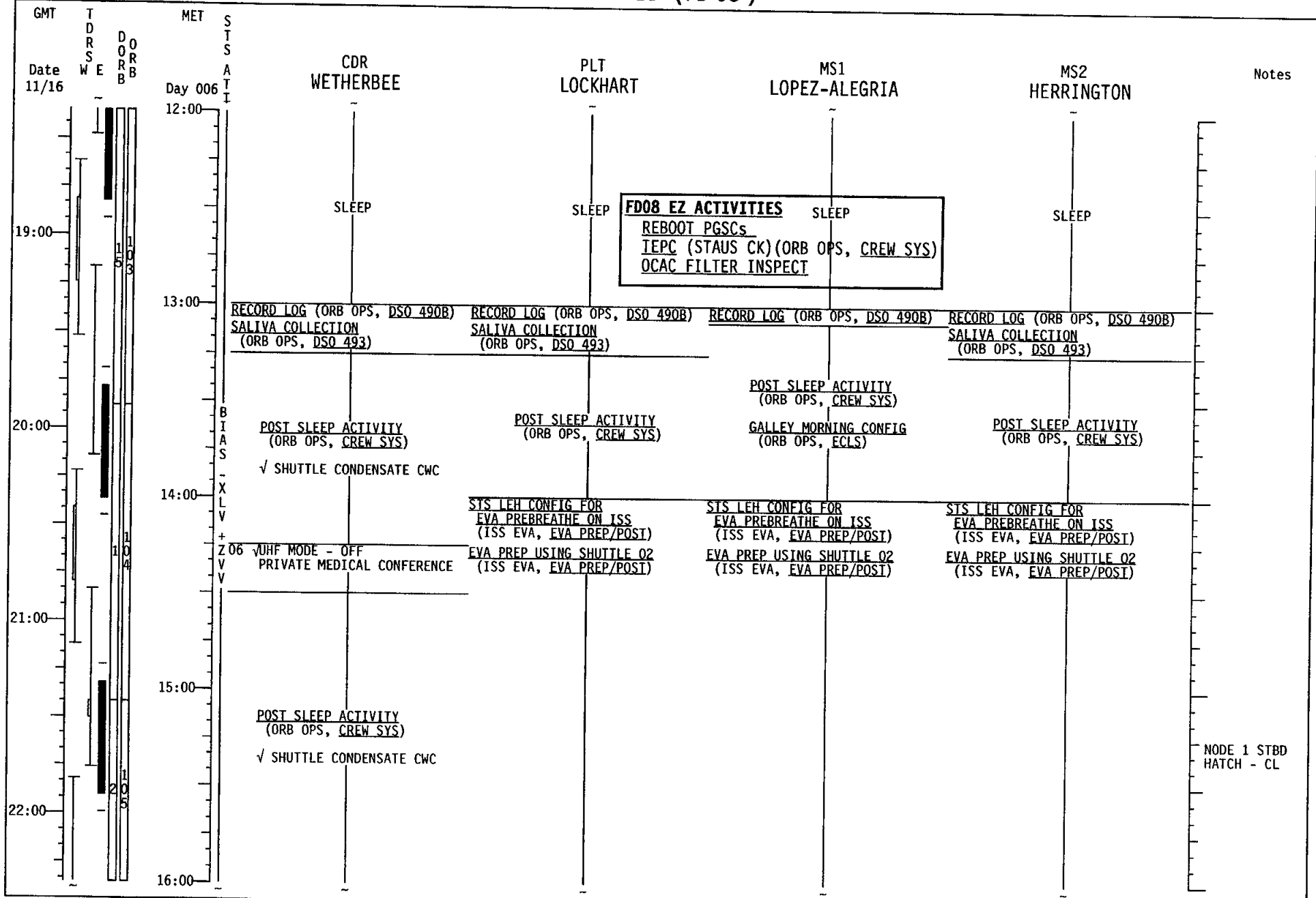
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GMT Date 11/16	T D R S W E	D O R R B B	MET Day 006	S T S A T I	CDR WETHERBEE	PLT LOCKHART	MS1 LOPEZ-ALEGRIA	MS2 HERRINGTON	Notes
			08:00						
			09:00						
			10:00	B I A S - X L V + Z V V	SLEEP	SLEEP	SLEEP	SLEEP	
			11:00						
			12:00						

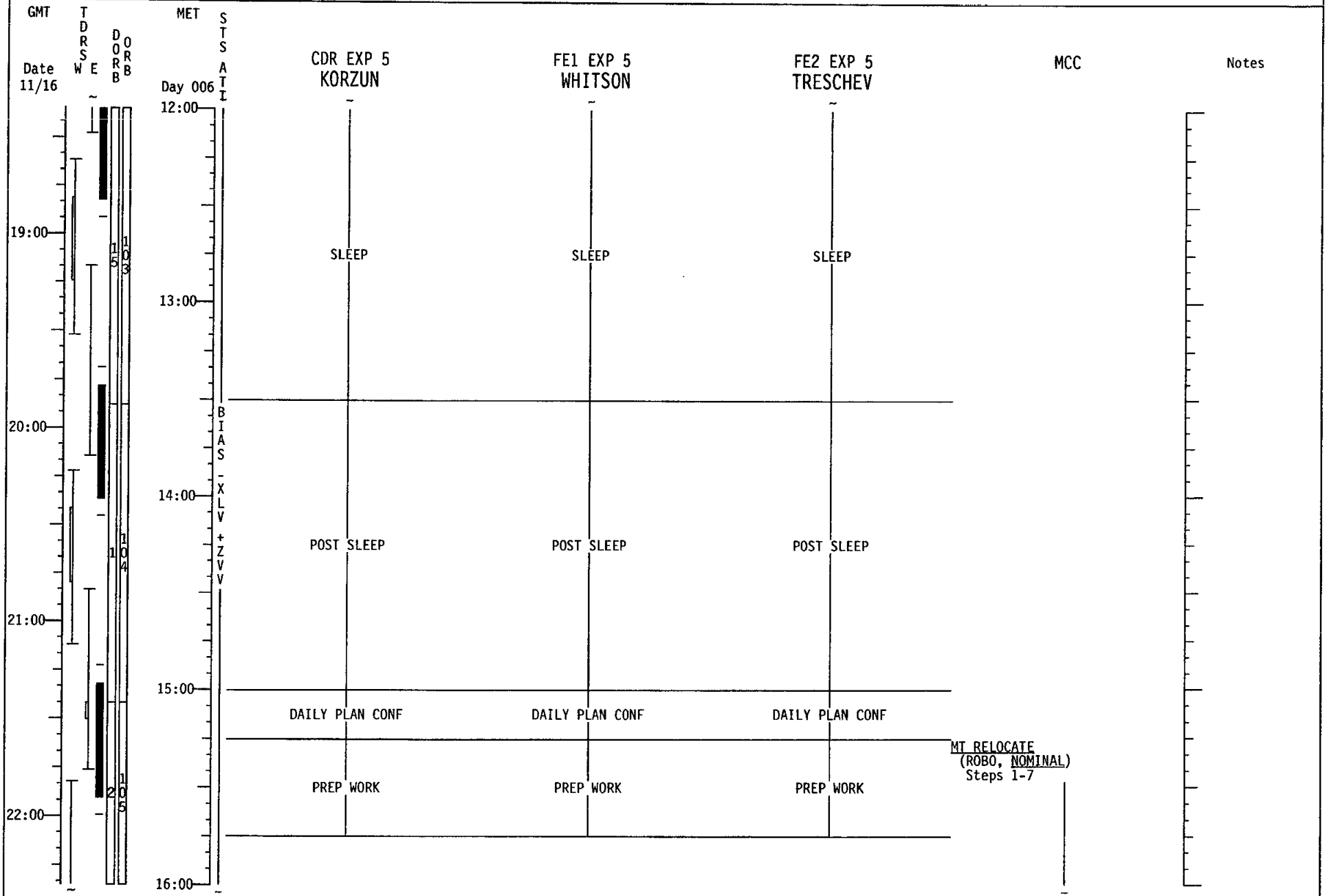
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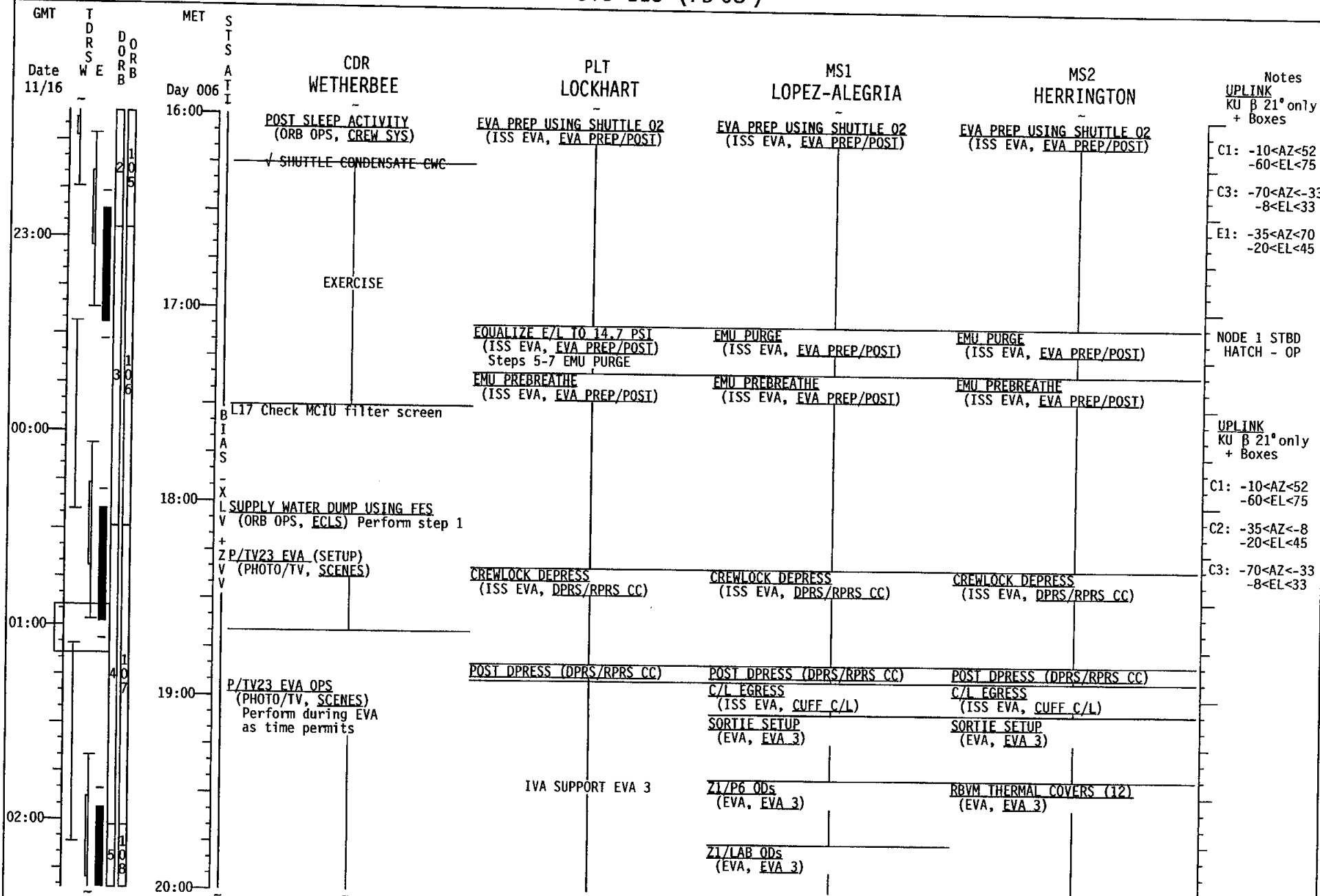
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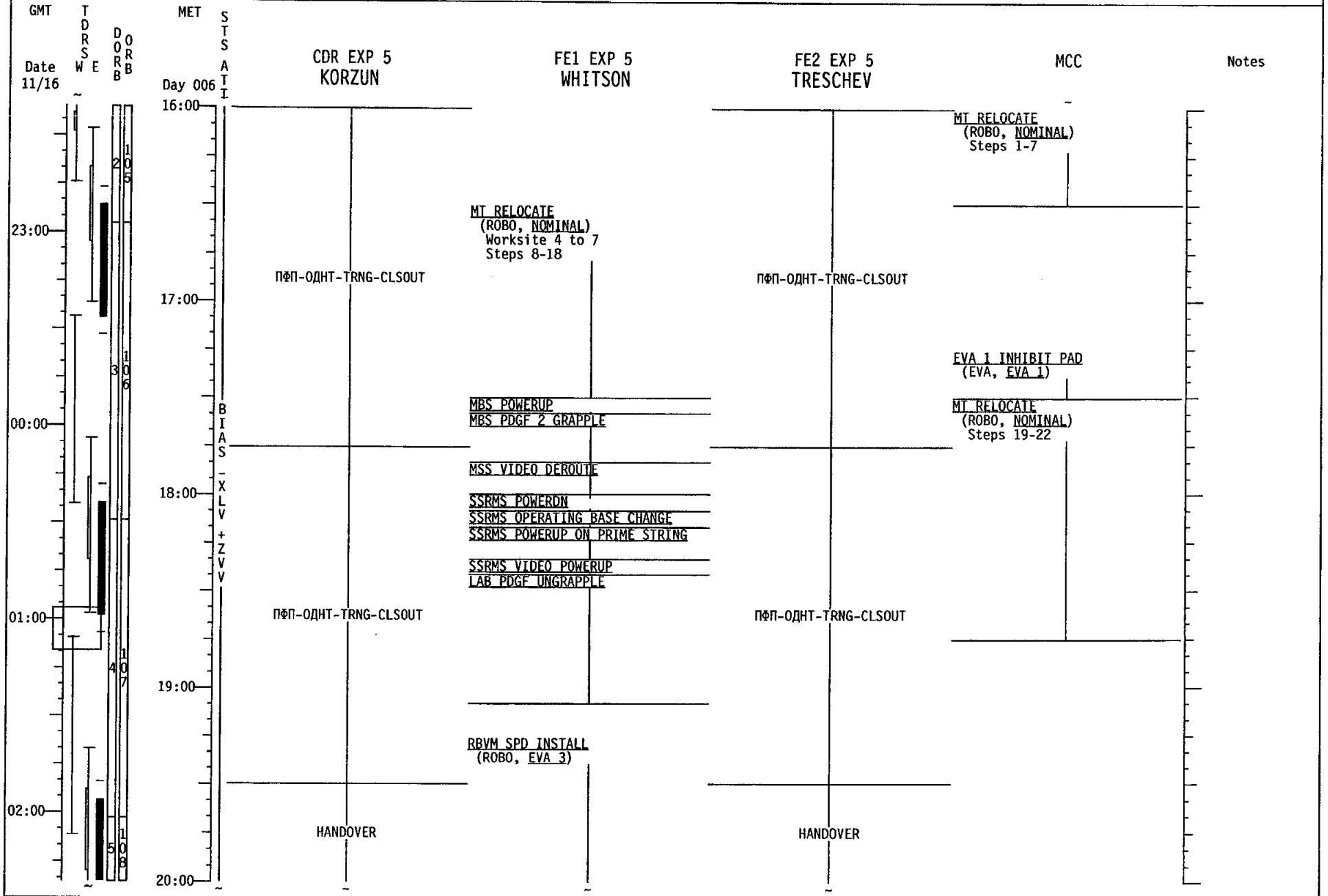
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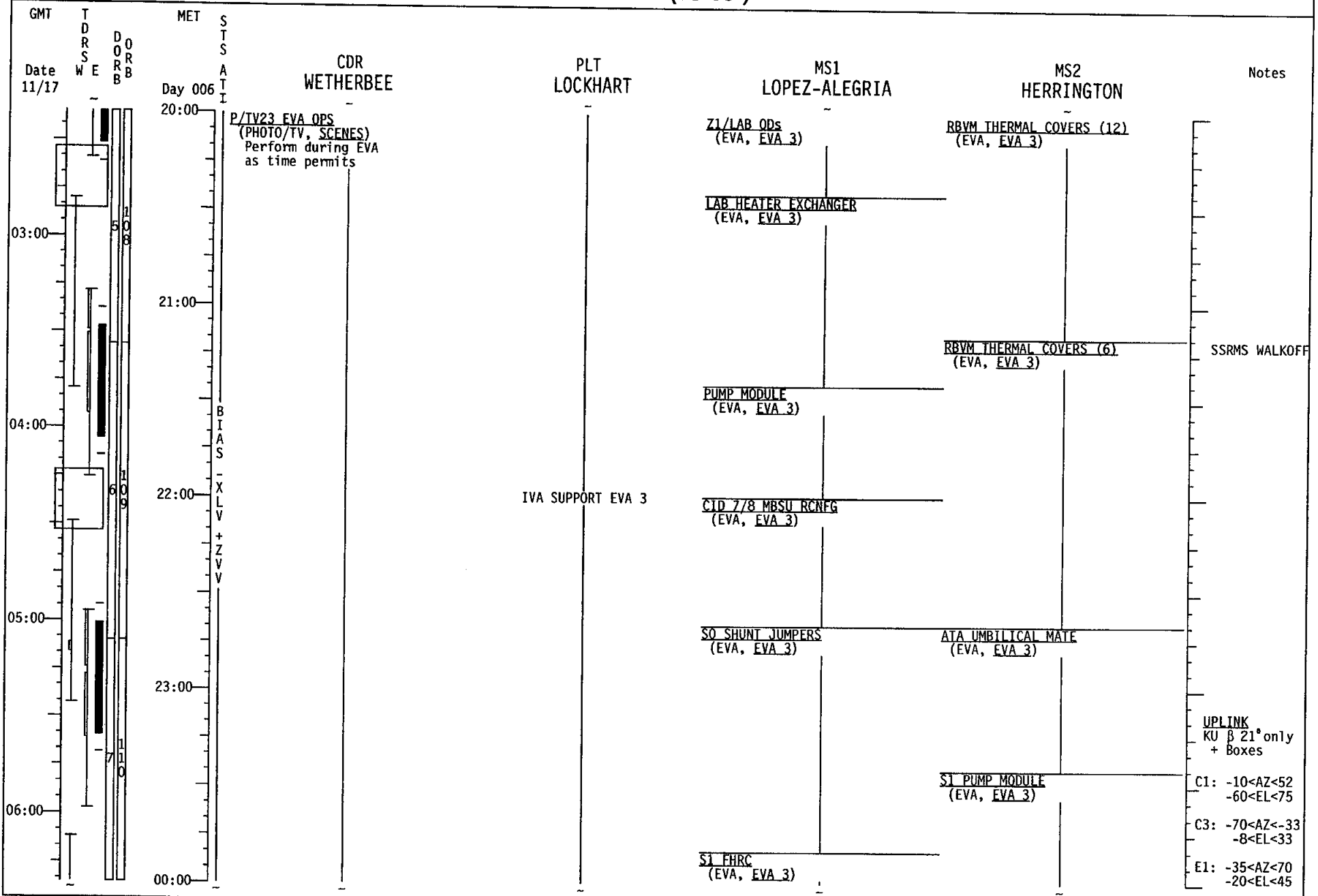
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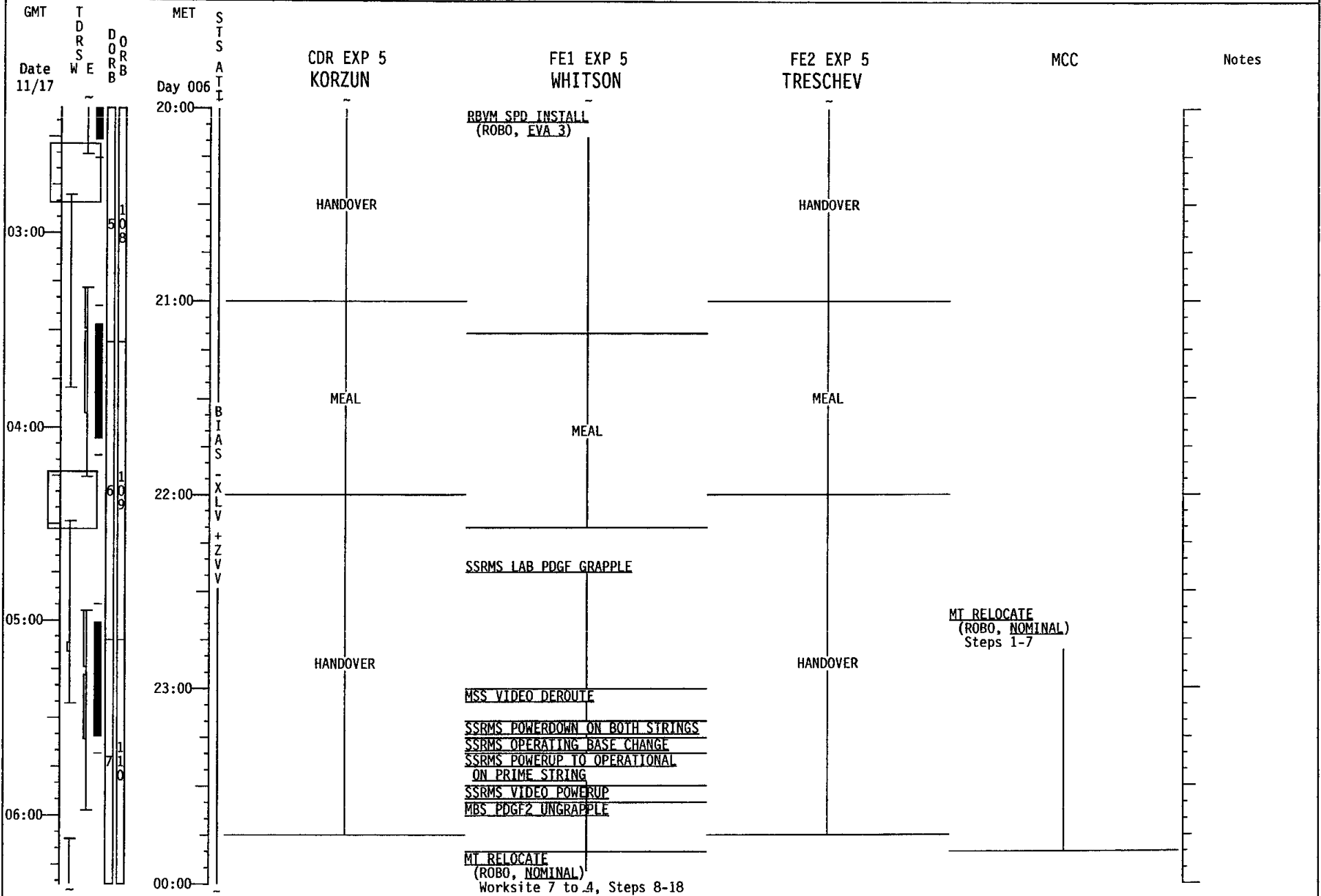
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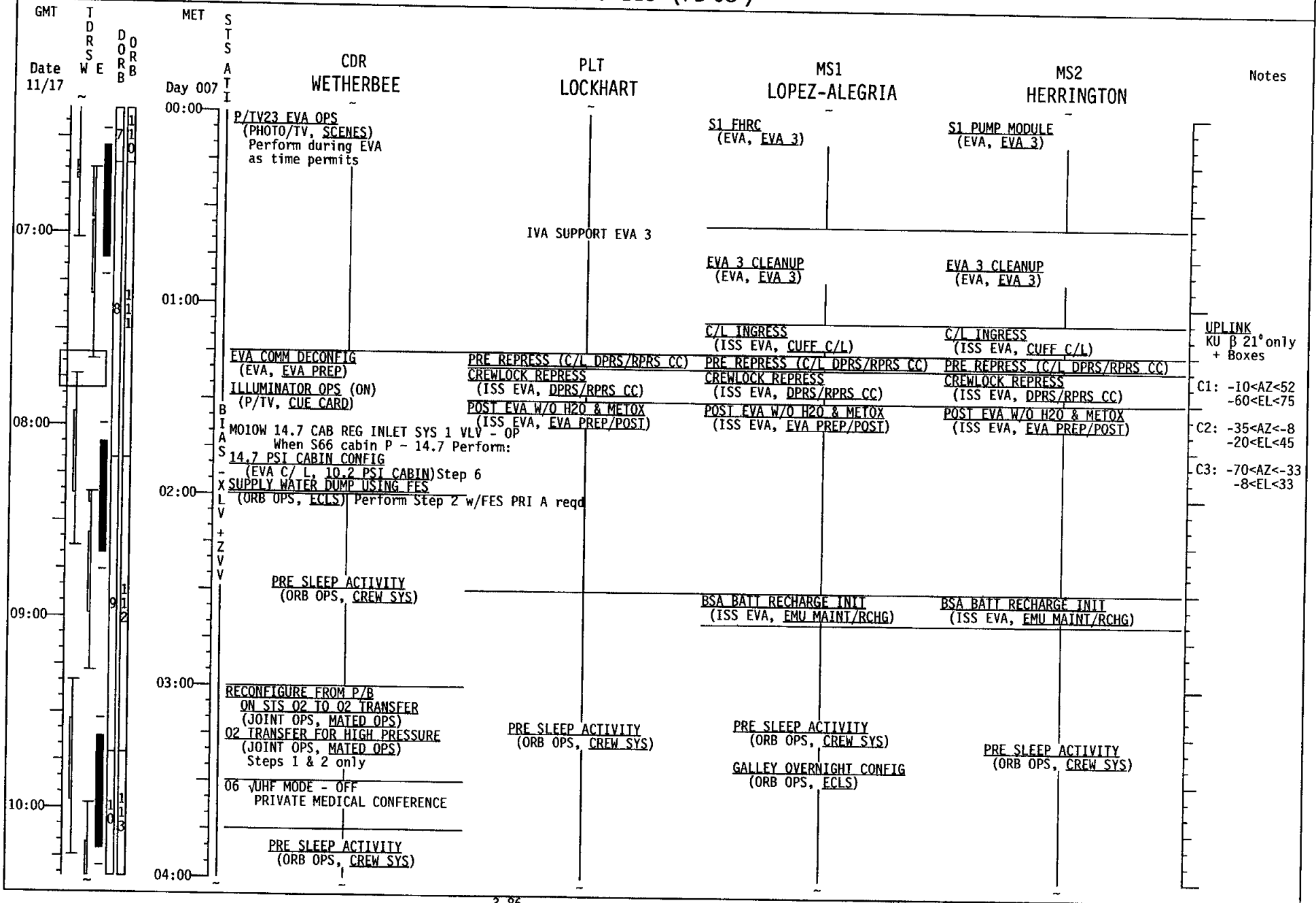
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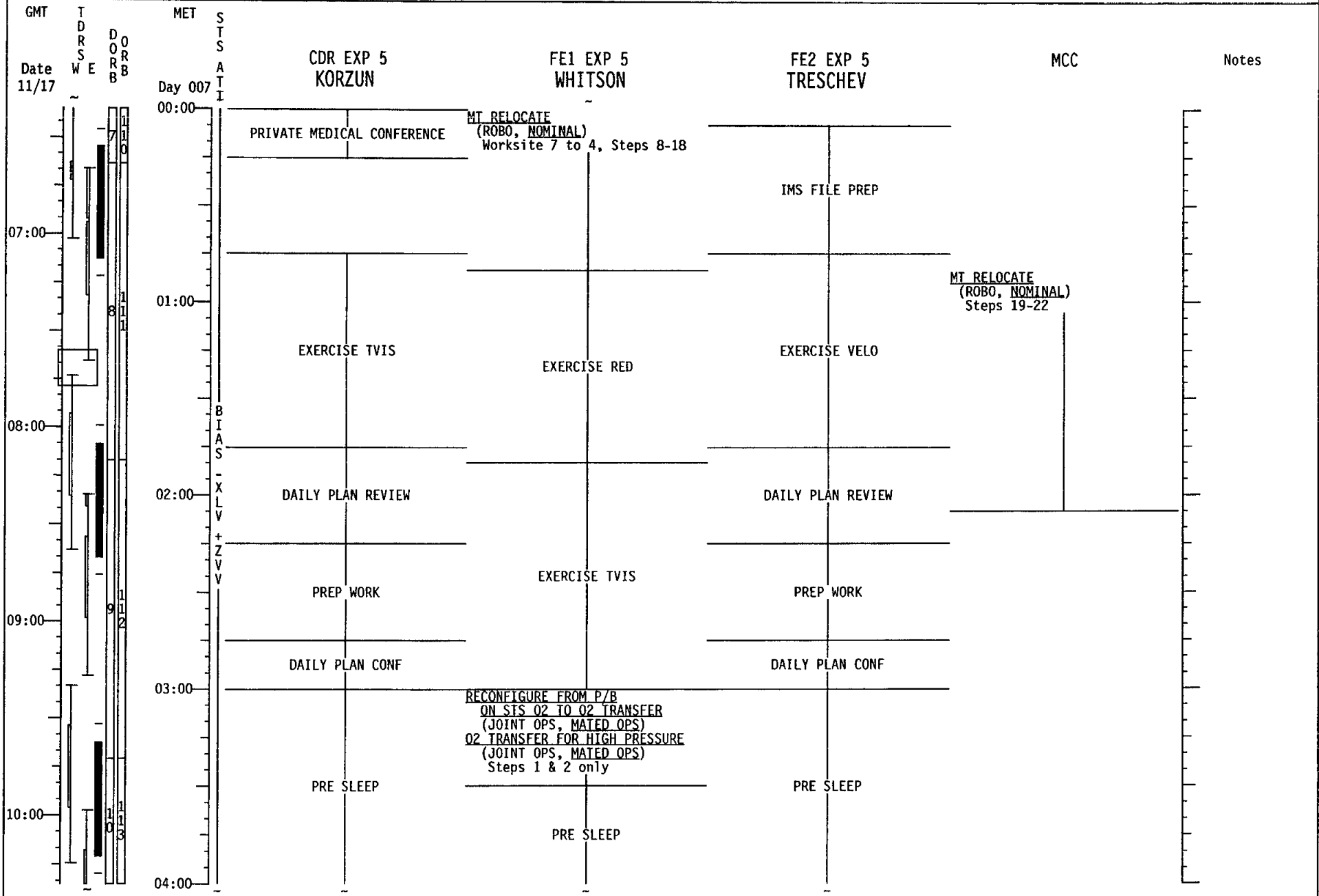
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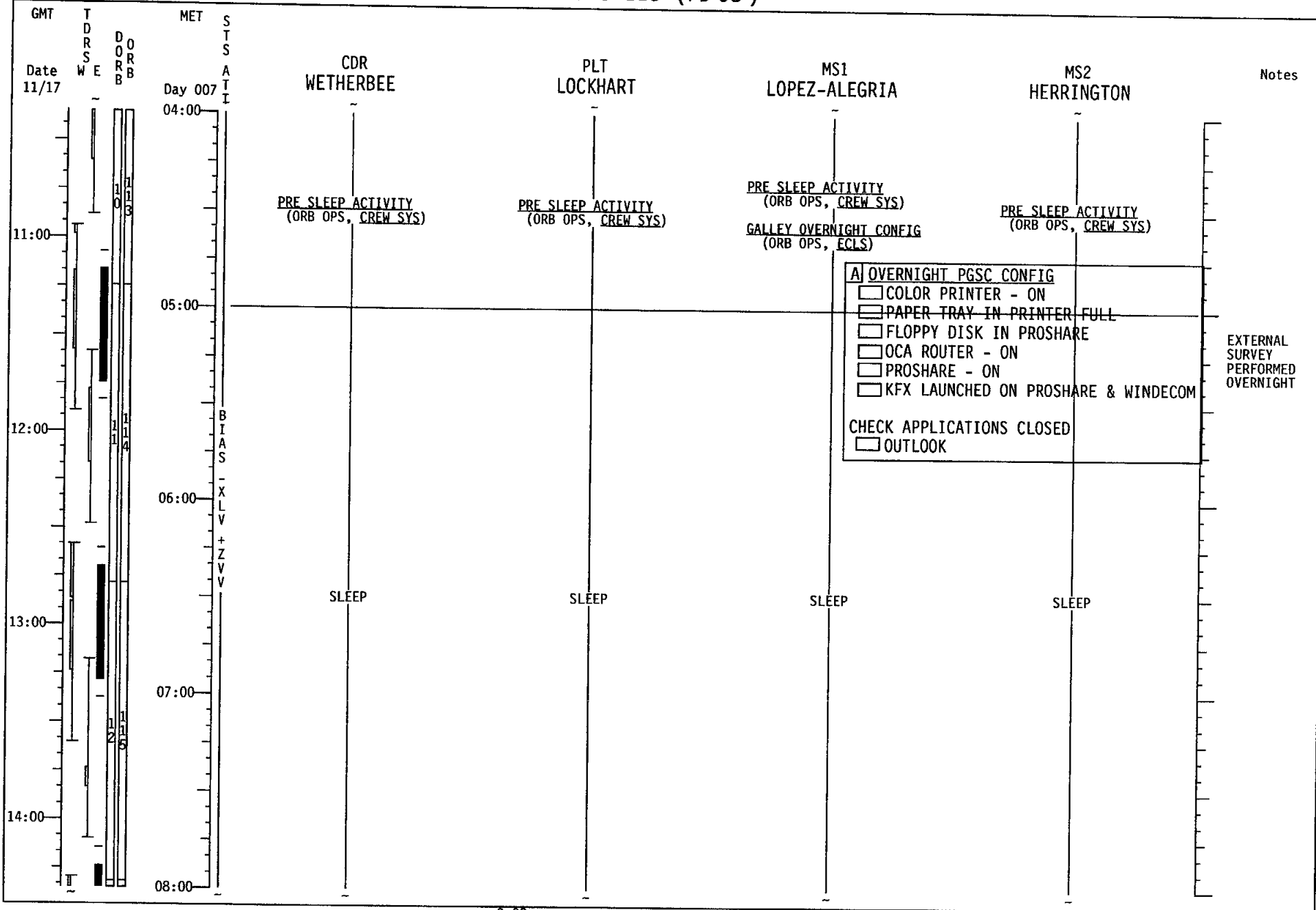
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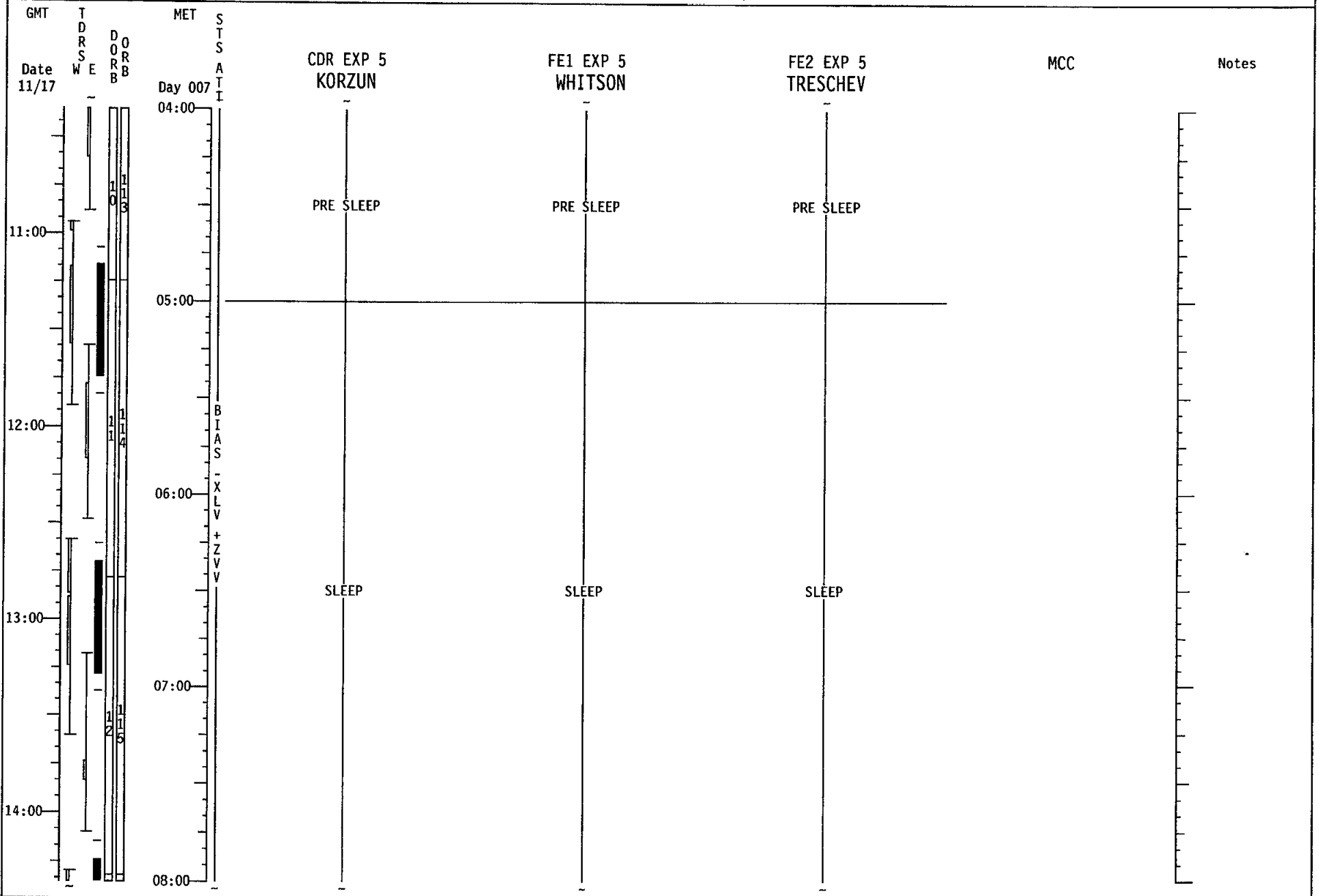
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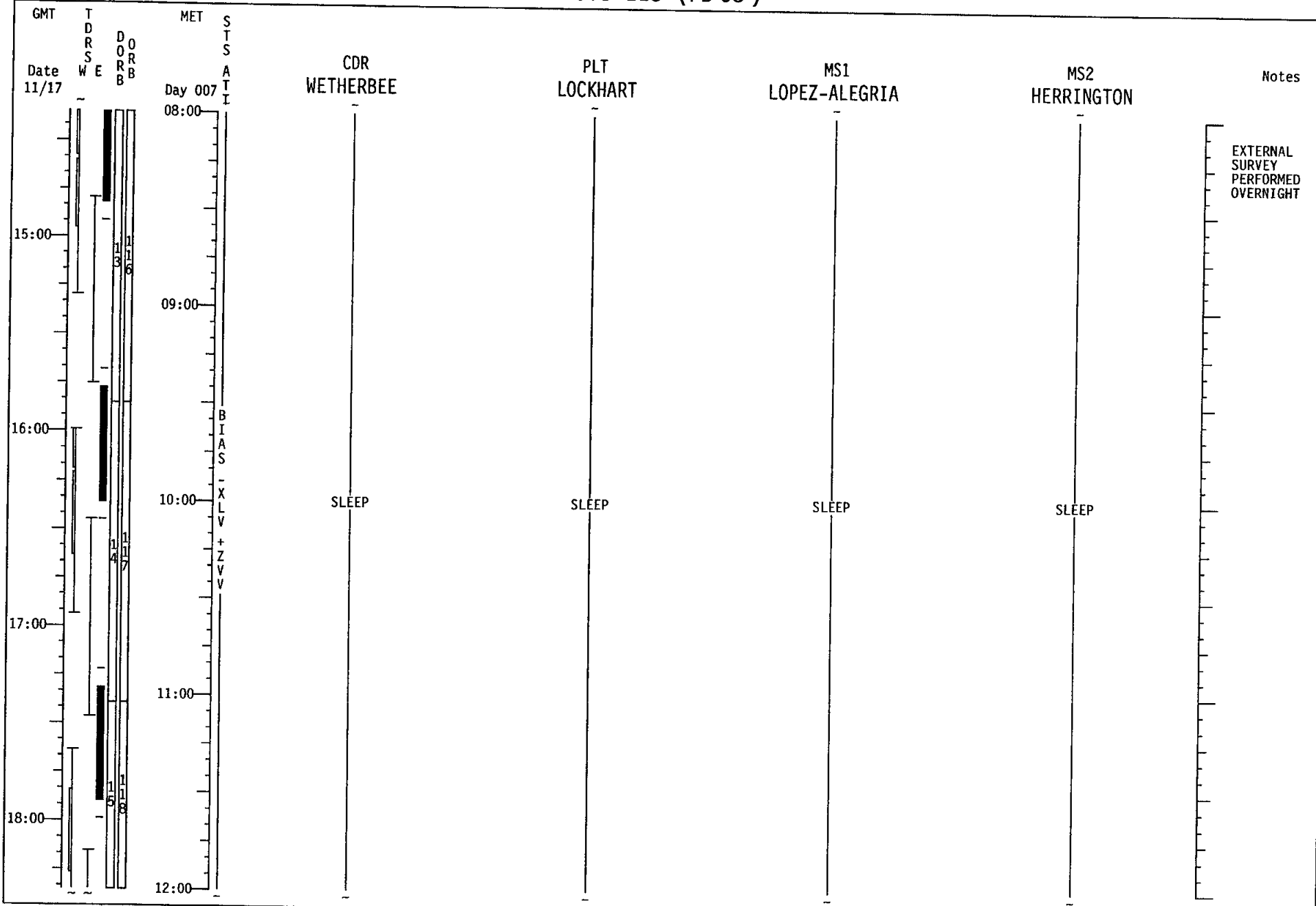
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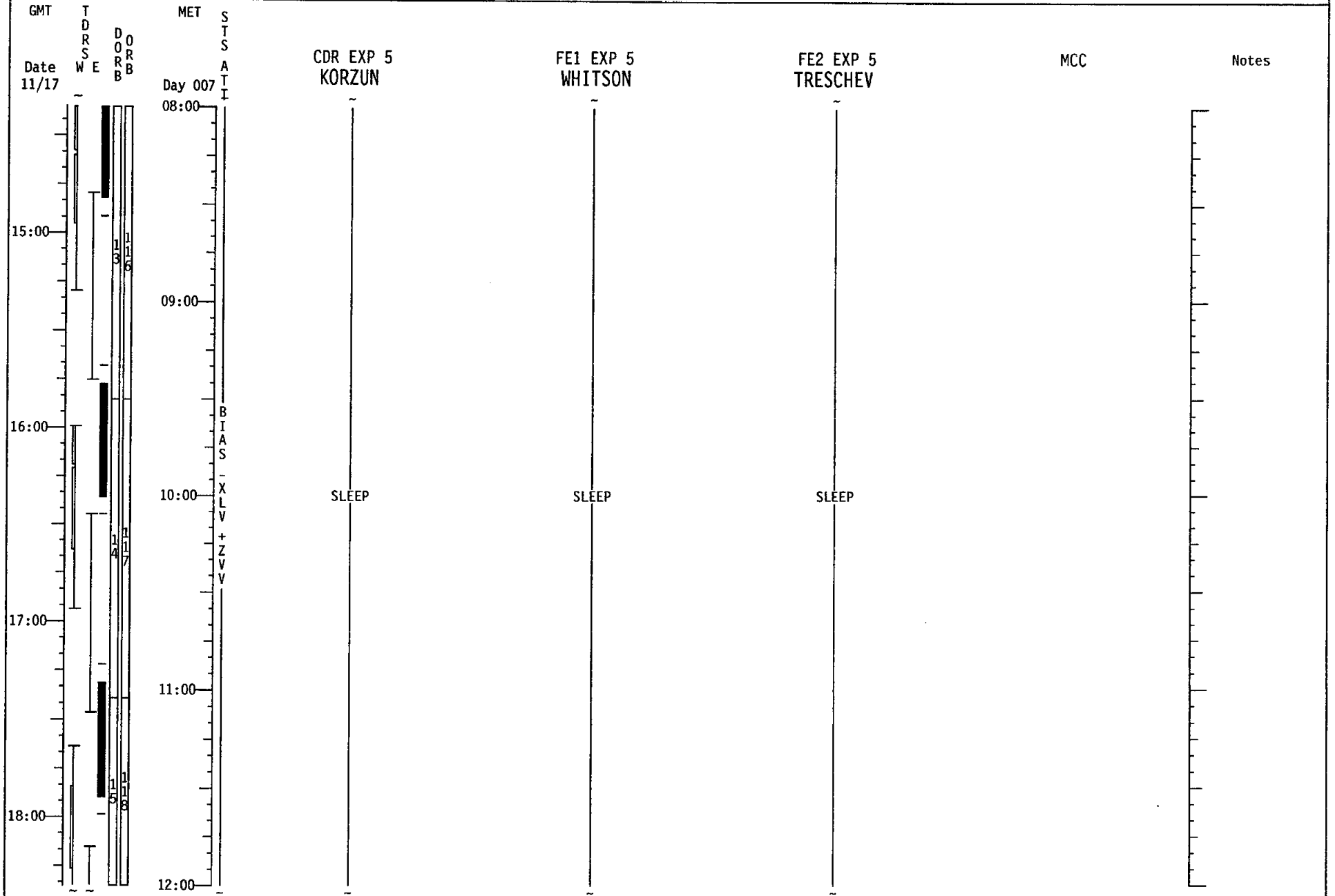
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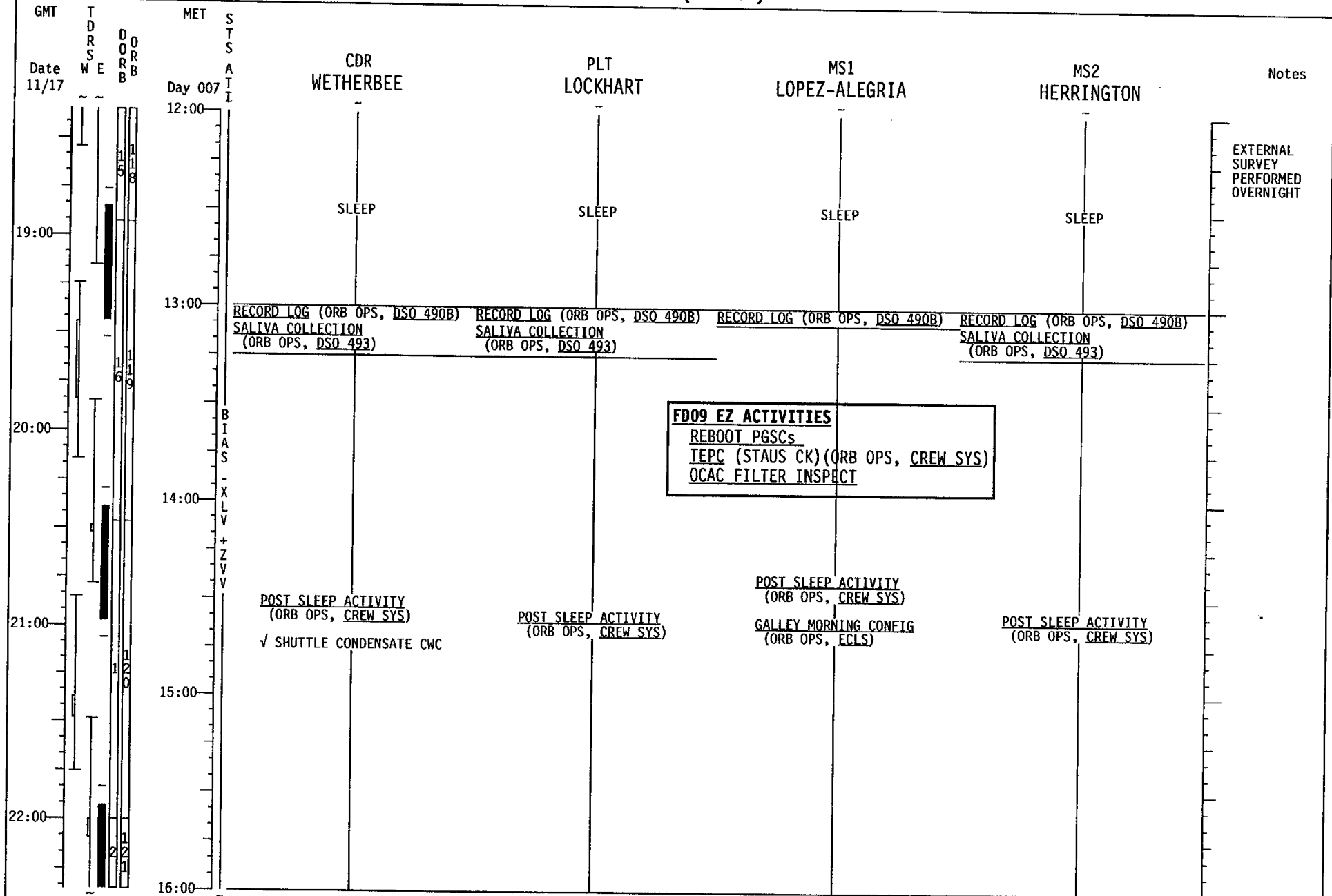
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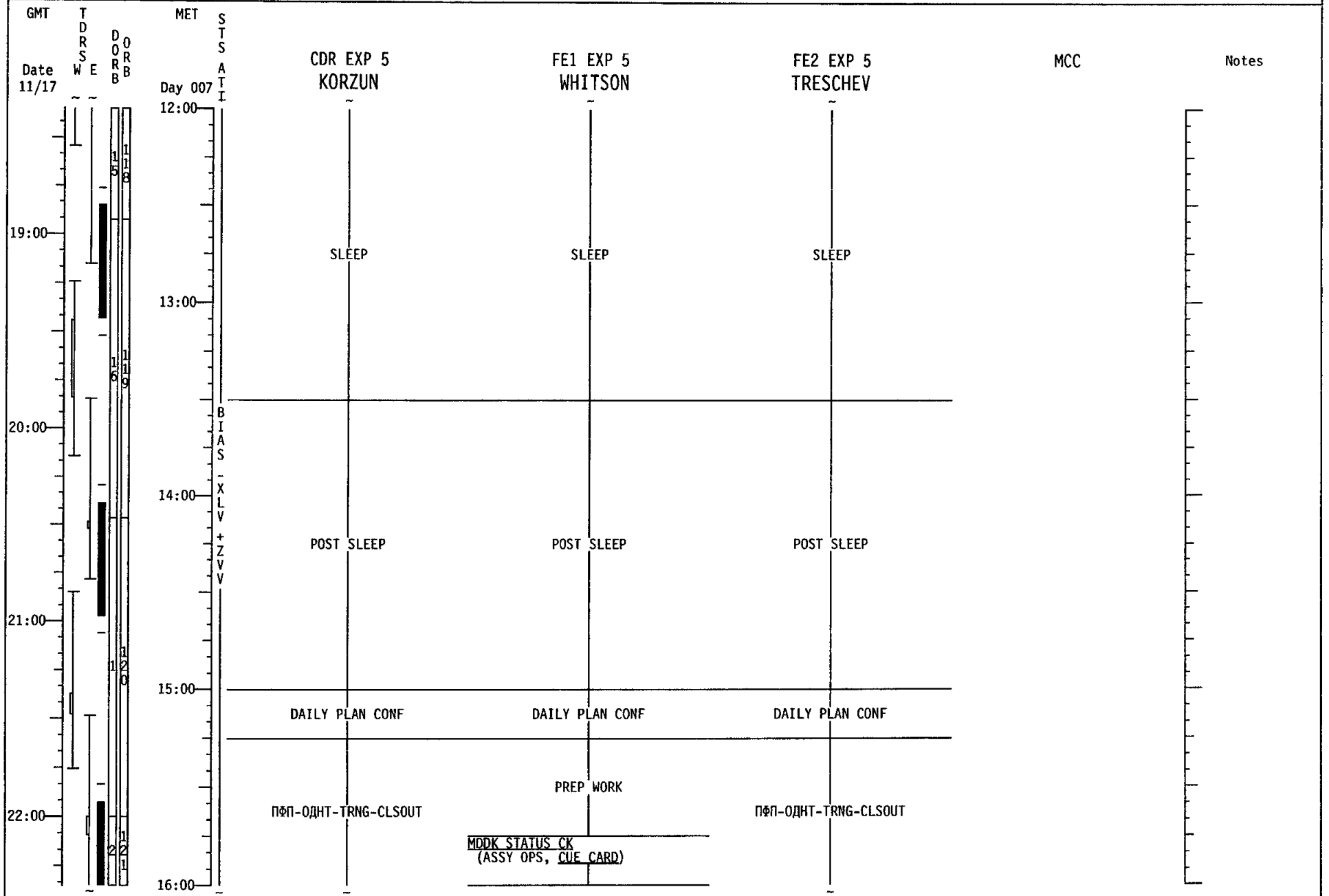
STS-113 (FD 08)



STS-113 (FD 09)



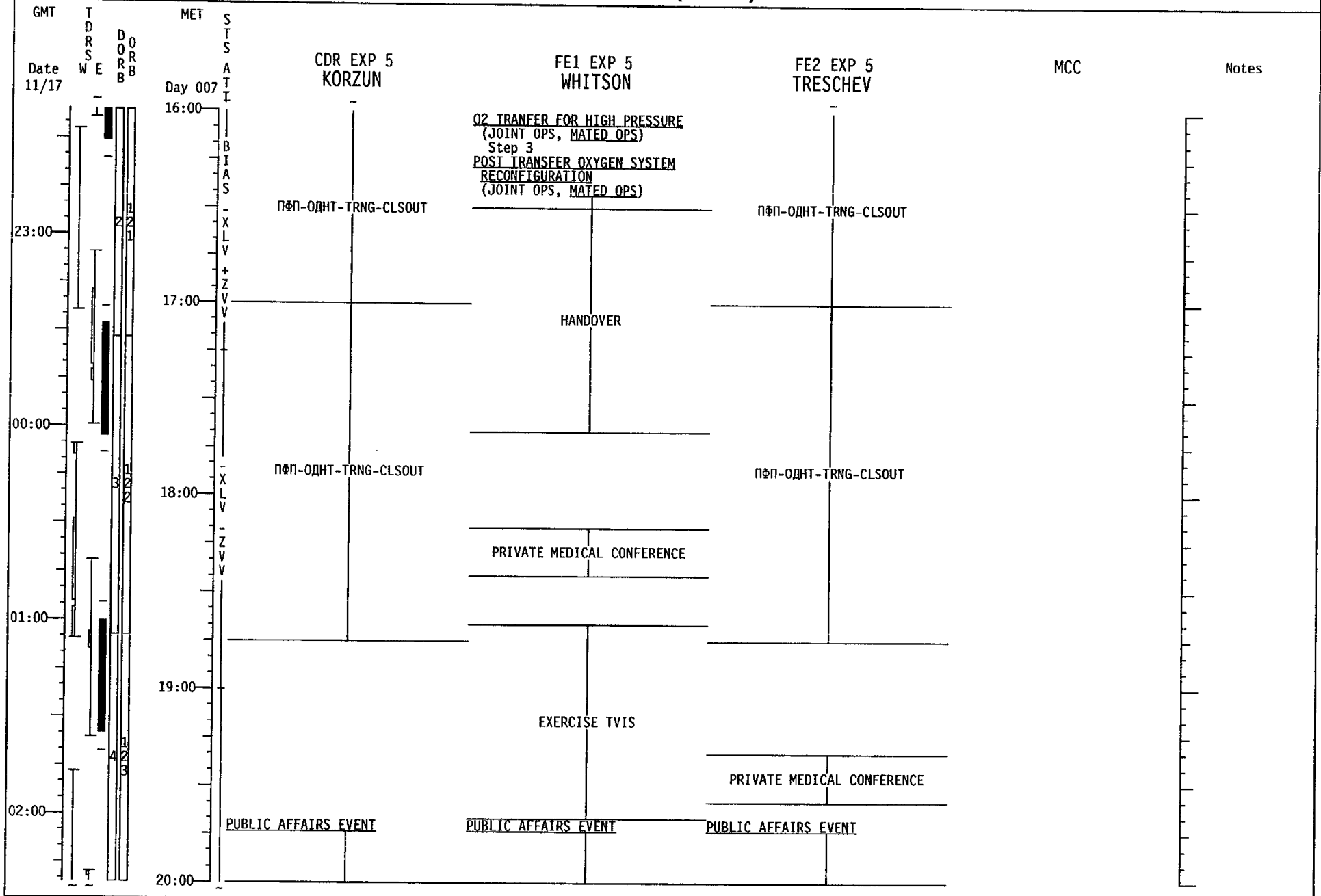
STS-113 (FD 09)



STS-113 (FD 09)

GMT	TDRS W E	DOORB B	MET Day 007	STS ATT CDR WETHERBEE	PLT LOCKHART	MS1 LOPEZ-ALEGRIA	MS2 HERRINGTON	Notes
16:00				<p><u>O2 TRANSFER FOR HIGH PRESSURE</u> (JOINT OPS, MATED OPS) Step 3</p> <p><u>POST TRANSFER OXYGEN SYSTEM</u> <u>RECONFIGURATION</u> (JOINT OPS, MATED OPS)</p>	<p><u>REBA REMOVAL</u> (ISS EVA, EMU MAINT/RCHRG)</p> <p><u>EMU PREP FOR TRANSFER</u> (ISS EVA, A/L CONFIG)</p>	<p>EVA CREW: 1 ASPIRIN (325mg)</p> <p><u>REBA REMOVAL</u> (ISS EVA, EMU MAINT/RCHRG)</p> <p><u>EMU PREP FOR TRANSFER</u> (ISS EVA, A/L CONFIG)</p>	<p>EVA CREW: 1 ASPIRIN (325mg)</p> <p><u>REBA REMOVAL</u> (ISS EVA, EMU MAINT/RCHRG)</p> <p><u>EMU PREP FOR TRANSFER</u> (ISS EVA, A/L CONFIG)</p>	
23:00				<p><u>ILLUMINATOR OPS (OFF)</u> (P/TV, CUE CARD)</p> <p>L17 Check MCIU filter screen</p>				
17:00				<p><u>H/O ATT CNTL CMGTA TO ORB</u> (JOINT OPS, MATED OPS)</p> <p><u>MNVR (TRK) BIAS -XLV -ZVV</u> TG=2 BV=5 P=176 Y=0 OM=180 Init TRK A12/AUTO/VERN When in Att, DAP A11</p>	<p><u>TRANSFER EMUs TO SIS</u> (EVA, A/L CONFIG)</p>	<p><u>TRANSFER EMUs TO SIS</u> (EVA, A/L CONFIG)</p>	<p><u>TRANSFER EMUs TO SIS</u> (EVA, A/L CONFIG)</p>	
00:00				<p><u>AUTO REBOOST</u> (ORB OPS, REBOOST/DAP) CONFIG 3</p>	<p><u>TRANSFER EMUs TO SIS</u> (EVA, A/L CONFIG)</p>	<p><u>TRANSFER EMUs TO ISS</u> (EVA, A/L CONFIG)</p>	<p><u>TRANSFER EMUs TO ISS</u> (EVA, A/L CONFIG)</p>	
18:00					<p><u>EMU RECONFIG</u> (EVA, A/L CONFIG)</p>	<p><u>EMU RECONFIG</u> (EVA, A/L CONFIG)</p>	<p><u>EMU RECONFIG</u> (EVA, A/L CONFIG)</p>	
01:00					<p><u>TRANSFER OPS</u> REF. XFER LIST</p>	<p><u>RNDZ PGSC SETUP</u> (REF DATA, UTIL PWR) Use PGSC Usage Chart and Plug-In-Plan</p>	<p><u>RNDZ PGSC SETUP</u> (REF DATA, UTIL PWR) Use PGSC Usage Chart and Plug-In-Plan</p>	
19:00				<p><u>MNVR (TRK) BIAS -XLV +ZVV</u> TG=2 BV=5 P=156 Y=359 OM=356 Init TRK A12/AUTO/VERN</p>		<p><u>RNDZ TOOLS CHECKOUT</u> (RNDZ, RNDZ TOOLS)</p>	<p><u>RNDZ TOOLS CHECKOUT</u> (RNDZ, RNDZ TOOLS)</p>	UPLINK TGT SV
02:00				<p><u>H/O ATT CNTL ORB TO CMGTA</u> (JNT OPS, MATED OPS)</p> <p><u>PUBLIC AFFAIRS EVENT</u> KU AVAIL TDRS 20:11 - 20:35 Ref MSG ###</p>	<p><u>P/TV21 ISS INTERL (S/U)</u> (PHOTO/TV, SCENES)</p> <p><u>PUBLIC AFFAIRS EVENT</u></p>	<p><u>DAILY MCC TRANSFER</u> BRIEFING</p> <p><u>PUBLIC AFFAIRS EVENT</u></p>	<p><u>PUBLIC AFFAIRS EVENT</u></p>	UPLINK CONFIG 760 TFL 184
20:00								

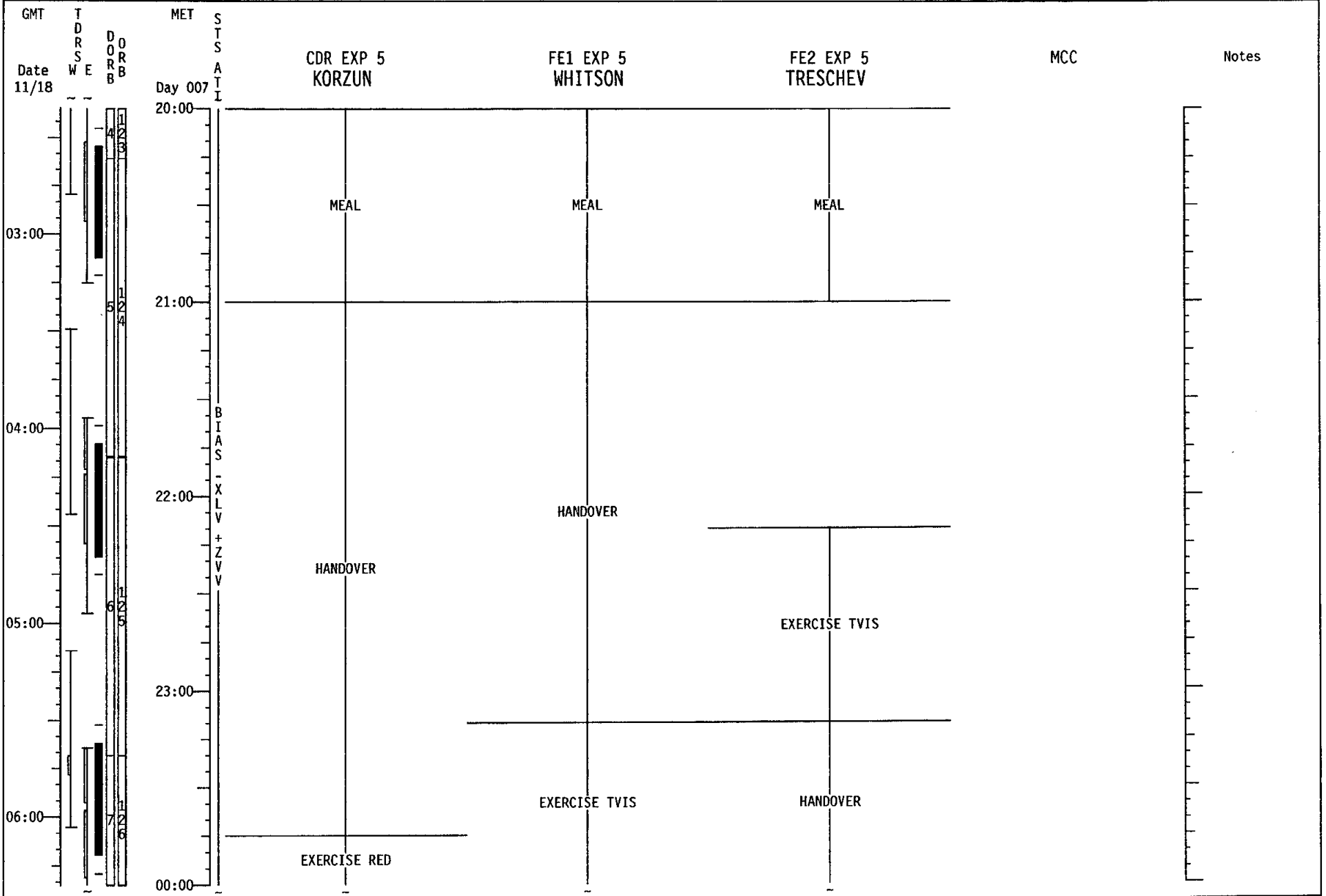
STS-113 (FD 09)



STS-113 (FD 09)

GMT Date 11/18	TDRS W E	DOORB B	MET Day 007	S T S A T I	CDR WETHERBEE	PLT LOCKHART	MS1 LOPEZ-ALEGRIA	MS2 HERRINGTON	Notes
03:00			20:00		MEAL	MEAL	MEAL	MEAL	
04:00			21:00						
05:00			22:00	B I A S - X L V + Z V V	OFF DUTY	OFF DUTY	OFF DUTY	OFF DUTY	
06:00			23:00						
			00:00						UPLINK PSP DEACT

STS-113 (FD 09)



STS-113 (FD 09)

GMT Date 11/18	TDRS W E	DORR B B	MET Day 008	S T S A T I	CDR WETHERBEE	PLT LOCKHART	MS1 LOPEZ-ALEGRIA	MS2 HERRINGTON	Notes
07:00			00:00		OFF DUTY	OFF DUTY	OFF DUTY	OFF DUTY	
			01:00		SHUTTLE CONDENSATE COLLECTION CHANGEOUT (ORB OPS, ECLS) Use CWC s/n ### ILLUMINATOR OPS (ON) (P/TV, CUE CARD)				
08:00									
			02:00						
09:00					PRE SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE SLEEP ACTIVITY (ORB OPS, CREW SYS) GALLEY OVERNIGHT CONFIG (ORB OPS, ECLS)	PRE SLEEP ACTIVITY (ORB OPS, CREW SYS)	
10:00			03:00						
04:00									

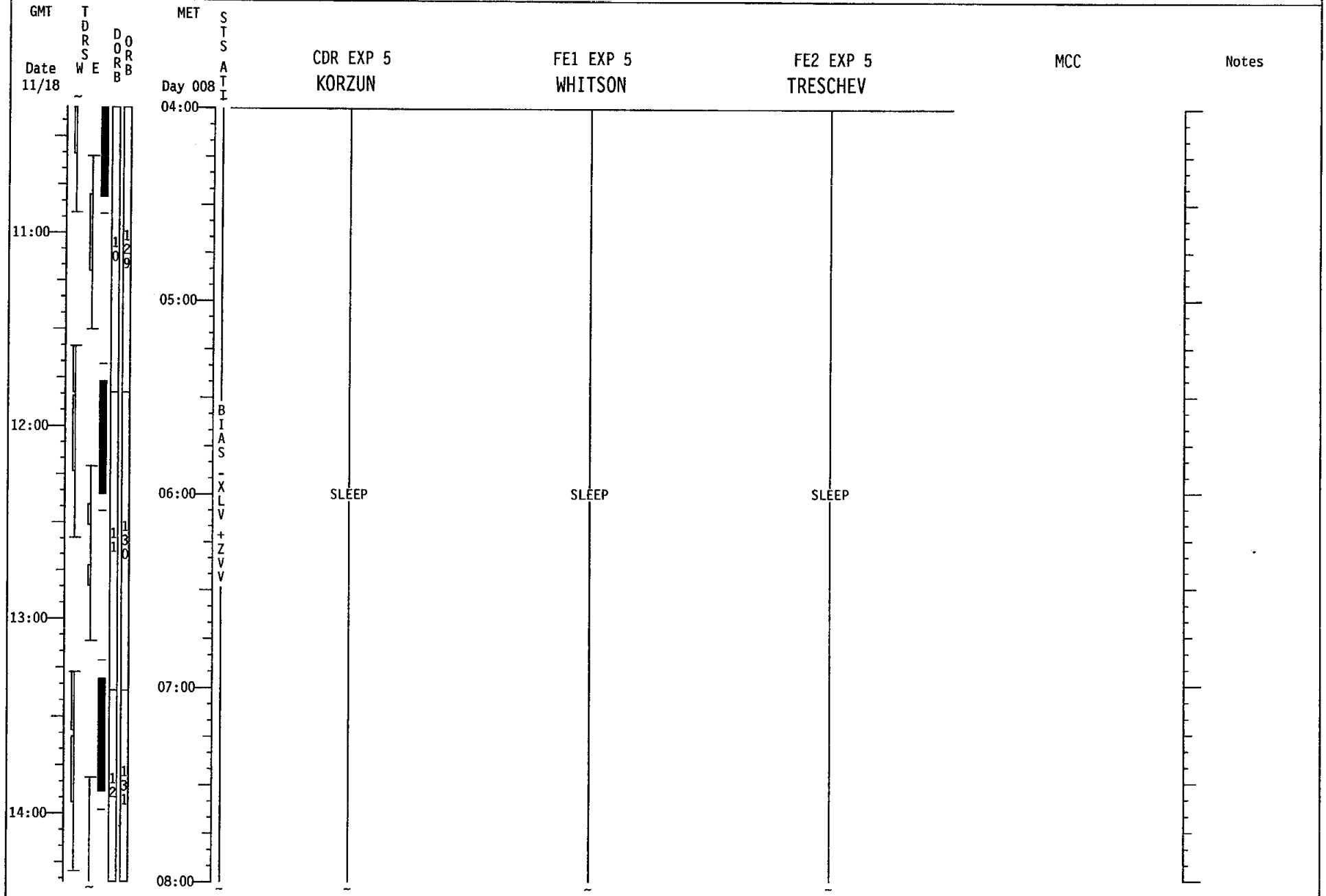
STS-113 (FD 09)

GMT	TDRS WE	DORBB	MET	STS AT I	CDR EXP 5 KORZUN	FE1 EXP 5 WHITSON	FE2 EXP 5 TRESCHEV	MCC	Notes
Date 11/18			Day 008						
07:00					EXERCISE RED	EXERCISE TVIS	HANDOVER		
						MDDK STATUS CK (ASSY OPS, CUE CARD)	IMS FILE PREP		
					DAILY PLAN REVIEW	DAILY PLAN REVIEW	DAILY PLAN REVIEW		
					PREP WORK	PREP WORK	PREP WORK		
08:00					DAILY PLAN CONF	DAILY PLAN CONF	DAILY PLAN CONF		
09:00					PRE SLEEP	PRE SLEEP	PRE SLEEP		
10:00									
04:00									

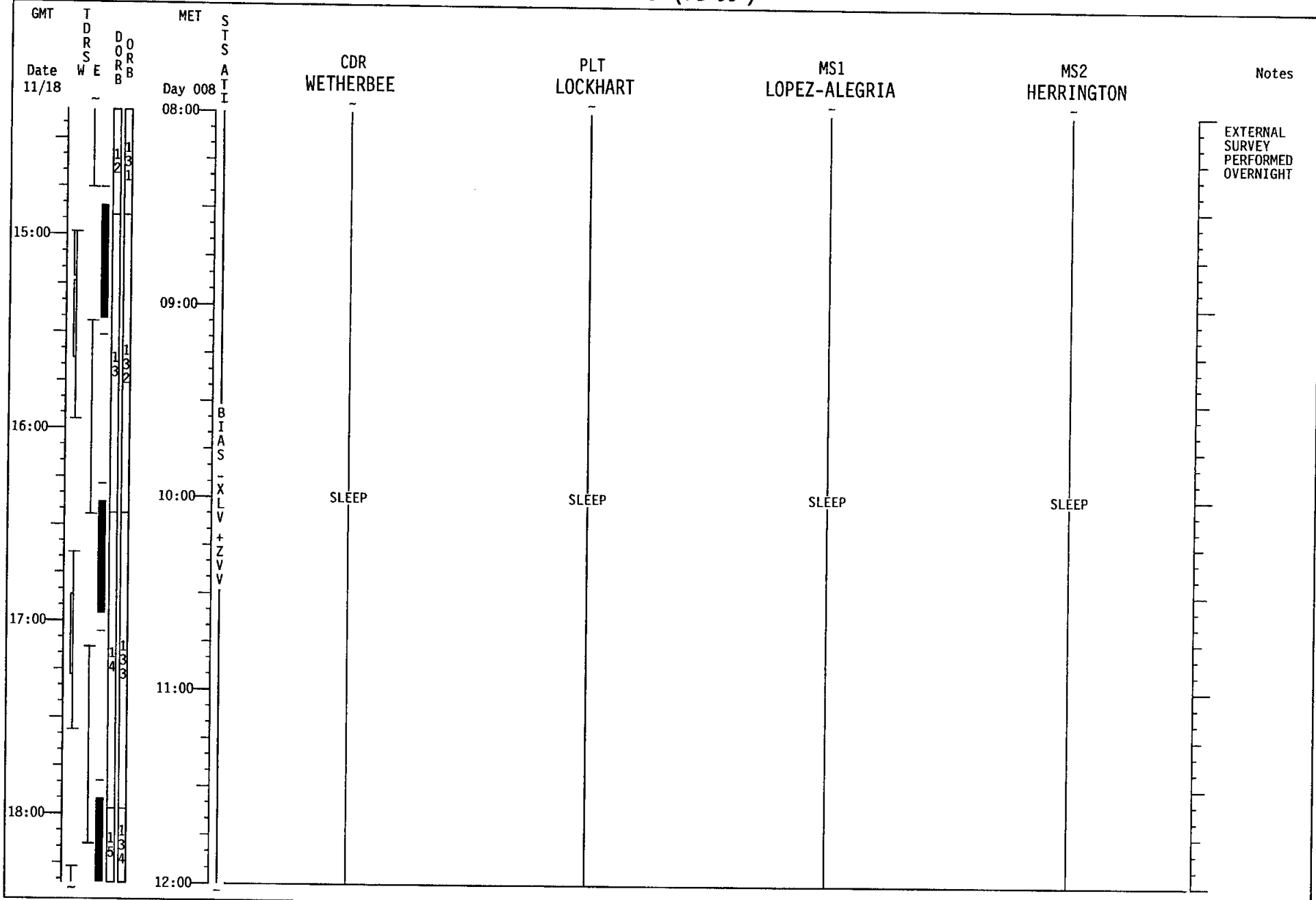
STS-113 (FD 09)

GMT Date 11/18	TDRS WE	DORB ORB	MET Day 008	STS ATT I	CDR WETHERBEE	PLT LOCKHART	MS1 LOPEZ-ALEGRIA	MS2 HERRINGTON	Notes
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">11:00</div> <div style="margin-bottom: 10px;">12:00</div> <div style="margin-bottom: 10px;">13:00</div> <div style="margin-bottom: 10px;">14:00</div> <div style="margin-bottom: 10px;">08:00</div> </div>			<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">04:00</div> <div style="margin-bottom: 10px;">05:00</div> <div style="margin-bottom: 10px;">06:00</div> <div style="margin-bottom: 10px;">07:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">BIAS</div> <div style="margin-bottom: 10px;">XLV</div> <div style="margin-bottom: 10px;">+ZVV</div> </div>	SLEEP	SLEEP	SLEEP	SLEEP	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> A] OVERNIGHT PGSC CONFIG <input type="checkbox"/> COLOR PRINTER - ON <input type="checkbox"/> PAPER TRAY IN PRINTER FULL <input type="checkbox"/> FLOPPY DISK IN PROSHARE <input type="checkbox"/> OCA ROUTER - ON <input type="checkbox"/> PROSHARE - ON <input type="checkbox"/> KFX LAUNCHED ON PROSHARE & WINDECOM CHECK APPLICATIONS CLOSED <input type="checkbox"/> OUTLOOK </div> <div style="font-size: small;">EXTERNAL SURVEY PERFORMED OVERNIGHT</div>

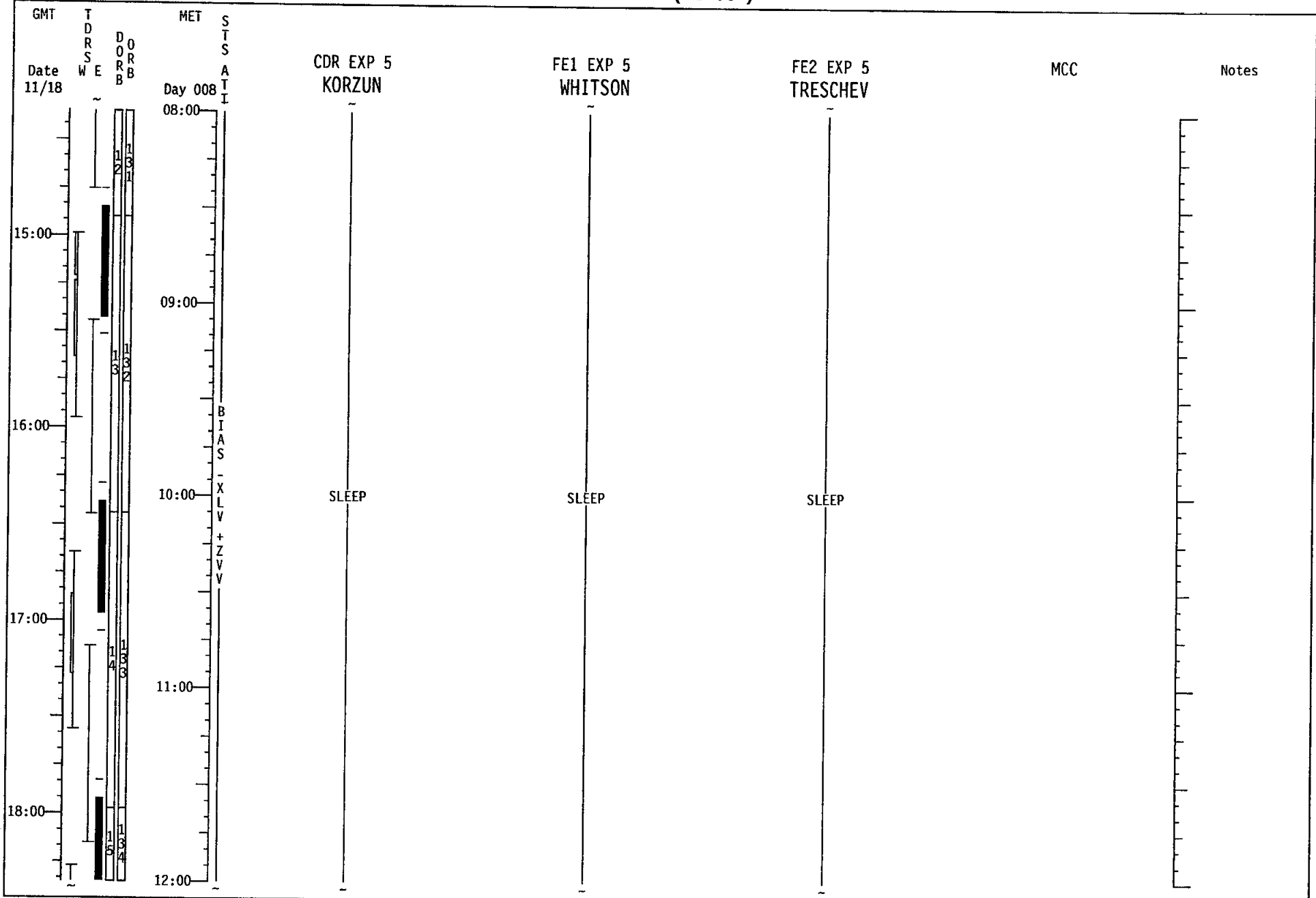
STS-113 (FD 09)



STS-113 (FD 09)



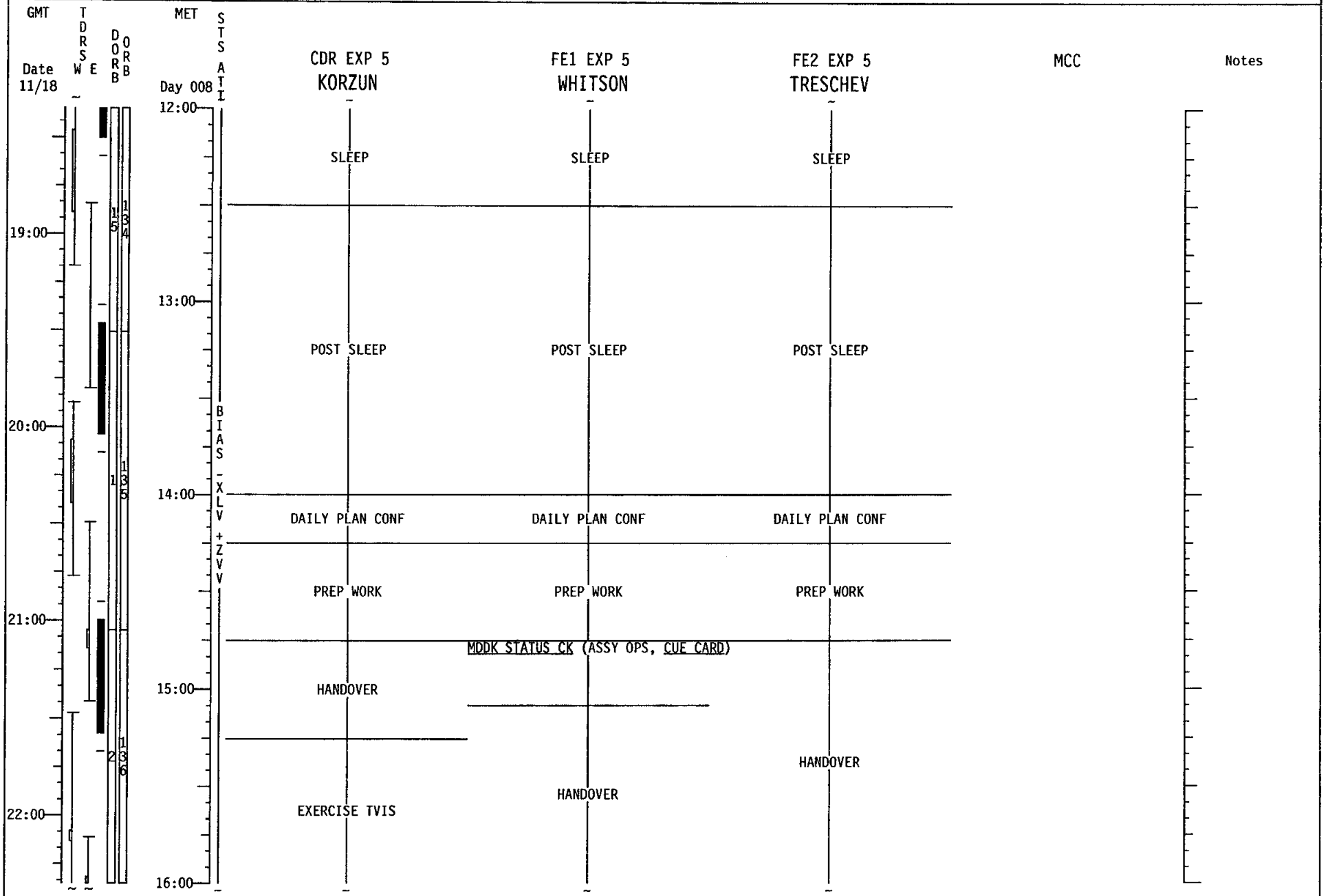
STS-113 (FD 09)



STS-113 (FD 10)

GMT Date 11/18	T D R S W E	D O R B	MET Day 008	STS A T I	CDR WETHERBEE	PLT LOCKHART	MS1 LOPEZ-ALEGRIA	MS2 HERRINGTON	Notes
				B I A S - X L V + Z V V	<p>12:00 <u>RECORD LOG (ORB OPS, DSO 490B)</u> <u>SALIVA COLLECTION (ORB OPS, DSO 493)</u></p>	<p>12:00 <u>RECORD LOG (ORB OPS, DSO 490B)</u> <u>SALIVA COLLECTION (ORB OPS, DSO 493)</u></p>	<p>12:00 <u>RECORD LOG (ORB OPS, DSO 490B)</u> <u>SALIVA COLLECTION (ORB OPS, DSO 493)</u></p>	<p>12:00 <u>RECORD LOG (ORB OPS, DSO 490B)</u> <u>SALIVA COLLECTION (ORB OPS, DSO 493)</u></p>	<p>EXTERNAL SURVEY PERFORMED OVERNIGHT</p>
						<p>FDO10 EZ ACTIVITIES <u>REBOOT PGSCs</u> <u>TEPC (STAU5 CK) (ORB OPS, CREW SYS)</u> <u>QCAC FILTER INSPECT</u></p>			
					<p>POST SLEEP ACTIVITY (ORB OPS, CREW SYS) ✓ SHUTTLE CONDENSATE CWC</p>	<p>POST SLEEP ACTIVITY (ORB OPS, CREW SYS)</p>	<p>POST SLEEP ACTIVITY (ORB OPS, CREW SYS) <u>GALLEY MORNING CONFIG (ORB OPS, ECLS)</u></p>	<p>POST SLEEP ACTIVITY (ORB OPS, CREW SYS)</p>	
					<p>EXERCISE</p>	<p>EXERCISE</p>	<p>DAILY MCC TRANSFER BRIEFING</p>	<p><u>FILTER CLEANING (IFM, SCHEDULED MAINTENANCE)</u></p>	<p>UPLINK TFL 161</p>
					<p>ILLUMINATOR OPS (OFF) (P/TV, CUE CARD)</p>				

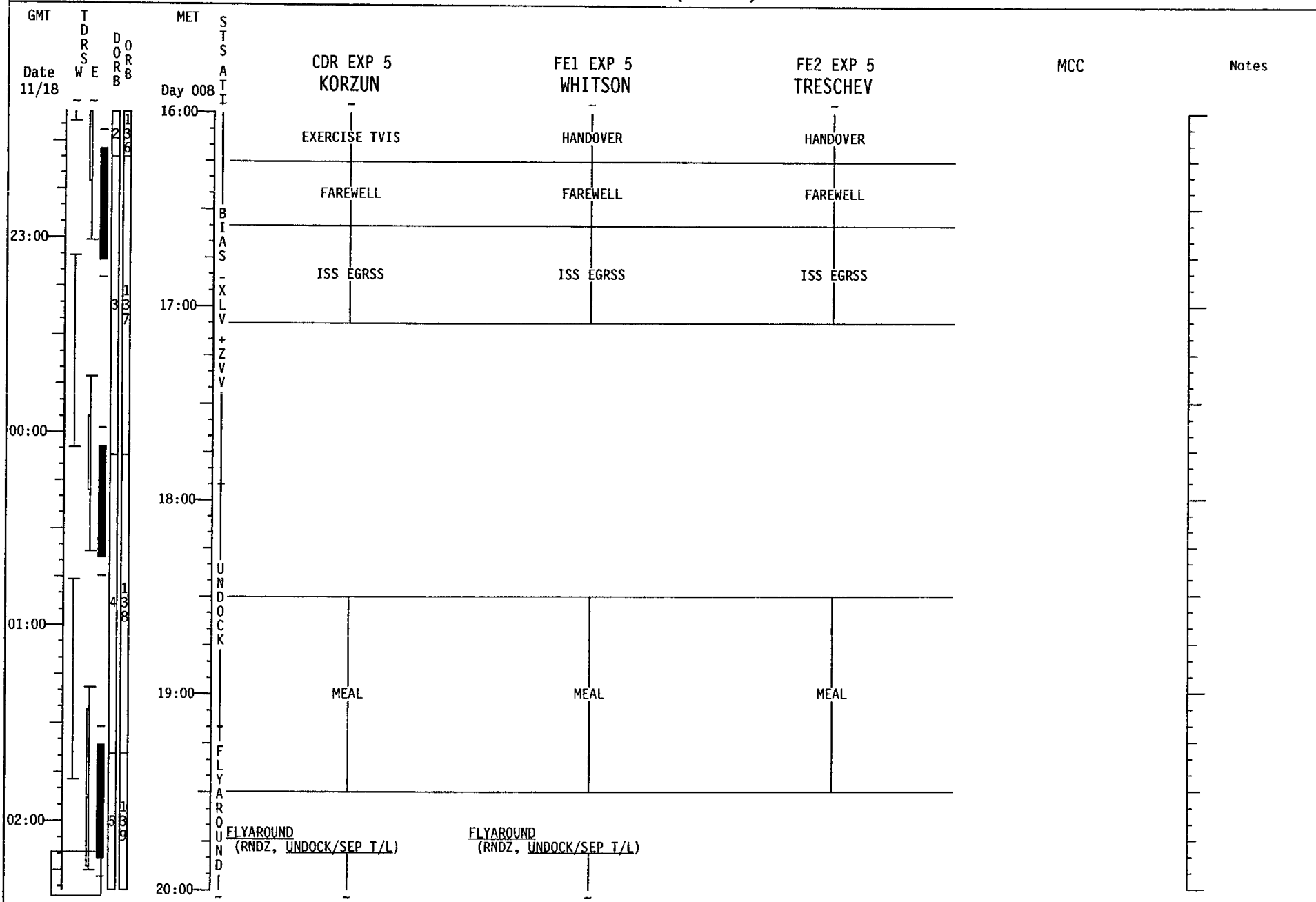
STS-113 (FD 10)



STS-113 (FD 10)

GMT Date 11/18	TDRS W E	DORB B	MET Day 008	STS A T I	CDR WETHERBEE	PLT LOCKHART	MS1 LOPEZ-ALEGRIA	MS2 HERRINGTON	Notes
			16:00			EXERCISE			
				B I A S	FAREWELL	FAREWELL	FAREWELL	FAREWELL	
			23:00		ISS EGRSS	ISS EGRSS	DUCT RMVL & HATCH CLOSE (JOINT OPS, EGRESS STATION)		
			17:00	X L V					
				+ Z V V		P/TV20 ISS DOCK/UNDOCK) (PHOTO/TV, SCENES) Setup	ODS VEST DPRS & HATCH LEAK CK (JOINT OPS, EGRESS STATION)	ODS VEST DPRS & HATCH LEAK CK (JOINT OPS, EGRESS STATION)	
			00:00						UPLINK TFL 184
				U N D O C K	H/O ATT CNTL CMGTA TO ORB (JNT OPS, MATED OPS) MNV R (TRK) -XLV +ZVV TG=2 BV=5 P=180 Y=0 OM=0 Init TRK A/AUTO/VERN	HARDLINE AUDIO CONFIG (JOINT OPS, COMM/DATA) Steps 1,3 & 4	P/TV19 C/L CAM INSTALL (PHOTO/TV, SCENES)	P/TV19 C/L CAM INSTALL (PHOTO/TV, SCENES)	
			18:00		P R I O R I T Y	P R I O R I T Y			
				S T E P S	(ORB PKT, PRIOR PWRDN) Steps 5,6,9,10,12, Triple G2 In Step 12, Recover IMU 3	(ORB PKT, PRIOR PWRDN) Steps 5,6,9,10,12, Triple G2 In Step 12, Recover IMU 3			
			01:00	C O N T R O L	D06 S TRK PWR -Z - ON O CRT GNC I/O RESET	UNDOCKING/SEPARATION (RNDZ, UNDOCK/SEP T/L)			
				F L Y A R O U N D	UNDOCKING/SEPARATION (RNDZ, UNDOCK/SEP T/L)	UNDOCKING/SEPARATION (RNDZ, UNDOCK/SEP T/L)			
			19:00				M E A L	M E A L	
				U N D O C K					UPLINK KU β 21° only + Box
			02:00						B1: -35<AZ<35 -35<EL<40
			20:00	U N D O C K	FLYAROUND (RNDZ, UNDOCK/SEP T/L)	FLYAROUND (RNDZ, UNDOCK/SEP T/L)	FLYAROUND (RNDZ, UNDOCK/SEP T/L)	FLYAROUND (RNDZ, UNDOCK/SEP T/L)	

STS-113 (FD 10)



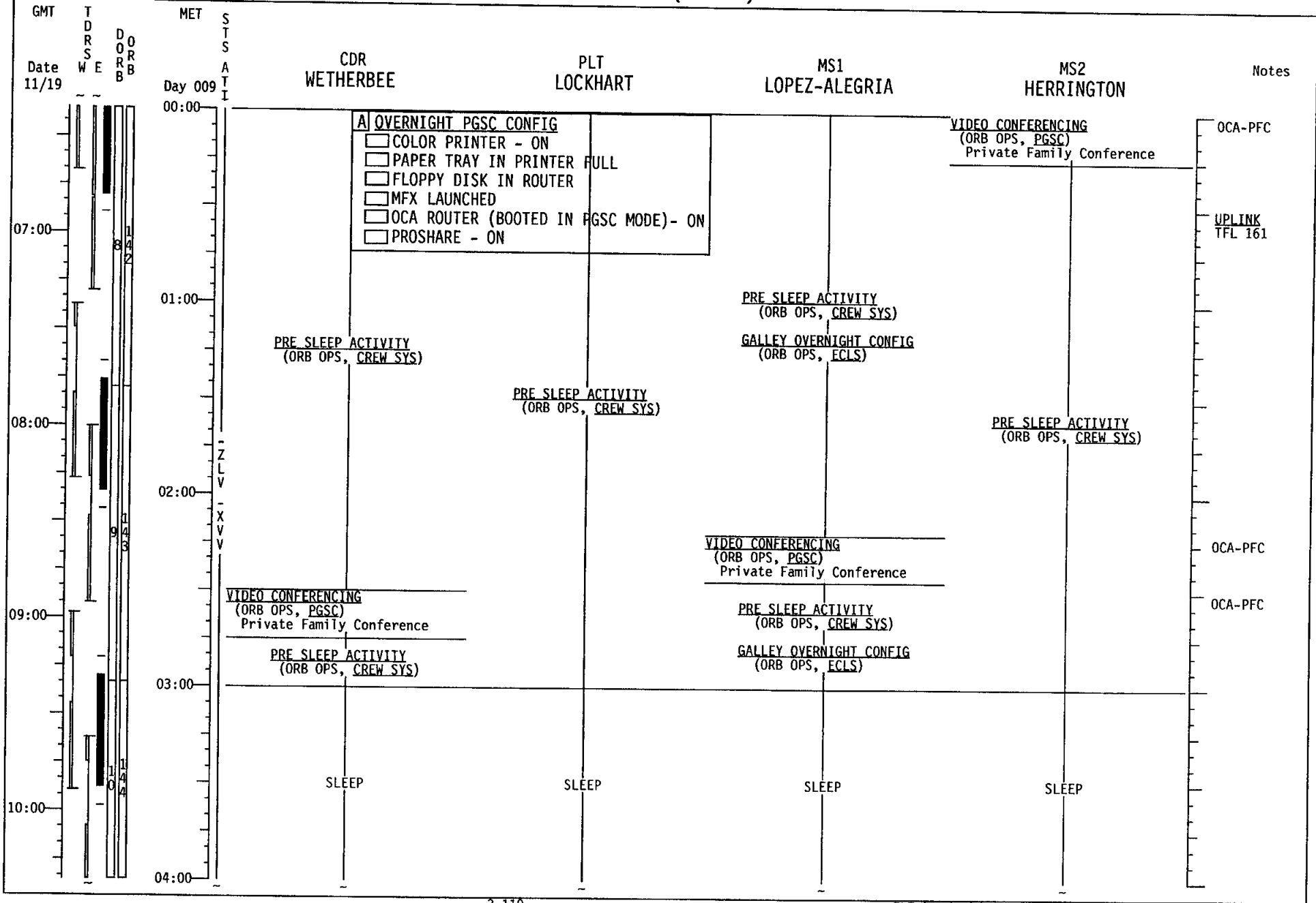
STS-113 (FD 10)

GMT Date 11/19	T D R S W E	D O R B	MET Day 008	S T A T I	CDR WETHERBEE	PLT LOCKHART	MS1 LOPEZ-ALEGRIA	MS2 HERRINGTON	Notes
				20:00	FLYAROUND (RNDZ, UNDOCK/SEP T/L)	FLYAROUND (RNDZ, UNDOCK/SEP T/L)	FLYAROUND (RNDZ, UNDOCK/SEP T/L)	FLYAROUND (RNDZ, UNDOCK/SEP T/L)	
				21:00	SEP BURN (RNDZ, UNDOCK/SEP T/L)	SEP BURN (RNDZ, UNDOCK/SEP T/L)	SEP BURN (RNDZ, UNDOCK/SEP T/L)	SEP BURN (RNDZ, UNDOCK/SEP T/L)	
					MNVR (TRK) BIAS +ZLV +YV TG=2 BV=5 P=270 Y=0 OM=230 Init TRK A6/AUTO/ALT		SHUTTLE CWC CONDENSATE COLLECTION (ORB OPS, ECLS), TEARDOWN		UPLINK KU B 21° + Mask
					SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Initiate Simo Supply/Waste Dump		PGSC NETWORK RCNEG Configure PGSCs		
				04:00	PRIORITY PWRDN GRP B (ORB PKT, PRIOR PWRDN) Steps 5,6,9,10 & 12, Single G2 IMU-3 STBY-ITEM 23 EXEC	PRIORITY PWRDN GRP B (ORB PKT, PRIOR PWRDN) Steps 5,6,9,10 & 12, Single G2 IMU-3 STBY-ITEM 23 EXEC		EXERCISE	OCA-PMC
				22:00	VIDEO CONFERENCING (ORB OPS, PGSC) Private Medical Conference	VIDEO CONFERENCING (ORB OPS, PGSC) Private Family Conference			OCA-PFC
				05:00	SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Terminate Simo Supply/Waste Dump			COMM STRING 1 C/O (PART A) (ORB OPS, COMM/INST)	
					MNVR (TRK) BIAS +YLV -XV MEPSI TG=2 BV=5 P=180 Y=60 OM=70 Init TRK B2/AUTO/ALT	MEPSI DEPLOY (ASSY OPS, PAYLOAD)		P/TV08 SETUP (MEPSI) (PHOTO/TV, SCENES)	
				23:00	MEPSI DEPLOY (ASSY OPS, PAYLOAD) < Deploy at 23:01				
				06:00	MNVR (TRK) -ZLV -XV TG=2 BV=3 P=90 Y=0 OM=0 Init TRK A6/AUTO/ALT	VTR SETUP (CUE CARD, IV/VIR) Downlink video	EXERCISE		
				00:00				OIU DEACTIVATION (ORB OPS, OIU PROC) (MCC WILL DEACT PSP) (Expect BCE BYP PSP msg)	
								SSOR DEACTIVATION (JOINT OPS COMM DATA)	

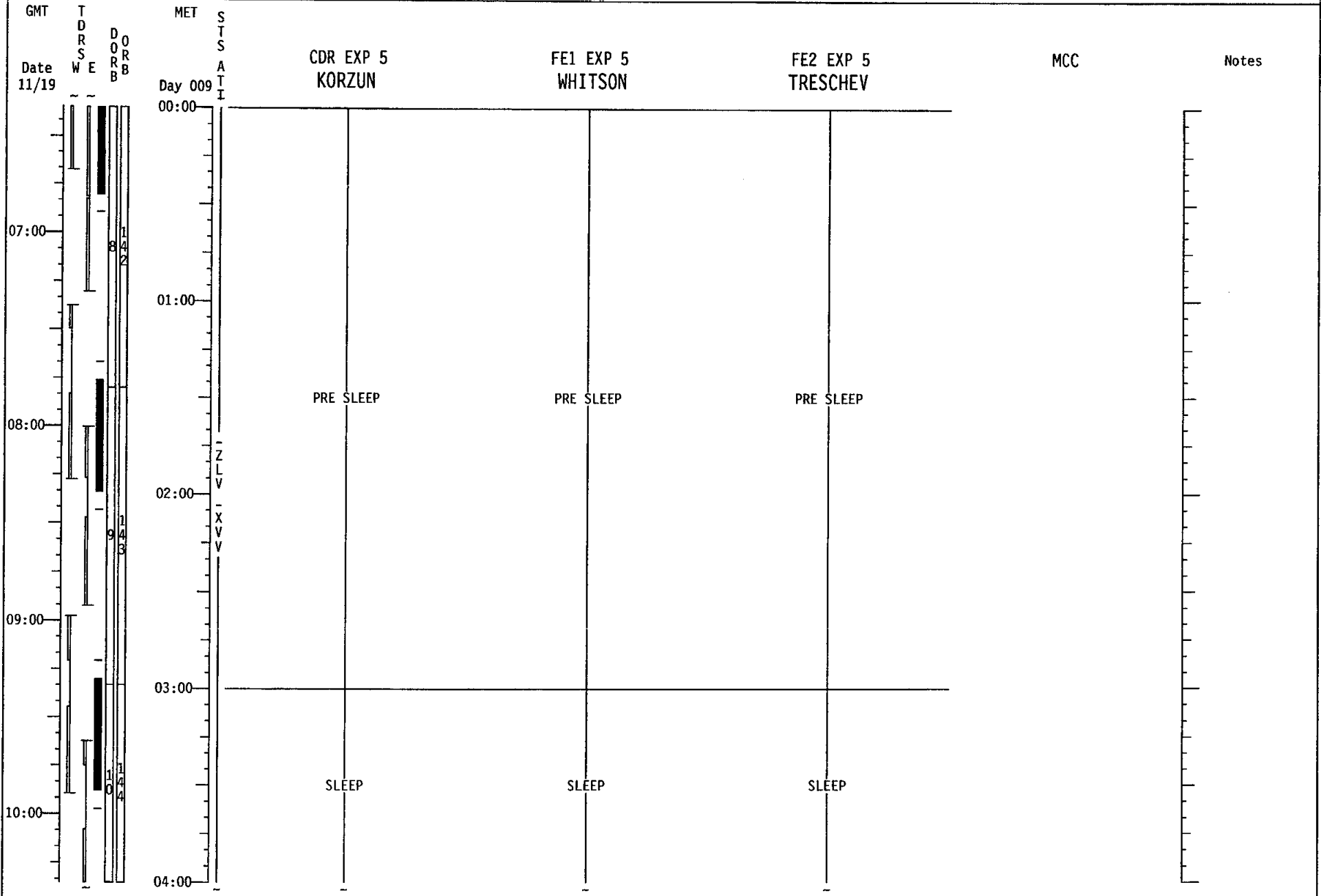
STS-113 (FD 10)

GMT Date 11/19	TDRS W E	DORR B	MET Day 008	STS A T T	CDR EXP 5 KORZUN	FE1 EXP 5 WHITSON	FE2 EXP 5 TRESCHEV	MCC	Notes
			20:00		FLYAROUND (RNDZ, UNDOCK/SEP T/L)	FLYAROUND (RNDZ, UNDOCK/SEP T/L)			
							EXERCISE		
03:00				SEP		VIDEO CONFERENCING (ORB OPS, PGSC) Private Family Conference			OCA-PFC
			21:00		EXERCISE				
04:00				ZLV			VIDEO CONFERENCING (ORB OPS, PGSC) Private Family Conference		OCA-PFC
			22:00	YVV					
05:00				MEPSI		EXERCISE			
			23:00	ZLV	VIDEO CONFERENCING (ORB OPS, PGSC) Private Family Conference	MDK STATUS CK (ASSY OPS, CUE CARD)			OCA-PFC
06:00				XVV					
			00:00						

STS-113 (FD 10)



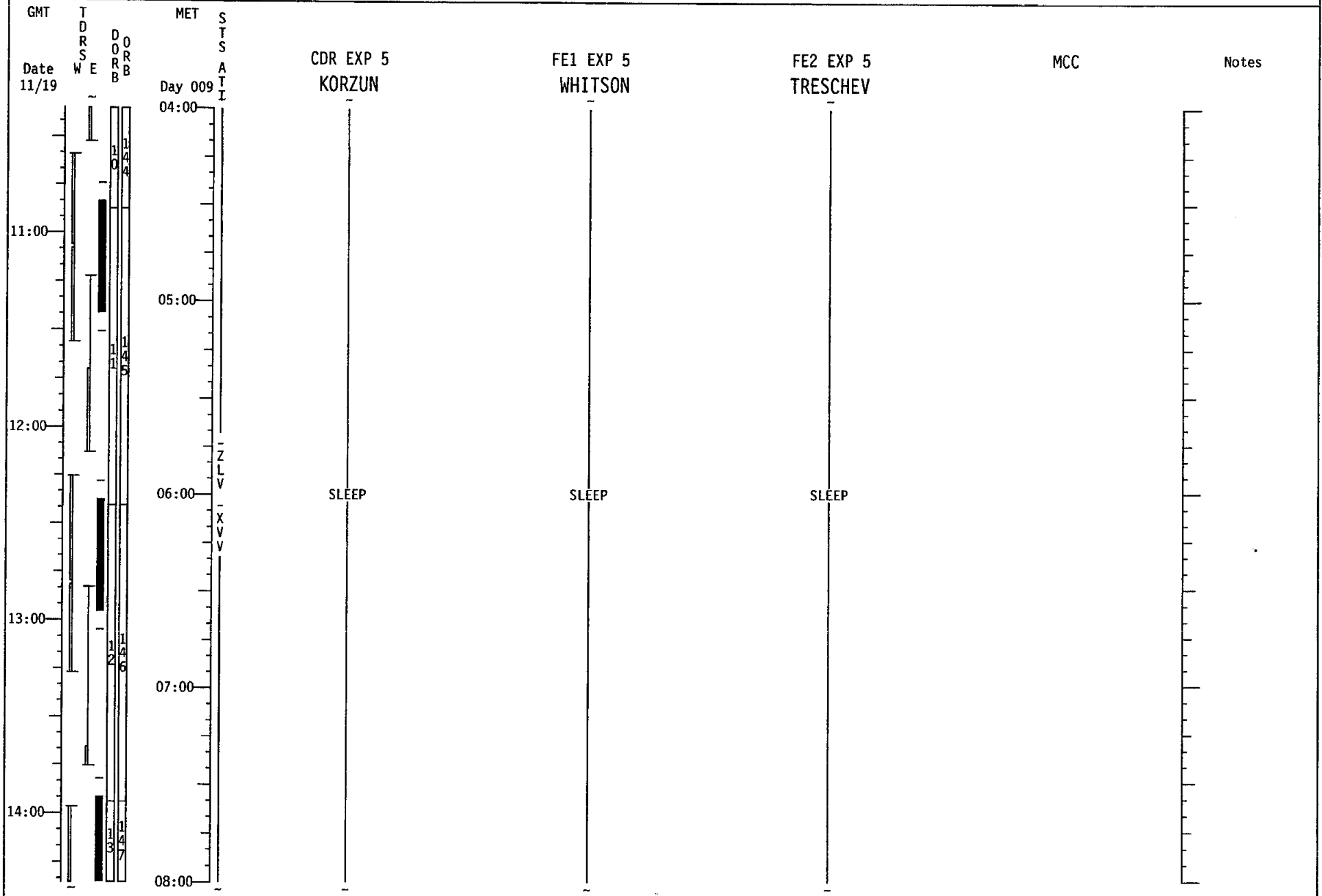
STS-113 (FD 10)



STS-113 (FD 10)

GMT Date 11/19	T D R S W E	D O R R B B	MET Day 009	S T S A T I	CDR WETHERBEE	PLT LOCKHART	MS1 LOPEZ-ALEGRIA	MS2 HERRINGTON	Notes
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">11:00</div> <div style="margin-bottom: 10px;">12:00</div> <div style="margin-bottom: 10px;">13:00</div> <div style="margin-bottom: 10px;">14:00</div> <div style="margin-bottom: 10px;">08:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">04:00</div> <div style="margin-bottom: 10px;">05:00</div> <div style="margin-bottom: 10px;">06:00</div> <div style="margin-bottom: 10px;">07:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">04:00</div> <div style="margin-bottom: 10px;">05:00</div> <div style="margin-bottom: 10px;">06:00</div> <div style="margin-bottom: 10px;">07:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">04:00</div> <div style="margin-bottom: 10px;">05:00</div> <div style="margin-bottom: 10px;">06:00</div> <div style="margin-bottom: 10px;">07:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">04:00</div> <div style="margin-bottom: 10px;">05:00</div> <div style="margin-bottom: 10px;">06:00</div> <div style="margin-bottom: 10px;">07:00</div> </div>	<p>SLEEP</p>	<p>SLEEP</p>	<p>SLEEP</p>	<p>SLEEP</p>	

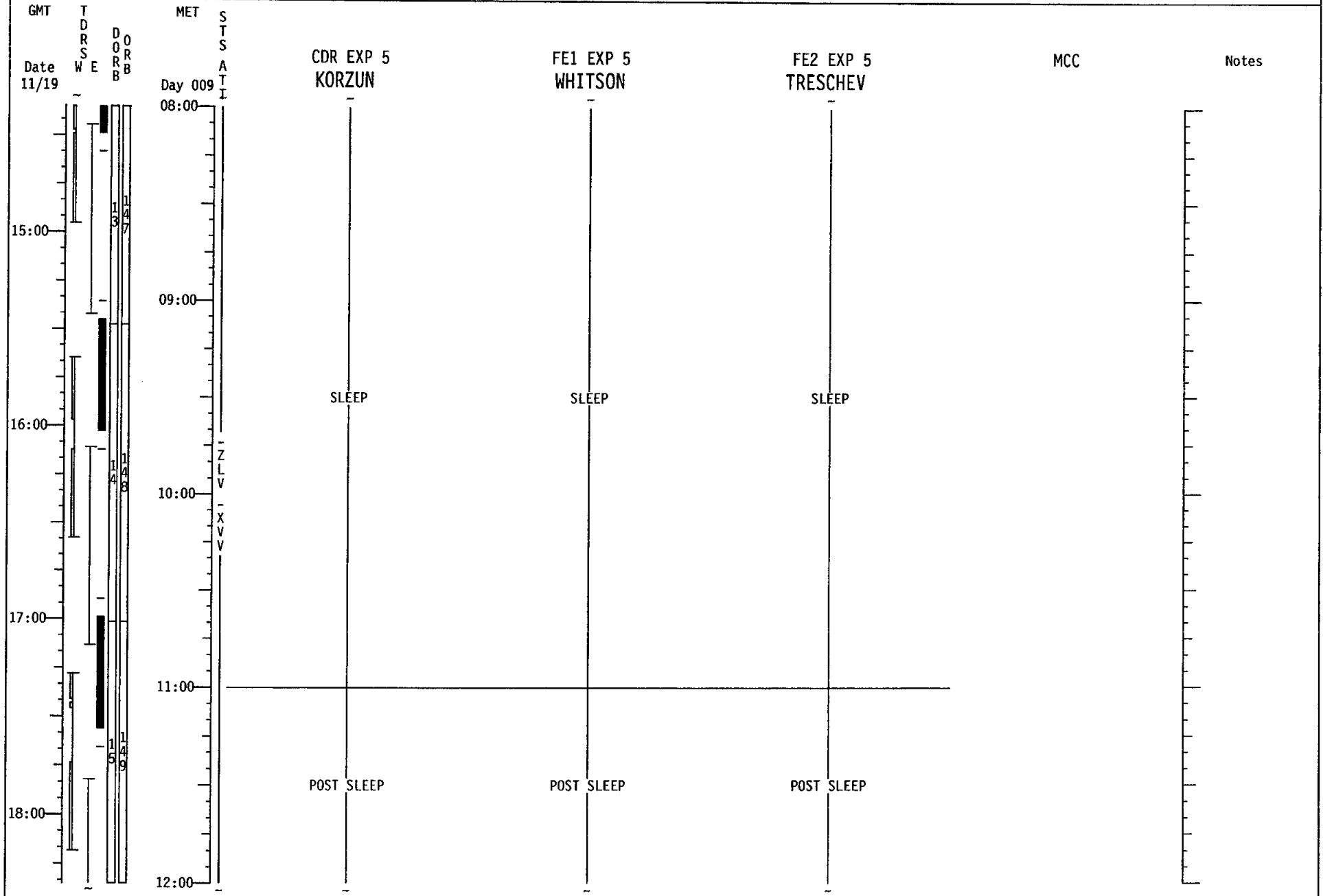
STS-113 (FD 10)



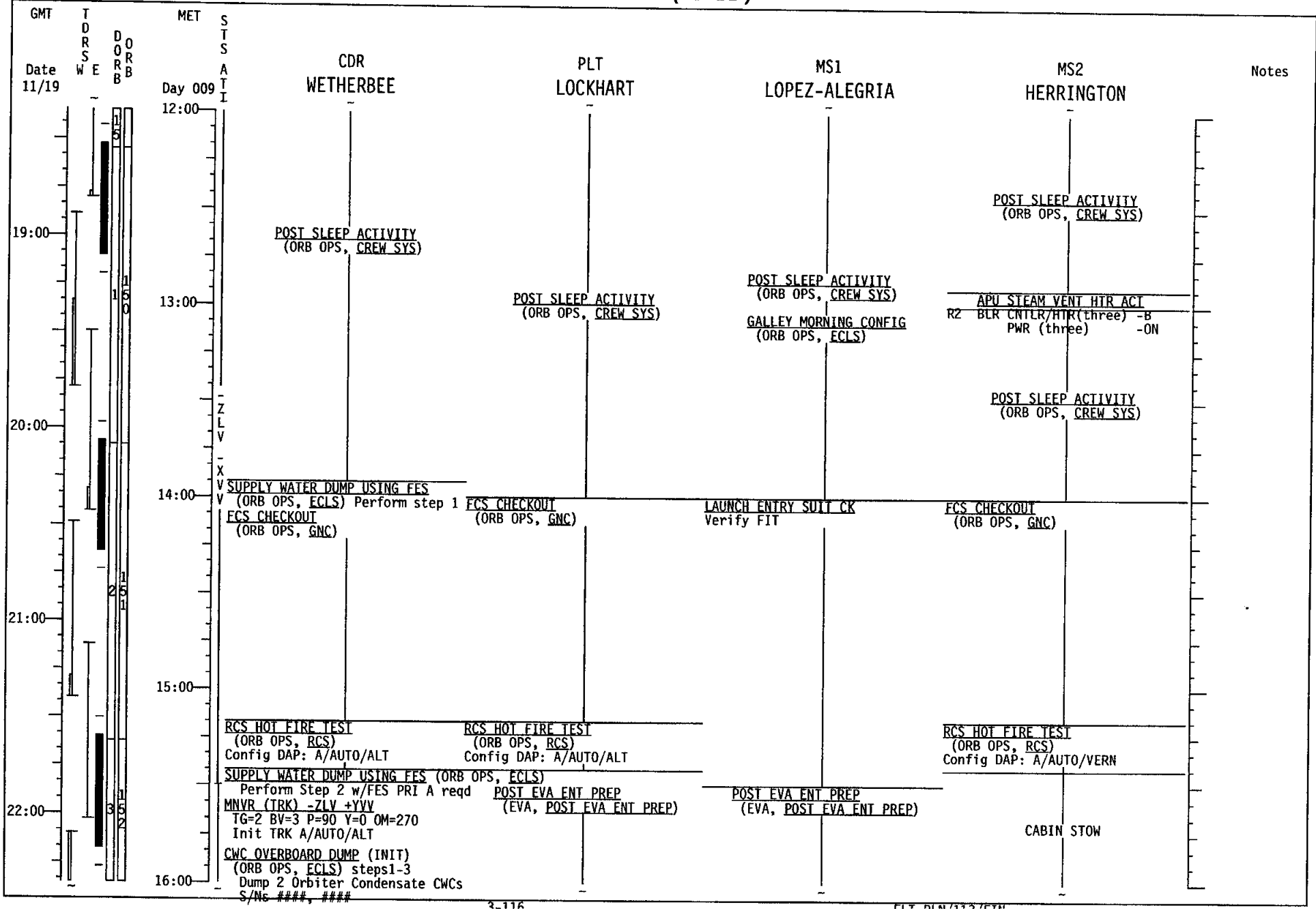
STS-113 (FD 10)

GMT Date 11/19	T D R S W E	D O R B	MET Day 009	S T S A T T I	CDR WETHERBEE	PLT LOCKHART	MS1 LOPEZ-ALEGRIA	MS2 HERRINGTON	Notes
			08:00						
					SLEEP	SLEEP	SLEEP	SLEEP	
			09:00						
				Z L V					
			10:00	X V V					
			11:00		RECORD LOG (ORB OPS, DSO 490B) SALIVA COLLECTION (ORB OPS, DSO 493) POST SLEEP ACTIVITY (ORB OPS, CREW SYS)	RECORD LOG (ORB OPS, DSO 490B) SALIVA COLLECTION (ORB OPS, DSO 493)	RECORD LOG (ORB OPS, DSO 490B) SALIVA COLLECTION (ORB OPS, DSO 493)	RECORD LOG (ORB OPS, DSO 490B) SALIVA COLLECTION (ORB OPS, DSO 493)	
						POST SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST SLEEP ACTIVITY (ORB OPS, CREW SYS)	
			12:00			POST SLEEP ACTIVITY (ORB OPS, CREW SYS)	GALLEY MORNING CONFIG (ORB OPS, ECLS)	POST SLEEP ACTIVITY (ORB OPS, CREW SYS)	

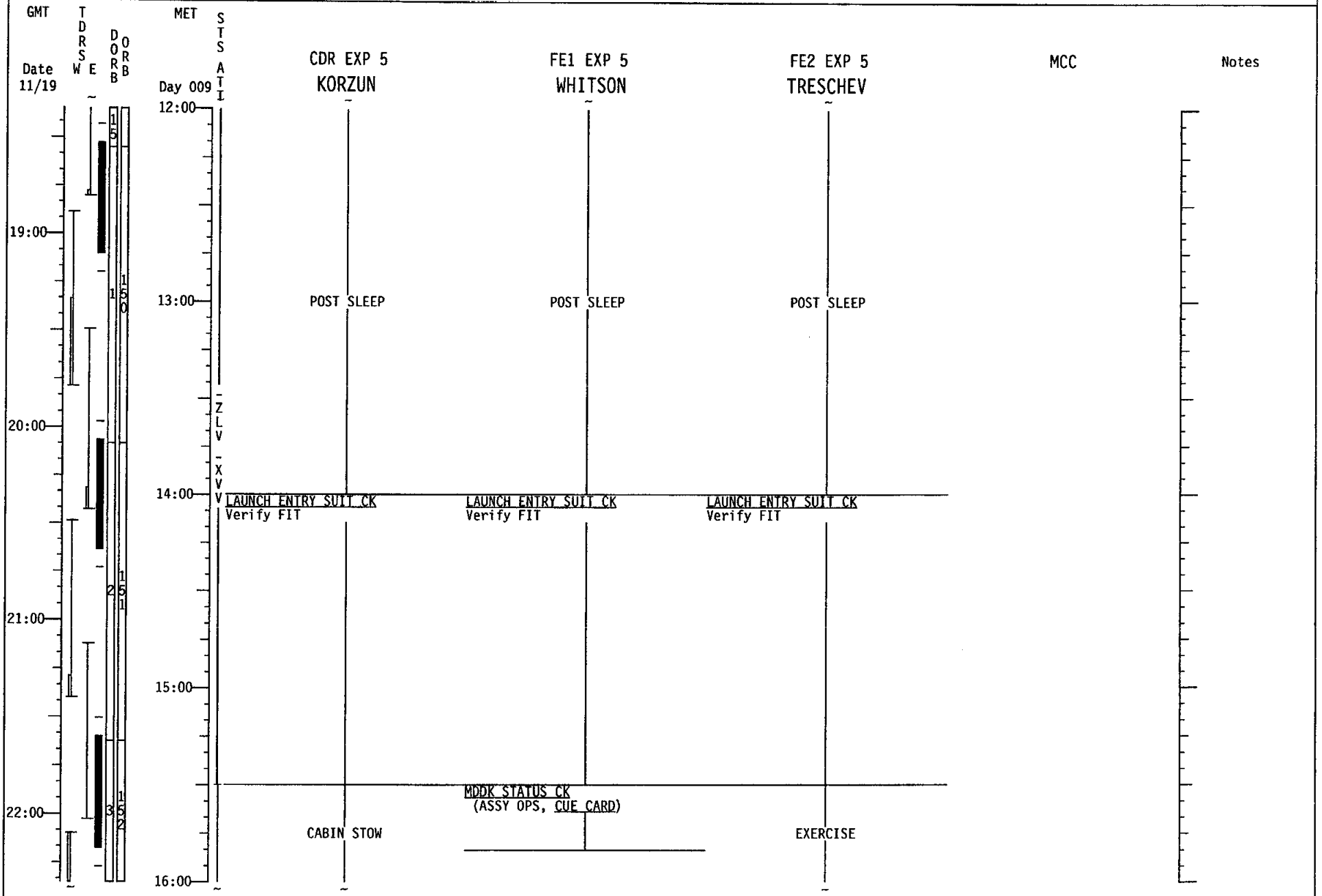
STS-113 (FD 10)



STS-113 (FD 11)



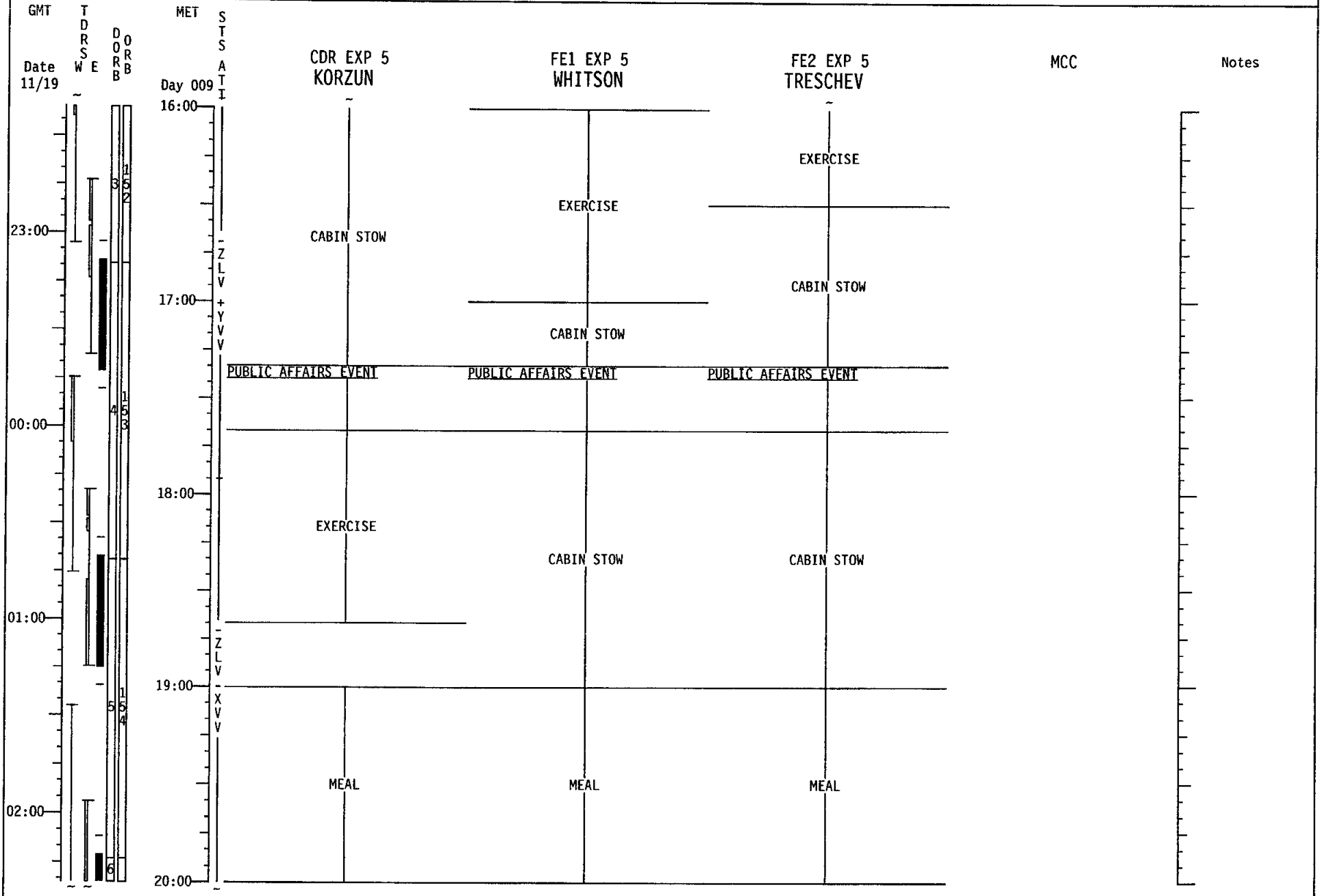
STS-113 (FD 11)



STS-113 (FD 11)

GMT Date 11/19	TDRS W E	DORRB B	MET Day 009	STS A T I	CDR WETHERBEE	PLT LOCKHART	MS1 LOPEZ-ALEGRIA	MS2 HERRINGTON	Notes
				16:00		POST EVA ENT PREP (EVA, POST EVA ENT PREP)	POST EVA ENT PREP (EVA, POST EVA ENT PREP)		
					CABIN STOW	CABIN STOW	CABIN STOW	CABIN STOW	
				17:00			P/TV02 IN-CABIN ACTIVITIES (SETUP) (PHOTO/TV, SCENES) PAO		
					PUBLIC AFFAIRS EVENT KU AVAIL TDRS 18:26 - 18:53 Ref MSG ###	PUBLIC AFFAIRS EVENT	PUBLIC AFFAIRS EVENT	PUBLIC AFFAIRS EVENT	
					CWC OVERBOARD DUMP (TERM) (ORB OPS, ECLS) steps 4-6		P/TV05 SETUP (ENTRY) (PHOTO/TV, SCENES)		
				18:00	MNVR (TRK) -ZLV -XVY TG=2 BV=3 P=90 Y=0 OM=0 Init TRK A/AUTO/ALT				
					L17 Check MCIU filter screen	CABIN STOW	P/TV06 DEACT (SSV) (PHOTO/TV, SCENES)	CABIN STOW	
					RMS POWERDOWN (STOW MPMS) (PDRS OPS, RMS PWRDN) Steps 3,5,& 6			COMM STRING 1 C/O (PART B) (ORB OPS, COMM/INSI)	
				19:00				LANDING-1 COMM C/O (ORB OPS, COMM/INSI)	
					MEAL	MEAL	MEAL	MEAL	
				20:00					

STS-113 (FD 11)



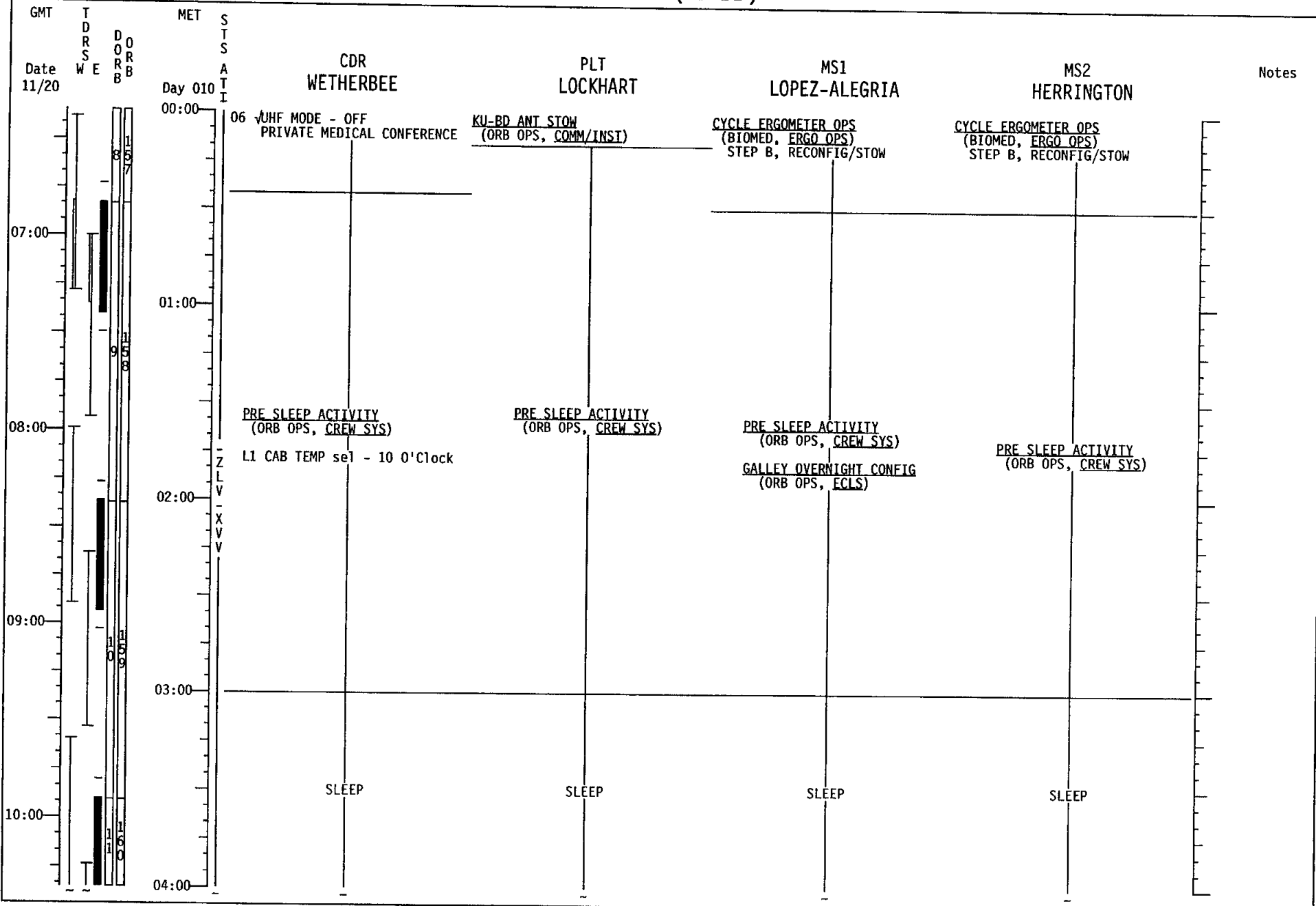
STS-113 (FD 11)

GMT Date 11/20	T D R S W E	D O R B	D O R B	MET Day 009	S T S A T I	CDR WETHERBEE	PLT LOCKHART	MS1 LOPEZ-ALEGRIA	MS2 HERRINGTON	Notes
				20:00		D/O PREP BRIEF	D/O PREP BRIEF	D/O PREP BRIEF	D/O PREP BRIEF	
				03:00		RECUUMBENT SEAT KIT ATTACH (ORB OPS, RSK)			LANDING-1 COMM C/O (ORB OPS, COMM/INSI)	
				21:00		OFF DUTY		CABIN STOW		
				04:00			OFF DUTY			
				22:00	Z L V X V V	EXERCISE		OFF DUTY		
				05:00			EXERCISE		OFF DUTY	
				23:00		OFF DUTY		EXERCISE		
				06:00			OFF DUTY	OFF DUTY	EXERCISE	
				00:00						

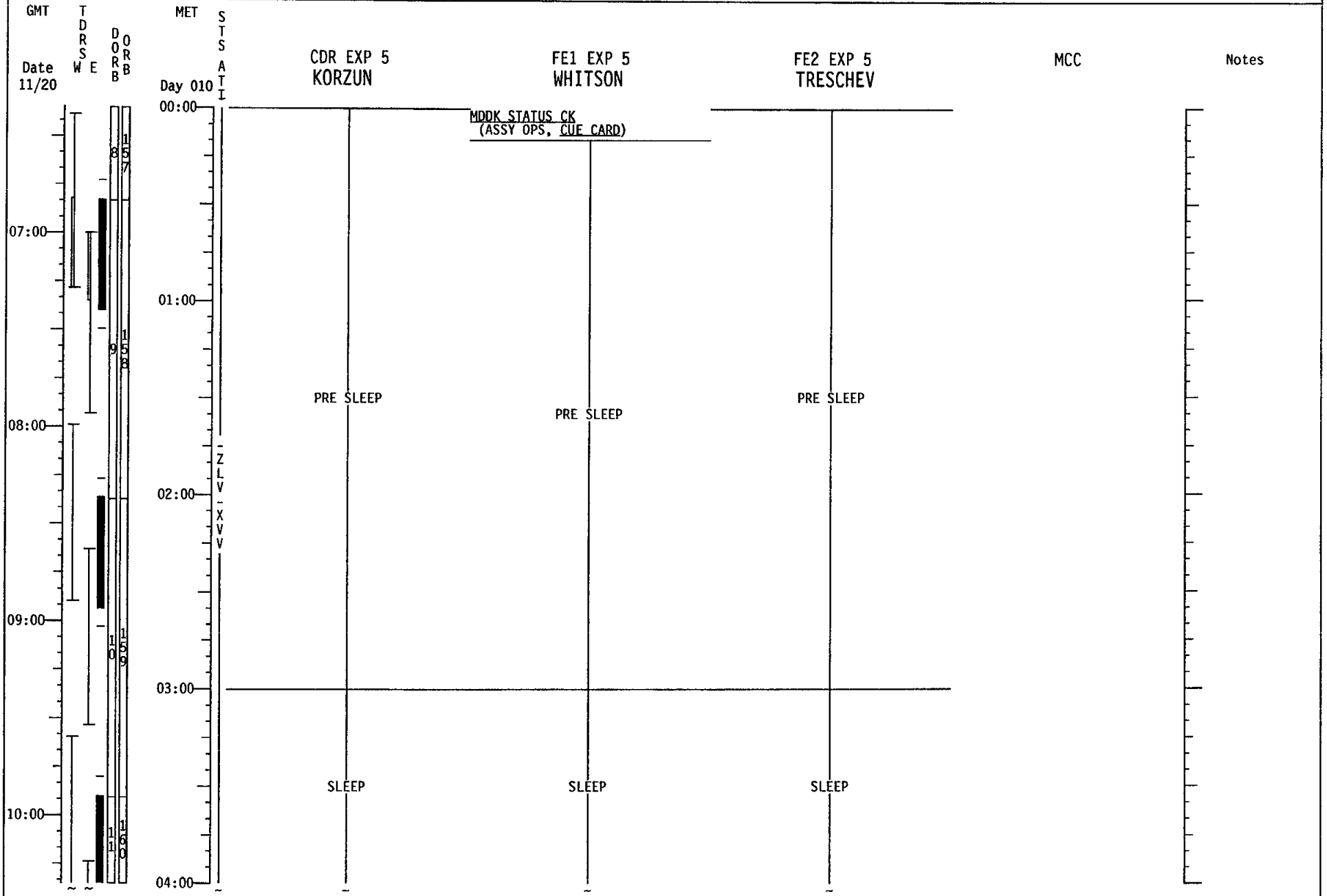
STS-113 (FD 11)

GMT	T D R S W E D O R B	MET Day 009	S T S A T I	CDR EXP 5 KORZUN	FE1 EXP 5 WHITSON	FE2 EXP 5 TRESCHEV	MCC	Notes
Date 11/20	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">655</div> <div style="margin-bottom: 10px;">656</div> <div style="margin-bottom: 10px;">657</div> <div style="margin-bottom: 10px;">658</div> <div style="margin-bottom: 10px;">659</div> <div style="margin-bottom: 10px;">660</div> <div style="margin-bottom: 10px;">661</div> <div style="margin-bottom: 10px;">662</div> <div style="margin-bottom: 10px;">663</div> <div style="margin-bottom: 10px;">664</div> <div style="margin-bottom: 10px;">665</div> <div style="margin-bottom: 10px;">666</div> <div style="margin-bottom: 10px;">667</div> <div style="margin-bottom: 10px;">668</div> <div style="margin-bottom: 10px;">669</div> <div style="margin-bottom: 10px;">670</div> <div style="margin-bottom: 10px;">671</div> <div style="margin-bottom: 10px;">672</div> <div style="margin-bottom: 10px;">673</div> <div style="margin-bottom: 10px;">674</div> <div style="margin-bottom: 10px;">675</div> <div style="margin-bottom: 10px;">676</div> <div style="margin-bottom: 10px;">677</div> <div style="margin-bottom: 10px;">678</div> <div style="margin-bottom: 10px;">679</div> <div style="margin-bottom: 10px;">680</div> <div style="margin-bottom: 10px;">681</div> <div style="margin-bottom: 10px;">682</div> <div style="margin-bottom: 10px;">683</div> <div style="margin-bottom: 10px;">684</div> <div style="margin-bottom: 10px;">685</div> <div style="margin-bottom: 10px;">686</div> <div style="margin-bottom: 10px;">687</div> <div style="margin-bottom: 10px;">688</div> <div style="margin-bottom: 10px;">689</div> <div style="margin-bottom: 10px;">690</div> <div style="margin-bottom: 10px;">691</div> <div style="margin-bottom: 10px;">692</div> <div style="margin-bottom: 10px;">693</div> <div style="margin-bottom: 10px;">694</div> <div style="margin-bottom: 10px;">695</div> <div style="margin-bottom: 10px;">696</div> <div style="margin-bottom: 10px;">697</div> <div style="margin-bottom: 10px;">698</div> <div style="margin-bottom: 10px;">699</div> <div style="margin-bottom: 10px;">700</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">20:00</div> <div style="margin-bottom: 10px;">03:00</div> <div style="margin-bottom: 10px;">04:00</div> <div style="margin-bottom: 10px;">05:00</div> <div style="margin-bottom: 10px;">06:00</div> <div style="margin-bottom: 10px;">00:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">20:00</div> <div style="margin-bottom: 10px;">21:00</div> <div style="margin-bottom: 10px;">22:00</div> <div style="margin-bottom: 10px;">23:00</div> <div style="margin-bottom: 10px;">00:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">D/O PREP BRIEF</div> <div style="margin-bottom: 10px;">RECUMBENT SEAT KIT ATTACH (ORB OPS, RSK)</div> <div style="margin-bottom: 10px;">OFF DUTY</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">D/O PREP BRIEF</div> <div style="margin-bottom: 10px;">RECUMBENT SEAT KIT ATTACH (ORB OPS, RSK)</div> <div style="margin-bottom: 10px;">OFF DUTY</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">D/O PREP BRIEF</div> <div style="margin-bottom: 10px;">RECUMBENT SEAT KIT ATTACH (ORB OPS, RSK)</div> <div style="margin-bottom: 10px;">OFF DUTY</div> </div>		

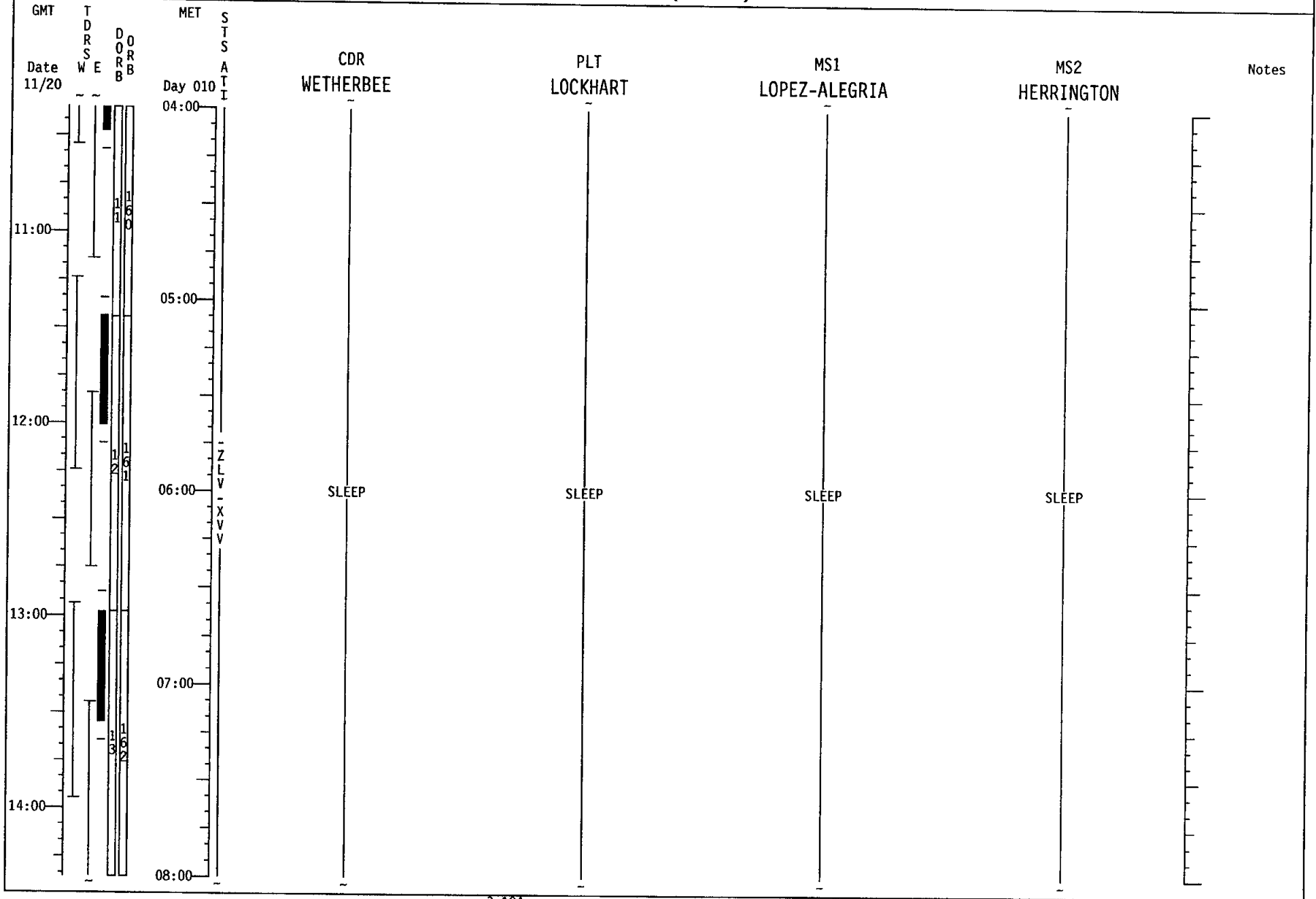
STS-113 (FD 11)



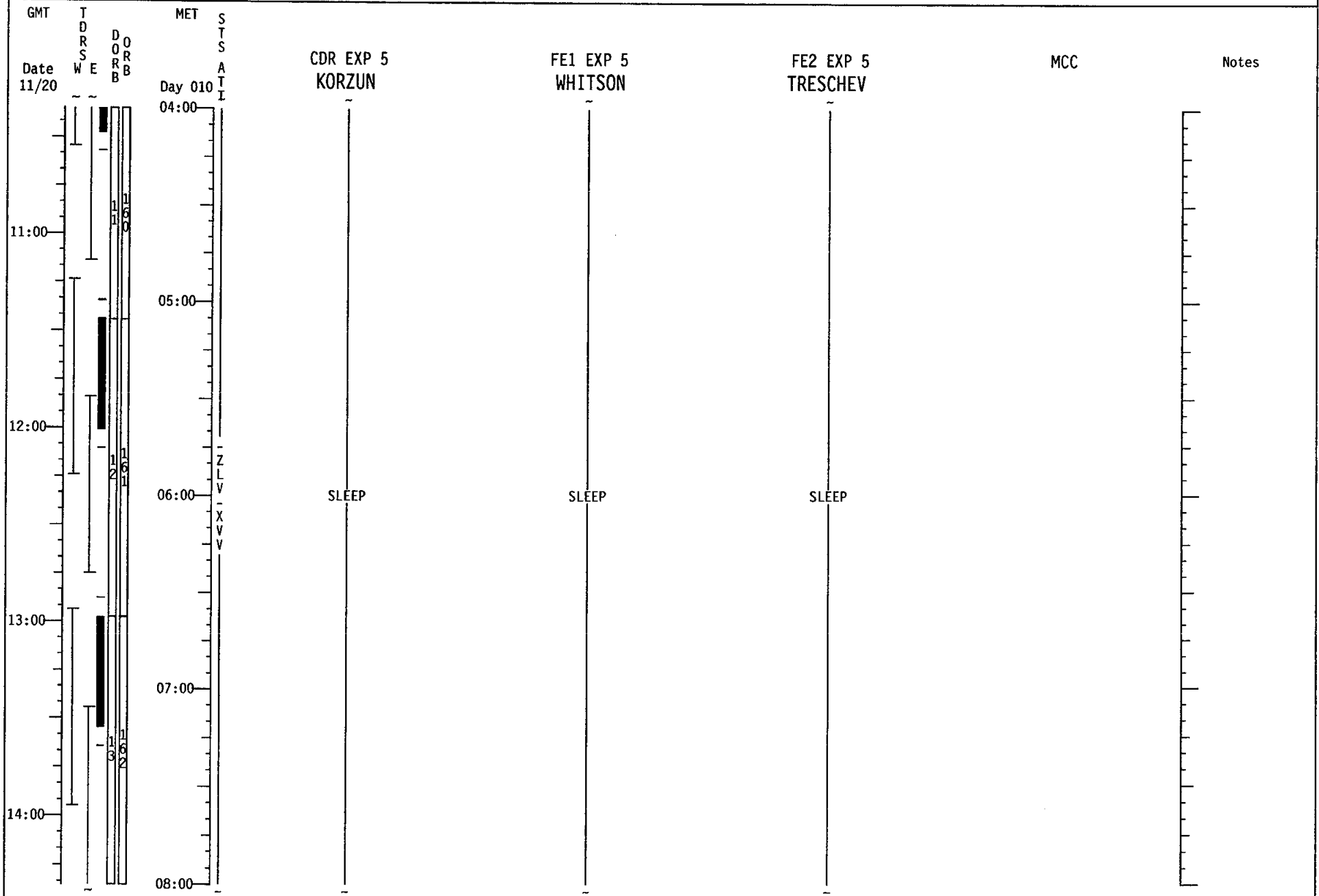
STS-113 (FD 11)



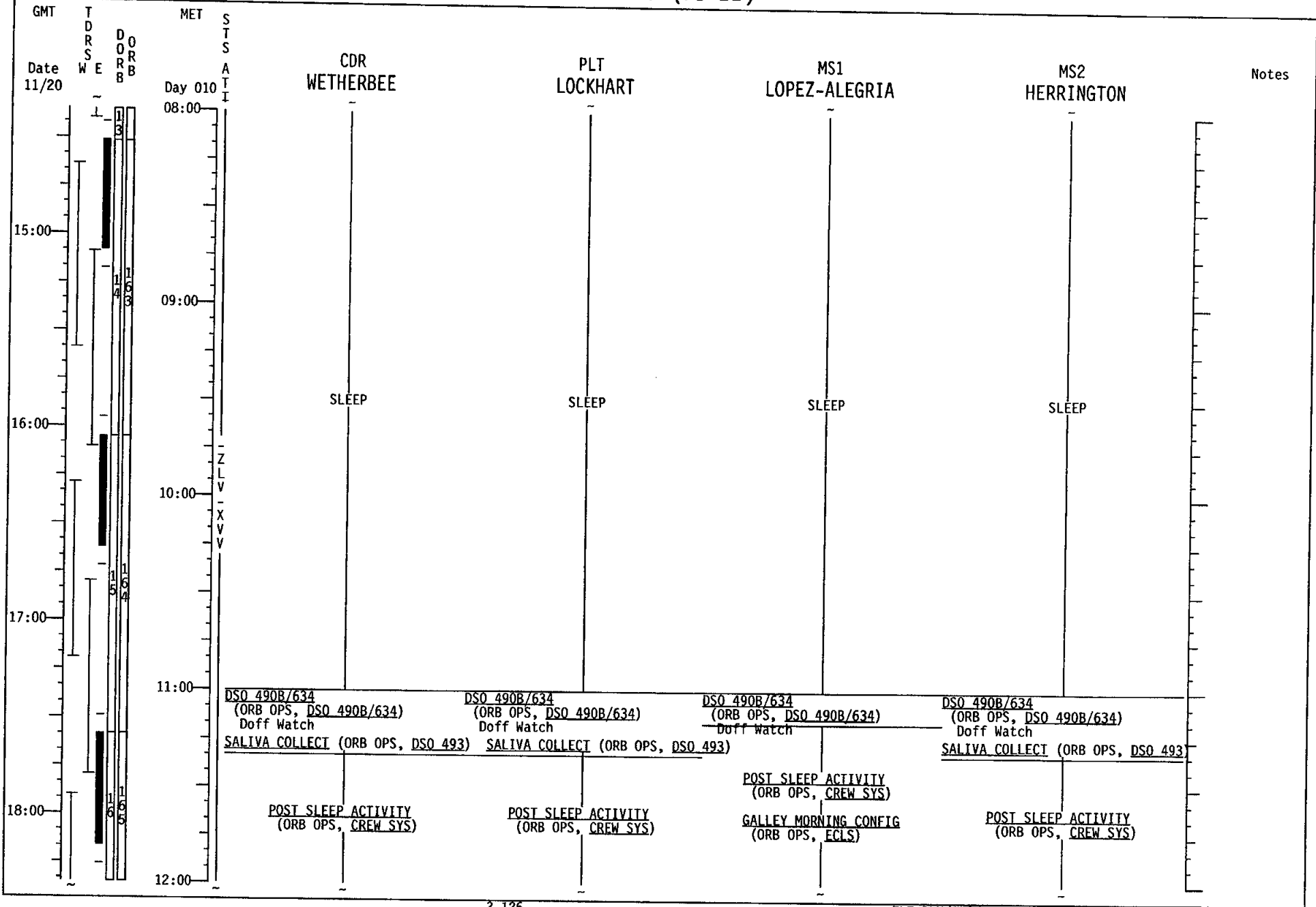
STS-113 (FD 11)



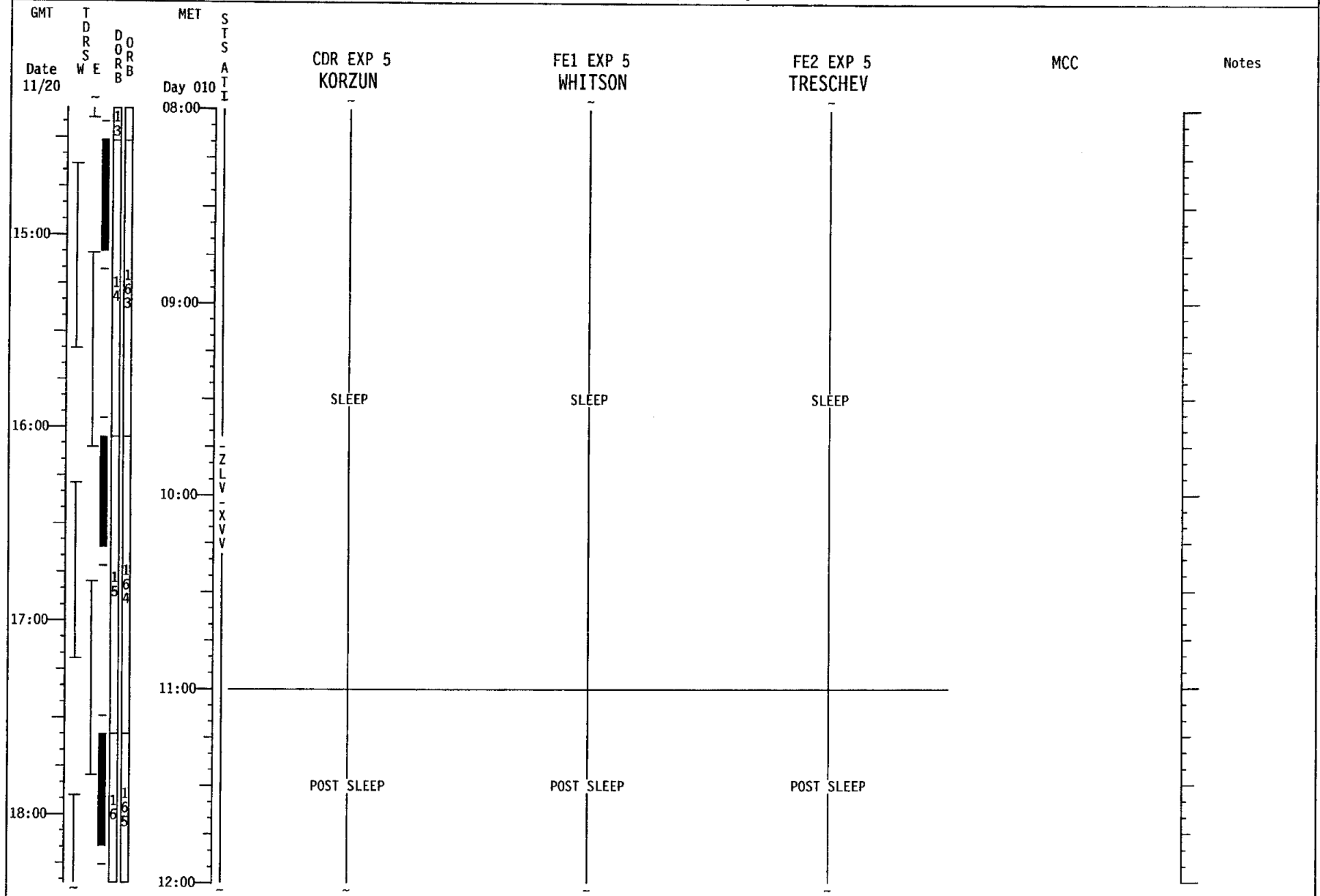
STS-113 (FD 11)



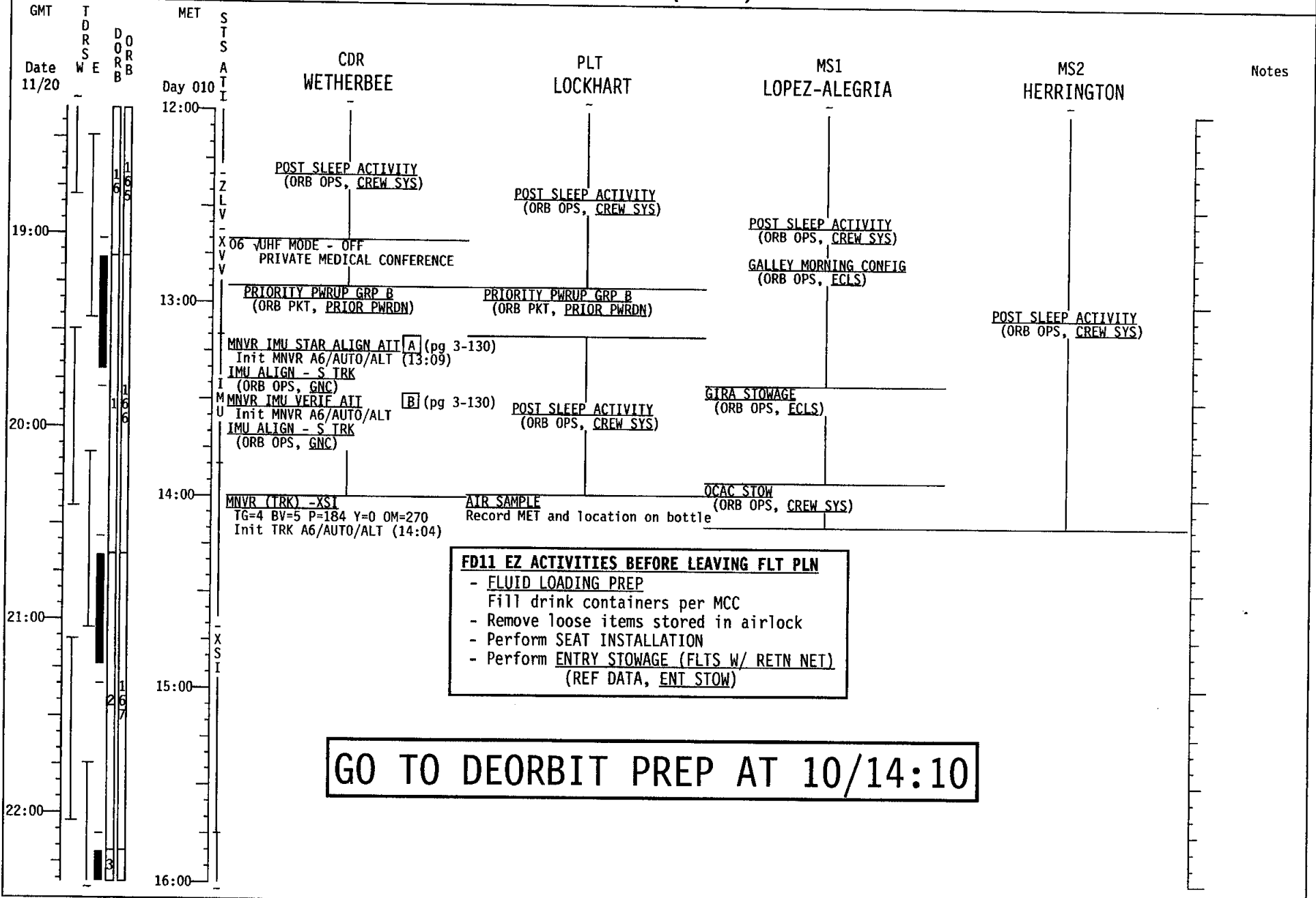
STS-113 (FD 11)



STS-113 (FD 11)

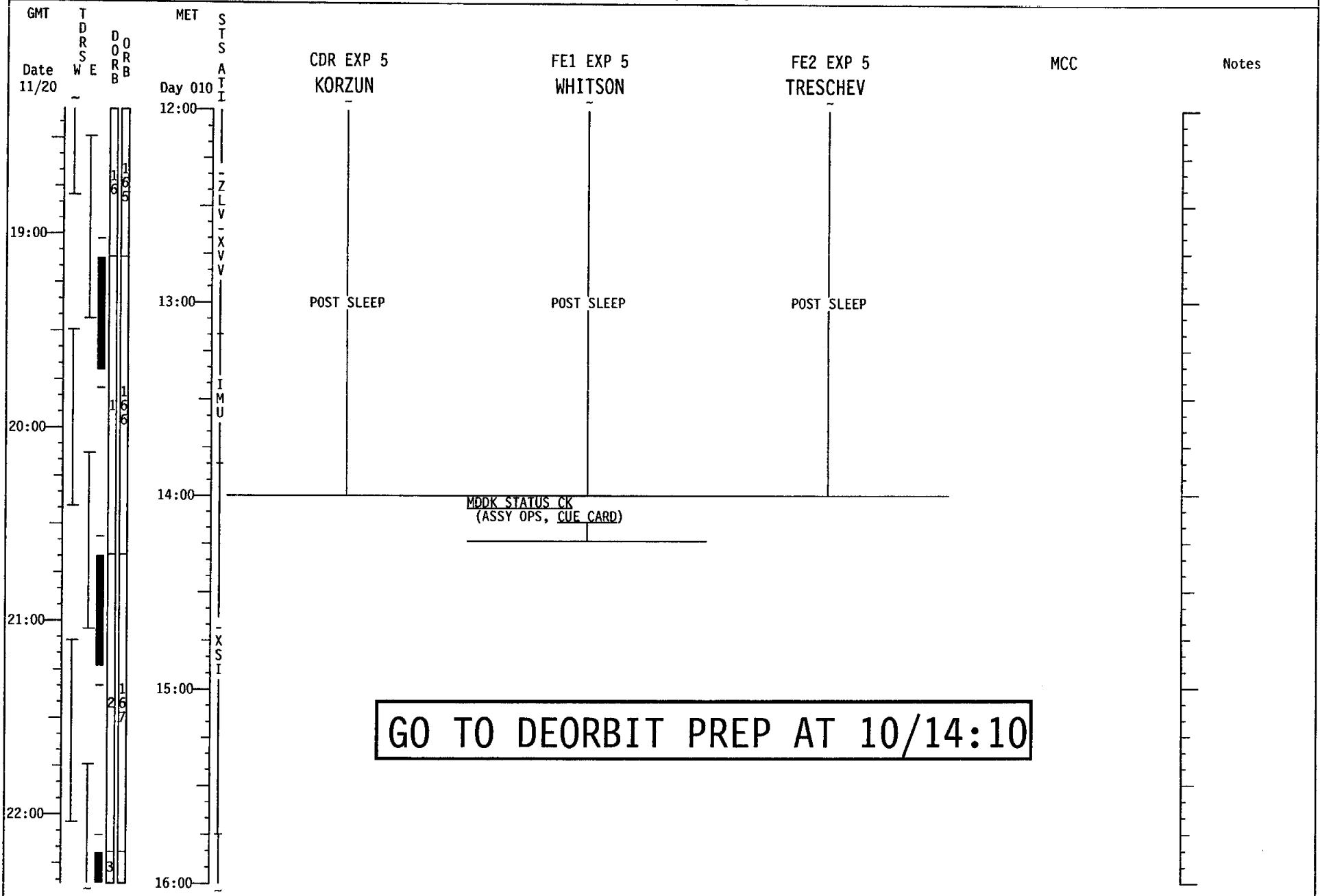


STS-113 (FD 12)



GO TO DEORBIT PREP AT 10/14:10

STS-113 (FD 12)



A	IMU STAR ALIGN
ID: -Y: 50, AVIOR MET (10/13:23 TO 10/14:08)	
-Z: 41, DENEbola MET (10/13:04 TO 10/13:54)	
ANG DIFF: 85.0	
DUAL S TRKR ALIGNMENT	2nd ATTITUDE (SINGLE S TRKR)
R 180 R -Z: 50 -Y: 41	
P 288 P 66 284	
Y 76 Y 318 268	
	Y 65 63
REQD ID:	
-Y: ____, -Z: ____, ANG ERR ____, ____	
ANG: 1 2 3	
ΔX () ____, ____ () ____, ____ () ____, ____	
ΔY () ____, ____ () ____, ____ () ____, ____	
ΔZ () ____, ____ () ____, ____ () ____, ____	
EXECUTION TIME: __/__:__ MET	

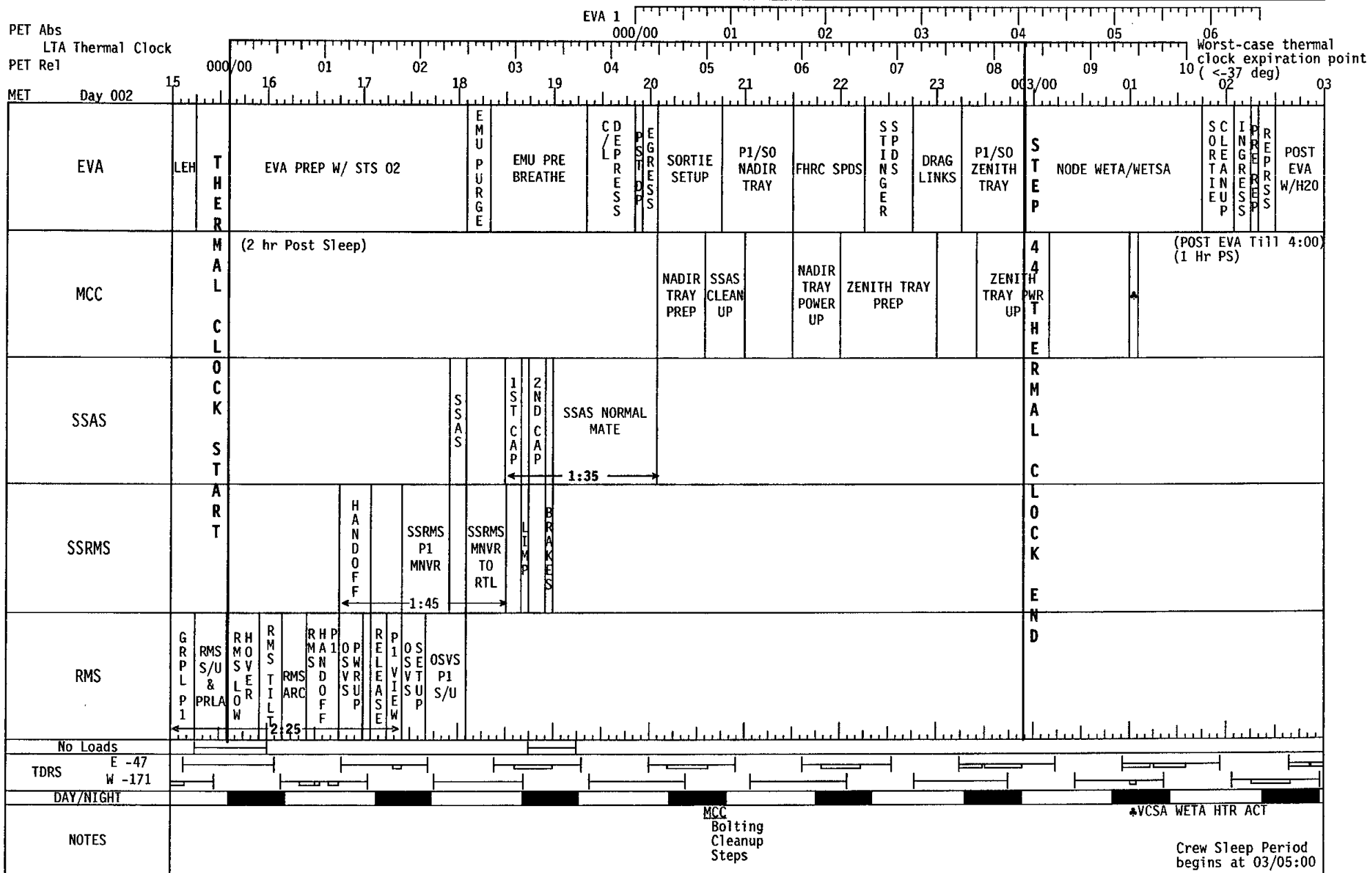
B	IMU STAR VERIFICATION
ID: -Y: 43, RASALHAGUE MET (10/13:37 TO 10/14:32)	
-Z: 15, HADAR MET (10/13:27 TO 10/14:12)	
ANG DIFF: 84.1	
DUAL S TRKR ALIGNMENT	2nd ATTITUDE (SINGLE S TRKR)
R 349 R -Z: 43 -Y: 15	
P 23 P 264 77	
Y 338 Y 29 34	
	Y 345 348
REQD ID:	
-Y: ____, -Z: ____, ANG ERR ____, ____	
ANG: 1 2 3	
ΔX () ____, ____ () ____, ____ () ____, ____	
ΔY () ____, ____ () ____, ____ () ____, ____	
ΔZ () ____, ____ () ____, ____ () ____, ____	
If any ΔX, ΔY, OR $\Delta Z > 0.1$ Check MCC	
EXECUTION TIME: __/__:__ MET	

CRITICAL PATH TIMELINE

CRITICAL PATH
TIMELINE

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STS-113/11A FD04 CRITICAL PATH



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STS-113 DAP TABLE

STS-113
DAP TABLE

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<u>DAP</u>	<u>PURPOSE</u>	<u>DAP</u>	<u>PURPOSE</u>
A1	- NOMINAL	B1	- NOM OMS RCS BURNS
A2	- PTC	B2	- LOSS OF VERN (TAIL ONLY)
A3	- GG	B3	- LOSS OF VERN (ALL)
A4	- PRE/POST DEPLOY	B4	- SSUS DEPLOY
A5	- LOSS OF VERN (ALL)	B5	- COAS/HUD CAL
A6	- LOSS OF VERN (TAIL ONLY)	B6	-
A7	- RENDEZVOUS	B7	- RENDEZVOUS
A8	- TERMINAL PHASE	B8	- TERMINAL PHASE
A9	- PROX OPS/FLYAROUND	B9	- PROX OPS/FLYAROUND
A10	- DOCKING	B10	- DOCKING
A11	- AUTO REBOOST	B11	-
A12	- MATED MNVRS & HOLD (VRCS)	B12	- MATED MNVRS & HOLD (PRCS)
A13	- SHUTTLE A/L DEPRESS ATT CNTL (VRCS ONLY)	B13	-
A14	- SRMS/SSRMS S1 INSTALL	B14	-
A15	-	B15	-

DAPs FOR MATED OPS ARE BASED ON ANALYSIS FROM GNC, PDRS, AND DRAPER LABS

UNIV PTG	
TGT ID	= 1 Orbiting Vehicle = 2 Earth ctr = 3 Earth tgt Input LAT (± 90) LON (± 180 , + = Earth) ALT (-3444.0 to 20000.0 nm)
	= 4 Sun ctr = 5 Celestial tgt Input RA (0-359.99) DEC (± 90) = 11-110 Nav Stars
BODY VECT	= 1 +X* = 2 -X* = 3 -Z* = 4 -Y Star Tracker* = 5 Optional Input P (0-359.99) Y (270-359.99, 0-90)
* input OM	→ OM (0-359.99)
MON AXIS	= 1 +X = 2 -X

CNTL ACC = 0 UNLOADED RMS
= 1 VRCS MATED CONTROL
= 2 ALT PRCS MATED CONTROL
= 3 A/L DEPRESS VRCS MATED CONTROL
= 4 A/L DEPRESS ALT PRCS MATED CONTROL
= 5-9 NOT USED

STS-113 DAP A1 THROUGH A8 CONFIGURATIONS

	ITEM #	A1	A2	A3	A4	A5	A6	A7	A8
PRI									
ROT RATE	10(50)	0.2000	0.4000	0.2000	0.5000	0.2000	0.2000	0.2000	0.0500
ATT DB	11(51)	5.00	1.00	0.30	3.00	5.00	5.00	2.00	2.00
RATE DB	12(52)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
ROT PLS	13(53)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
COMP	14(54)	.000	.000	.000	.000	.000	.000	.000	.000
P OPTION	15(55)	ALL	ALL	ALL	ALL	ALL	TAIL	ALL	ALL
Y OPTION	16(56)	ALL	ALL	TAIL	ALL	ALL	TAIL	ALL	ALL
TRAN PLS	17(57)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
ALT									
RATE DB	18(58)	0.200	0.200	0.070	0.200	0.070	0.070	0.100	0.100
JET OPT	19(59)	ALL	ALL	ALL	ALL	ALL	TAIL	ALL	ALL
# JETS	20(60)	2	2	1	2	1	1	2	2
ON TIME	21(61)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
DELAY	22(62)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VERN									
ROT RATE	23(63)	0.2000	0.4000	0.0080	0.2000	0.0500	0.0500	0.0160	0.0500
ATT DB	24(64)	1.000	1.000	0.070	1.000	1.000	1.000	1.000	1.000
RATE DB	25(65)	.020	.020	.010	.020	.020	.020	.020	.020
ROT PLS	26(66)	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.050
COMP	27(67)	.000	.000	.000	.000	.000	.000	.000	.000
CNTL ACC	28(68)	0	0	0	0	0	0	0	0
PURPOSE		NOMINAL	PTC	GG	PRE/POST DEPLOY	LOSS OF VERN (ALL)	LOSS OF VERN (TAIL ONLY)	RNDZ	TERMINAL PHASE

STS-113 DAP A9 THROUGH A15 CONFIGURATIONS

	ITEM #	A9	A10	A11	A12	A13	A14	A15
PRI								
ROT RATE	10(50)	0.1300	0.0500	0.1000	0.1000	0.0500	0.0500	0.1000
ATT DB	11(51)	1.00	0.50	15.0000	5.00	2.00	5.00	40.00
RATE DB	12(52)	0.10	0.10	0.20	0.20	0.20	0.20	0.20
ROT PLS	13(53)	0.10	0.10	0.10	0.04	0.10	0.04	0.003
COMP	14(54)	.000	.000	.000	.000	.000	.000	.000
P OPTION	15(55)	TAIL	TAIL	TAIL	TAIL	ALL	TAIL	TAIL
Y OPTION	16(56)	TAIL	TAIL	TAIL	TAIL	ALL	TAIL	TAIL
TRAN PLS	17(57)	0.05	0.05	0.10	0.01	0.10	0.01	0.01
ALT								
RATE DB	18(58)	0.100	0.100	0.070	0.070	0.100	0.070	0.200
JET OPT	19(59)	TAIL	TAIL	TAIL	TAIL	ALL	TAIL	TAIL
# JETS	20(60)	2	2	3	3	2	3	2
ON TIME	21(61)	0.08	0.08	0.08	0.08	0.08	0.08	0.08
DELAY	22(62)	0.00	0.00	12.00	11.04	0.00	11.04	0.00
VERN								
ROT RATE	23(63)	0.1300	0.0500	0.1000	0.1000	0.1000	0.0500	0.0200
ATT DB	24(64)	1.000	0.500	5.000	3.000	3.000	5.000	5.000
RATE DB	25(65)	.020	.020	.050	.050	.080	.050	.050
ROT PLS	26(66)	0.050	0.050	0.010	0.002	0.002	0.002	0.001
COMP	27(67)	.000	.000	.000	.000	.000	.000	.000
CNTL ACC	28(68)	0	0	1,2,5,6***	1,5*	7,8****	1-6**	7
PURPOSE		PROX OPS/ FLYAROUND	DOCKING	AUTO REBOOST	MATED MNVRS & HOLD (VRCS)	SHUTTLE A/L DEPRESS ATT CNTL (VRCS ONLY)	SRMS/SSRMS P1 INSTALL	

BOLD-ITALIC indicate a change from the I-load

*1 Pre P1 Install, 5 Post P1 Install

**1,3,5 for VERN during Install, 2,4,6 for ALT during Install

***1 (CONFIG 3) or 2 (CONFIG 3) Pre P1 Install, 5 (CONFIGs 3&4) or 6 (CONFIGs 1&2) Post P1 Install

****7 Pre P1 Install, 8 Post P1 Install

STS-113 DAP B1 THROUGH B8 CONFIGURATIONS

	ITEM #	B1	B2	B3	B4	B5	B6	B7	B8
PRI									
ROT RATE	30(50)	0.5000	0.2000	0.2000	0.2000	0.2000	0.5000	0.5000	0.0500
ATT DB	31(51)	3.00	3.00	3.00	0.30	3.00	3.00	2.00	2.00
RATE DB	32(52)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
ROT PLS	33(53)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
COMP	34(54)	.000	.000	.000	.000	.000	.000	.000	.000
P OPTION	35(55)	ALL	TAIL	ALL	TAIL	TAIL	ALL	ALL	ALL
Y OPTION	36(56)	ALL	TAIL	ALL	TAIL	TAIL	ALL	ALL	ALL
TRAN PLS	37(57)	0.10	0.02	0.02	0.02	0.02	0.02	0.05	0.05
ALT									
RATE DB	38(58)	0.200	0.070	0.070	0.100	0.200	0.200	0.100	0.100
JET OPT	39(59)	ALL	TAIL	ALL	ALL	ALL	ALL	ALL	ALL
# JETS	40(60)	2	1	1	2	2	2	2	2
ON TIME	41(61)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
DELAY	42(62)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VERN									
ROT RATE	43(63)	0.2000	0.2000	0.2000	0.0080	0.0160	0.2000	0.2000	0.0500
ATT DB	44(64)	1.000	1.000	1.000	0.100	0.033	1.000	1.000	1.000
RATE DB	45(65)	.020	.020	.020	.010	.020	.020	.020	.020
ROT PLS	46(66)	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.020
COMP	47(67)	.000	.000	.000	.000	.000	.000	.000	.000
CNTL ACC	48(68)	0	0	0	0	0	0	0	0
PURPOSE		NOM OMS RCS BURNS	LOSS OF VERN (TAIL ONLY)	LOSS OF VERN (ALL)	SSUS DEPLOY	COAS/HUD CAL		RNDZ	TERMINAL PHASE

STS-113 B9 THROUGH B15 DAP CONFIGURATIONS

	ITEM #	B9	B10	B11	B12	B13	B14	B15
PRI								
ROT RATE	30(50)	0.1300	0.0500	0.5000	0.1000	0.5000	0.5000	0.1000
ATT DB	31(51)	1.00	0.50	3.00	5.00	3.00	3.00	40.00
RATE DB	32(52)	0.10	0.10	0.20	0.20	0.20	0.20	0.200
ROT PLS	33(53)	0.04	0.04	0.04	0.04	0.04	0.04	0.003
COMP	34(54)	.000	.000	.000	.000	.000	.000	.000
P OPTION	35(55)	TAIL	TAIL	ALL	TAIL	ALL	ALL	TAIL
Y OPTION	36(56)	TAIL	TAIL	ALL	TAIL	ALL	ALL	TAIL
TRAN PLS	37(57)	0.01	0.01	0.02	0.01	0.02	0.02	0.01
ALT								
RATE DB	38(58)	0.100	0.100	0.200	0.070	0.200	0.200	0.200
JET OPT	39(59)	TAIL	TAIL	ALL	TAIL	ALL	ALL	TAIL
# JETS	40(60)	2	2	2	3	2	2	2
ON TIME	41(61)	0.08	0.08	0.08	0.08	0.08	0.08	0.08
DELAY	42(62)	0.00	0.00	0.00	11.04	0.00	0.00	0.00
VERN								
ROT RATE	43(63)	0.1300	0.0500	0.2000	0.1000	0.2000	0.2000	0.0200
ATT DB	44(64)	1.000	0.500	1.000	3.000	1.000	1.000	5.000
RATE DB	45(65)	.020	.020	.020	.050	.020	.020	.050
ROT PLS	46(66)	0.020	0.020	0.002	0.002	0.002	0.002	0.001
COMP	47(67)	.000	.000	.000	.000	.000	.000	.000
CNTL ACC	48(68)	0	0	0	2,6*	0	0	7
PURPOSE		PROX OPS/ FLYAROUND	DOCKING		MATED MNVRS & HOLD (PRCS)			

BOLD-ITALIC indicate a change from I-load
 *2 Pre P1 Install, 6 Post P1 Install

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ATTITUDE TIMELINE

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Attitude Timeline

MET/GMT	ORBITER		REF ATT/REMARKS	EVENT
	MNVR OPTION	DAP E/S/ β		
1 000/01:00:00 M 314/07:21:02 G	STS-113/11A Flight Launch 10 November 2002 314/06:21:02 GMT			
2 000/01:06:00 M 14:26 314/07:27:02 G 35:28	LVLH TRACK TGT = 2 P = 90.00 BV = 3 Y = 0.00 OM = 270.00 MNVR A6/AUTO/ALT HOLD (same)	RATE 0.2000 DB AT 5.00 DB RT 0.070 EARTH R 0 P 90 $\beta = -6$	LVLH R= 0.00 P=180.00 Y= 90.00	-ZLV +YVV SOPA and PLBD Opening
3 000/03:20:00 M 29:28 314/09:41:02 G 50:30	M50 (CALC) INRTL R = 131.00 MNVR P = 56.00 PYR Y = 339.00 MNVR A6/AUTO/ALT HOLD (same)	RATE 0.2000 DB AT 5.00 DB RT 0.070 SUN R 186 P 84 $\beta = -5$	+X PYR R = 179.68 P = 343.50 Y = 0.13 LVLH 000/03:35:22 M 314/09:56:24 G	NC-1 Dual OMS Heads Down dv = 180.1
4 000/03:55:00 M 04:09:58 314/10:16:02 G 31:00	LVLH TRACK TGT = 2 P = 90.00 BV = 3 Y = 0.00 OM = 0.00 MNVR A6/AUTO/ALT HOLD (same)	RATE 0.2000 DB AT 5.00 DB RT 0.070 EARTH R 0 P 90 $\beta = -5$	LVLH R= 0.00 P=180.00 Y= 0.00	-ZLV -XVV Crew Sleep
5 000/16:50:00 M 17:04:36 314/23:11:02 G 25:38	M50 (CALC) INRTL R = 133.00 MNVR P = 62.00 PYR Y = 345.00 MNVR A6/AUTO/ALT HOLD (same)	RATE 0.2000 DB AT 5.00 DB RT 0.070 SUN R 185 P 83 $\beta = -3$	+X PYR R = 177.56 P = 343.87 Y = 8.89 LVLH 000/17:07:35 M 314/23:28:37 G	NC-2 Right OMS Heads Down dv = 8.0
6 000/17:20:00 M 34:14 314/23:41:02 G 55:16	LVLH TRACK TGT = 2 P = 90.00 BV = 3 Y = 0.00 OM = 0.00 MNVR A6/AUTO/ALT HOLD (same)	RATE 0.2000 DB AT 5.00 DB RT 0.070 EARTH R 0 P 90 $\beta = -3$	LVLH R= 0.00 P=180.00 Y= 0.00	-ZLV -XVV
7 000/22:50:50 M 315/05:11:52 G				NPC Multi-Axis RCS TIG: 000/22:50:51 dv = 2.2
8 001/01:05:00 M 19:59 315/07:26:02 G 41:01	M50 (CALC) INRTL R = 227.00 MNVR P = 230.00 PYR Y = 17.00 MNVR A6/AUTO/ALT HOLD (same)	RATE 0.2000 DB AT 5.00 DB RT 0.070 SUN R 358 P 90 $\beta = -1$	+X PYR R = 180.01 P = 343.71 Y = 0.36 LVLH 001/01:25:54 M 315/07:46:56 G	NC-3 Dual OMS Heads Down dv = 151.1
9 001/01:30:00 M 44:58 315/07:51:02 G 08:06:00	LVLH TRACK TGT = 2 P = 90.00 BV = 3 Y = 0.00 OM = 0.00 MNVR A6/AUTO/ALT HOLD (same)	RATE 0.2000 DB AT 5.00 DB RT 0.070 EARTH R 0 P 90 $\beta = -1$	LVLH R= 0.00 P=180.00 Y= 0.00	-ZLV -XVV Crew Sleep
10 001/14:15:00 M 22:30 315/20:36:02 G 43:32 Future Load	LVLH TRACK TGT = 2 P = 90.00 BV = 3 Y = 0.00 OM = 270.00 MNVR A6/AUTO/ALT HOLD (same)	RATE 0.2000 DB AT 5.00 DB RT 0.070 EARTH R 0 P 90 $\beta = 0$	LVLH R= 0.00 P=180.00 Y= 90.00	-ZLV +YVV Simo Dump

ALL ORBITER DATA IN
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Attitude Timeline

MET/GMT	ORBITER		REF ATT/REMARKS	EVENT
	MNVR OPTION	DAP E/S/ β		
11 001/15:45:00 M 52:30 315/22:06:02 G 13:32	LVLH TRACK TGT = 2 P = 90.00 BV = 3 Y = 0.00 OM = 0.00 MNVR A6/AUTO/ALT HOLD A6/AUTO/VERN	RATE 0.2000 DB AT 5.00 DB RT 0.070 EARTH R 0 P 90 $\beta = 0$	LVLH R= 0.00 P=180.00 Y= 0.00	-ZLV -XVV
12 001/16:40:00 M 315/23:01:02 G				NH Placeholder Multi-Axis RCS TIG: 001/16:40:00 dv = 0.0
13 001/17:10:00 M 21:22 315/23:31:02 G 42:24	M50 (CALC) INRTL R = 348.00 MNVR P = 107.00 PYR Y = 314.00 MNVR A7/AUTO/ALT HOLD (same)	RATE 0.2000 DB AT 2.00 DB RT 0.100 SUN R 358 P 34 $\beta = 1$	+X PYR R = 359.43 P = 16.26 Y = 0.18 LVLH 001/17:25:20 M 315/23:46:22 G	NC-4 Dual OMS Heads Up dv = 20.8
14 001/17:28:00 M 37:43 315/23:49:02 G 58:45	LVLH TRACK TGT = 2 P = 0.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A7/AUTO/ALT HOLD A7/AUTO/VERN	RATE 0.2000 DB AT 2.00 DB RT 0.100 EARTH R 225 P 0 $\beta = 1$	LVLH R= 0.00 P=270.00 Y= 0.00	+XLV -ZVV -Z Target Track
15 001/17:38:00 M 18:05:47 315/23:59:02 G 316/00:26:49	LVLH TRACK TGT = 2 P = 350.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A7/AUTO/VERN HOLD (same)	RATE 0.0060 DB AT 1.000 DB RT 0.020 EARTH R 180 P 10 $\beta = 1$	LVLH R= 0.00 P=280.00 Y= 0.00	-Z Target Track
16 001/18:06:00 M 29:49 316/00:27:02 G 50:51	LVLH TRACK TGT = 2 P = 340.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A7/AUTO/VERN HOLD (same)	RATE 0.0070 DB AT 1.000 DB RT 0.020 EARTH R 180 P 20 $\beta = 1$	LVLH R= 0.00 P=290.00 Y= 0.00	-Z Target Track
17 001/18:30:00 M 49:36 316/00:51:02 G 01:10:38	LVLH TRACK TGT = 2 P = 0.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A7/AUTO/VERN HOLD (same)	RATE 0.0170 DB AT 1.000 DB RT 0.020 EARTH R 27 P 0 $\beta = 1$	LVLH R= 0.00 P=270.00 Y= 0.00	-Z Target Track
18 001/18:50:00 M 56:23 316/01:11:02 G 17:25	M50 (CALC) INRTL R = 343.00 MNVR P = 100.00 PYR Y = 302.00 MNVR A7/AUTO/ALT HOLD (same)	RATE 0.2000 DB AT 2.00 DB RT 0.100 SUN R 15 P 37 $\beta = 1$	+X PYR R = 359.62 P = 14.91 Y = 347.38 LVLH 001/18:57:29 M 316/01:18:31 G	TI Left OMS Heads Up Sunset -38.5 mins dv = 9.0
19 001/19:05:00 M 15:48 316/01:26:02 G 36:50	LVLH TRACK TGT = 2 P = 355.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A7/AUTO/ALT HOLD A7/AUTO/VERN	RATE 0.2000 DB AT 2.00 DB RT 0.100 EARTH R 180 P 5 $\beta = 1$	LVLH R= 0.00 P=275.00 Y= 0.00	-Z Target Track
20 001/19:17:00 M 42:00 316/01:38:02 G 02:03:02	LVLH TRACK TGT = 2 P = 340.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A7/AUTO/VERN HOLD (same)	RATE 0.0100 DB AT 1.000 DB RT 0.020 EARTH R 180 P 20 $\beta = 1$	LVLH R= 0.00 P=290.00 Y= 0.00	-Z Target Track

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Attitude Timeline

MET/GMT	ORBITER		REF ATT/REMARKS	EVENT
	MNVR OPTION	DAP E/S/ β		
21 001/19:43:30 M 20:16:50 316/02:04:32 G 37:52	LVLH TRACK TGT = 2 P = 280.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A7/AUTO/VERN HOLD (same)	RATE 0.0300 DB AT 1.000 DB RT 0.020 EARTH R 180 P 80 $\beta = 1$	LVLH R= 0.00 P=350.00 Y= 0.00	-Z Target Track
22 001/20:21:00 M 22:40 316/02:42:02 G 43:42	LVLH TRACK TGT = 2 P = 270.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A8/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 1.000 DB RT 0.020 EARTH R 180 P 90 $\beta = 1$	LVLH R= 0.00 P= 0.00 Y= 0.00	+ZLV +XVV Establish RBAR
23 001/20:35:00 M 46:32 316/02:56:02 G 03:07:34	LVLH TRACK TGT = 2 P = 180.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A9/AUTO/PRI HOLD A9/AUTO/VERN	RATE 0.1300 DB AT 1.00 DB RT 0.10 EARTH R 331 P 180 $\beta = 1$	LVLH R= 0.00 P= 90.00 Y= 0.00	-XLV +ZVV (TORVA) Transition from +RBAR to +VBAR
24 001/21:18:00 M 316/03:39:02 G				Free Drift For Docking DOCKING / DO4 001/21:18:00
25 001/21:45:00 M 49:04 316/04:06:02 G 10:06	COE (CALC) TGT = 2 P = 156.00 BV = 5 Y = 359.00 OM = 356.00 MNVR A12/AUTO/VERN HOLD A12/FREE/VERN	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 358 P 156 $\beta = 1$	ISS YPR R = 358.91 P = 24.00 Y = 355.55 LVLH 001/21:45:00 M 316/04:06:02 G	Bias -XLV +ZVV Crew Sleep ORB R = 4.06 LVLH P = 114.01 Y = 0.71
26 003/16:15:00 M 39:01 317/22:36:02 G 23:00:03	COE (CALC) TGT = 2 P = 300.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A12/AUTO/VERN HOLD A11/AUTO/VERN	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 180 P 60 $\beta = 9$	+X PYR R = 0.00 P = 330.00 Y = 0.00 LVLH 003/16:45:00 M 317/23:06:02 G	Bias +ZLV +XVV Reboost One Config 4 ORB R = 0.00 LVLH P = 330.00 Y = 0.00
27 003/18:00:00 M 24:01 318/00:21:02 G 45:03	COE (CALC) TGT = 2 P = 156.00 BV = 5 Y = 359.00 OM = 356.00 MNVR A12/AUTO/VERN HOLD A12/FREE/VERN	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 358 P 156 $\beta = 9$	ISS YPR R = 358.91 P = 24.00 Y = 355.55 LVLH 003/18:00:00 M 318/00:21:02 G	Bias -XLV +ZVV ORB R = 4.06 LVLH P = 114.01 Y = 0.71
28 003/22:35:00 M 49:20 318/04:56:02 G 05:10:22	COE (CALC) TGT = 2 P = 156.00 BV = 5 Y = 0.00 OM = 270.00 MNVR A12/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 0 P 156 $\beta = 10$	+X PYR R = 90.00 P = 90.00 Y = 24.00 LVLH 003/22:35:00 M 318/04:56:02 G	Bias -XLV +YVV Simo Dump and PWR Dump ORB R = 90.00 LVLH P = 90.00 Y = 24.00
29 004/00:30:00 M 44:20 318/06:51:02 G 07:05:22	COE (CALC) TGT = 2 P = 156.00 BV = 5 Y = 359.00 OM = 356.00 MNVR A12/AUTO/VERN HOLD A12/FREE/VERN	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 358 P 156 $\beta = 10$	ISS YPR R = 358.91 P = 24.00 Y = 355.55 LVLH 004/00:30:00 M 318/06:51:02 G	Bias -XLV +ZVV Crew Sleep ORB R = 4.06 LVLH P = 114.01 Y = 0.71
30 005/17:10:00 M 39:19 319/23:31:02 G 320/00:00:21	COE (CALC) TGT = 2 P = 176.00 BV = 5 Y = 0.00 OM = 180.00 MNVR A12/AUTO/VERN HOLD A11/AUTO/VERN	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 0 P 176 $\beta = 16$	+X PYR R = 180.00 P = 86.00 Y = 0.00 LVLH 005/17:45:00 M 320/00:06:02 G	Bias -XLV -ZVV Reboost Two Config 3 ORB R = 180.00 LVLH P = 86.00 Y = 0.00

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Attitude Timeline

MET/GMT	ORBITER			REF ATT/REMARKS	EVENT
	MNVR OPTION	DAP E/S/ β			
31 005/18:20:00 M 49:19 320/00:41:02 G 01:10:21	COE (CALC) TGT = 2 P = 156.00 BV = 5 Y = 359.00 OM = 356.00 MNVR A12/AUTO/VERN HOLD A12/FREE/VERN	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 358 P 156 $\beta = 16$	ISS YPR R = 358.91 P = 24.00 Y = 355.55 LVLH 005/18:20:00 M 320/00:41:02 G	Bias -XLV +ZVV ORB R = 4.06 LVLH P = 114.01 Y = 0.71	
32 005/23:35:00 M 49:20 320/05:56:02 G 06:10:22	COE (CALC) TGT = 2 P = 156.00 BV = 5 Y = 0.00 OM = 270.00 MNVR A12/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 0 P 156 $\beta = 17$	+X PYR R = 90.00 P = 90.00 Y = 24.00 LVLH 005/23:35:00 M 320/05:56:02 G	Bias -XLV +YVV Simo Dump ORB R = 90.00 LVLH P = 90.00 Y = 24.00	
33 006/01:40:00 M 54:20 320/08:01:02 G 15:22	COE (CALC) TGT = 2 P = 156.00 BV = 5 Y = 359.00 OM = 356.00 MNVR A12/AUTO/VERN HOLD A12/FREE/VERN	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 358 P 156 $\beta = 17$	ISS YPR R = 358.91 P = 24.00 Y = 355.55 LVLH 006/01:40:00 M 320/08:01:02 G	Bias -XLV +ZVV Crew Sleep ORB R = 4.06 LVLH P = 114.01 Y = 0.71	
34 007/17:15:00 M 44:19 321/23:36:02 G 322/00:05:21	COE (CALC) TGT = 2 P = 176.00 BV = 5 Y = 0.00 OM = 180.00 MNVR A12/AUTO/VERN HOLD A11/AUTO/VERN	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 0 P 176 $\beta = 22$	+X PYR R = 180.00 P = 86.00 Y = 0.00 LVLH 007/17:45:00 M 322/00:06:02 G	Bias -XLV -ZVV Reboost Three Config 3 ORB R = 180.00 LVLH P = 86.00 Y = 0.00	
35 007/19:00:00 M 29:19 322/01:21:02 G 50:21	COE (CALC) TGT = 2 P = 156.00 BV = 5 Y = 359.00 OM = 356.00 MNVR A12/AUTO/VERN HOLD A12/FREE/VERN	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 358 P 156 $\beta = 22$	ISS YPR R = 358.91 P = 24.00 Y = 355.55 LVLH 007/19:00:00 M 322/01:21:02 G	Bias -XLV +ZVV Crew Sleep ORB R = 4.06 LVLH P = 114.01 Y = 0.71	
36 008/17:55:00 M 59:04 323/00:16:02 G 20:06	COE (CALC) TGT = 2 P = 180.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A12/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 320 P 180 $\beta = 25$	ISS YPR R = 0.00 P = 0.00 Y = 0.00 LVLH 008/19:25:00 M 323/01:46:02 G	-XLV +ZVV UNDOCKING / DO4 008/19:05:00 Sunset -10 mins ORB R = 0.00 LVLH P = 90.00 Y = 0.00	
37 008/19:51:18 M 323/02:12:20 G	LVLH TRACK ROTR ABOUT +Y AXIS RATE=0.130 MNVR A9/LVLH/VERN HOLD (same)	RATE 0.1300 DB AT 1.000 DB RT 0.020 $\beta = 25$	LVLH R= 0.00 P= 90.00 Y= 0.00	Flyaround Twice Orb Rate 1+ Rev	
38 008/20:49:00 M 323/03:10:02 G	 HOLD A9/AUTO/VERN	RATE 0.1300 DB AT 1.000 DB RT 0.020 EARTH R 0 P 90 $\beta = 25$	LVLH R= 0.00 HOLD P=180.06 Y= 0.00	Sep Burn 3.0 fps 2nd -RBAR xing TIG 008/20:49:00	
39 008/21:00:00 M 15:00 323/03:21:02 G 36:02	LVLH TRACK TGT = 2 P = 270.00 BV = 5 Y = 0.00 OM = 230.00 MNVR A6/AUTO/ALT HOLD (same)	RATE 0.2000 DB AT 5.00 DB RT 0.070 EARTH R 180 P 90 $\beta = 25$	LVLH R=180.00 P=180.00 Y=310.00	Bias +ZLV +YVV Simo Dump Region C	
40 008/22:40:00 M 50:30 323/05:01:02 G 11:32	LVLH TRACK TGT = 2 P = 180.00 BV = 5 Y = 60.00 OM = 70.00 MNVR B2/AUTO/ALT HOLD (same)	RATE 0.2000 DB AT 3.00 DB RT 0.070 EARTH R 90 P 120 $\beta = 25$	LVLH R=280.31 P=148.43 Y= 17.23 Deploy Window Open: 23:01 Close: 23:11	Bias +YLV -XVV MEPSI Deploy Retrograde with 70 deg OOP Sunrise 22:55	

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Attitude Timeline

MET/GMT	ORBITER		REF ATT/REMARKS	EVENT
	MNVR OPTION	DAP E/S/ β		
41 008/23:15:00 M 22:32 323/05:36:02 G 43:34	LVLH TRACK TGT = 2 P = 90.00 BV = 3 Y = 0.00 OM = 0.00 MNVR A6/AUTO/ALT HOLD (same)	RATE 0.2000 DB AT 5.00 DB RT 0.070 EARTH R 0 P 90 β = 25	LVLH R= 0.00 P=180.00 Y= 0.00	-ZLV -XVV Crew Sleep
42 009/15:10:00 M 323/21:31:02 G	HOLD A6/INRT/ALT	RATE 0.2000 DB AT 5.00 DB RT 0.070 SUN R 276 P 27 β = 27	INRTL R= 27.82 HOLD P=125.57 Y=330.91	FCS C/O and RCS H/F
43 009/15:30:00 M 39:27 323/21:51:02 G 22:00:29	LVLH TRACK TGT = 2 P = 90.00 BV = 3 Y = 0.00 OM = 270.00 MNVR A6/AUTO/ALT HOLD (same)	RATE 0.2000 DB AT 5.00 DB RT 0.070 EARTH R 0 P 90 β = 27	LVLH R= 0.00 P=180.00 Y= 90.00	-ZLV +YVV Condensate Dump
44 009/17:55:00 M 18:02:30 324/00:16:02 G 23:32	LVLH TRACK TGT = 2 P = 90.00 BV = 3 Y = 0.00 OM = 0.00 MNVR A6/AUTO/ALT HOLD (same)	RATE 0.2000 DB AT 5.00 DB RT 0.070 EARTH R 0 P 90 β = 27	LVLH R= 0.00 P=180.00 Y= 0.00	-ZLV -XVV Crew Sleep
45 010/13:09:00 M 23:02 324/19:30:02 G 44:04	INRTL R = 180.00 MNVR P = 288.00 Y = 76.00 MNVR A6/AUTO/ALT HOLD (same)	RATE 0.2000 DB AT 5.00 DB RT 0.070 SUN R 325 P 150 β = 28	Star Pair AOS: 13:23 LOS: 13:54	IMU Align -Y: 50 AVIOR -Z: 41 DENEbola
46 010/13:33:00 M 45:11 324/19:54:02 G 20:06:13	INRTL R = 349.00 MNVR P = 23.00 Y = 338.00 MNVR A6/AUTO/ALT HOLD (same)	RATE 0.2000 DB AT 5.00 DB RT 0.070 SUN R 312 P 93 β = 28	Star Pair AOS: 13:37 LOS: 14:12	IMU Verif -Y: 43 RASALHAGUE -Z: 21 HADAR
47 010/14:00:00 M 07:55 324/20:21:02 G 28:57	TGT= 4 BV = 5 P = 184.00 Y = 0.00 OM = 270.00 MNVR A6/AUTO/ALT HOLD (same)	RATE 0.2000 DB AT 5.00 DB RT 0.070 SUN R 180 P 176 β = 28	INRTL R= 47.29 P=323.61 Y= 47.91 RA= 235.335 DEC= -19.632S	-XSI Rad Cold Soak
48 010/15:44:00 M 50:24 324/22:05:02 G 11:26	INRTL R = 138.00 MNVR P = 296.00 Y = 32.00 MNVR A5/AUTO/ALT HOLD (same)	RATE 0.2000 DB AT 5.00 DB RT 0.070 SUN R 90 P 150 β = 28		Comm. Attitude OPS 3 Transition
49 010/17:50:00 M 55:30 325/00:11:02 G 16:32	M50 (CALC) INRTL R = 332.00 MNVR P = 298.00 PYR Y = 31.00 MNVR TRN/AUTO/PRI HOLD (same)	RATE 0.5000 DB AT 3.50 DB RT 0.20 SUN R 259 P 150 β = 29	+X PYR R = 0.21 P = 195.73 Y = 0.09 LVLH 010/18:09:00 M 325/00:30:02 G	D/O Burn KSC 169 Dual OMS Heads Down

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FLIGHT PLAN NOTES

FLIGHT PLAN NOTES
(CONSTRAINTS AND GUIDELINES)

A. FLIGHT DESCRIPTION

Orbiter: OV105/Endavour
 Launch Window: 10 min
 Inclination: 51.6°
 Insertion Altitude: 122 nm
 Rendezvous Altitude: 210 nm
 Duration: 11 + 1 + 2 days

B. CREW

CDR/RMS – Jim Wetherbee
 MS1/EV1 – Mike Lopez-Alegria

PLT/IV – Paul Lockhart
 MS2/EV2 – John Herrington

Expedition 6 (Up ISS)

ISS CDR – Ken Bowersox
 FE-1 – Nikolai Mikhailovich Budarin
 FE-2 – Don Pettit

Expedition 5 (Down ISS)

ISS CDR – Valery Grigorievich Korzun
 FE-1 – Peggy Whitson
 FE-2 – Sergei Yevgenyevich Treschev

C. MAJOR EVENTS

<u>EVENT</u>	<u>MET</u>	<u>DATE</u>	<u>CST</u>	<u>GMT</u>
Launch	0/00:00	11/10/2002	00:21	314/06:21
OMS-2	0/00:39	11/10/2002	01:00	314/07:00
NC-1	0/03:35	11/10/2002	03:56	314/09:56
NC-2	0/17:08	11/10/2002	17:29	314/23:29
NPC	0/22:51	11/10/2002	23:12	315/05:12
NC-3	1/01:26	11/11/2002	01:47	315/07:47
NH	1/16:40	11/11/2002	17:01	315/23:01
NC-4	1/17:25	11/11/2002	17:46	315/23:46
Ti	1/18:57	11/11/2002	19:18	316/01:18
DOCK	1/21:18	11/11/2002	21:39	316/03:39
Ingress	1/23:05	11/11/2002	23:26	316/05:26
P1 Unberth	2/15:00	11/12/2002	15:21	316/21:21
P1 2nd Stage Cap	2/19:00	11/12/2002	19:21	317/01:21
EVA #1	2/19:50	11/12/2002	20:11	317/02:11
Reboost #1 (CFG4)	3/16:50	11/13/2002	17:11	317/23:11
EXP-6 transferred	3/17:45	11/13/2002	18:06	318/00:06
EVA #2	4/18:50	11/14/2002	19:11	319/01:11
Reboost #2 (CFG3)	5/17:45	11/15/2002	18:06	320/00:06
MT Translate 4-7	6/16:30	11/16/2002	16:51	320/22:51
EVA #3	6/18:50	11/16/2002	19:11	321/01:11
MT Translate 7-4	6/23:50	11/17/2002	00:11	321/06:11
Reboost #3 (CFG3)	7/17:50	11/17/2002	18:11	322/00:11
Egress	8/16:35	11/18/2002	16:56	322/22:56
Undock	8/19:05	11/18/2002	19:26	323/01:26
Final Sep	8/20:49	11/18/2002	21:10	323/03:10
MEPSI Deploy	8/23:01	11/18/2002	23:22	323/05:22
D/O TIG	10/18:09	11/20/2002	18:30	325/00:30
Landing	10/19:14	11/20/2002	19:35	325/01:35

FLIGHT PLAN NOTES

D. LANDING OPPORTUNITIES

		<u>Landing Orbit No.</u>	<u>Site</u>	<u>CDT</u>	<u>MET</u>
Nominal	Primary	169	KSC	20:05	10/19:14
	1 Rev Late	170	KSC	22:12	10/20:51
1 Day Late	Primary	185	KSC	21:12	11/19:51
	1 Rev Late	186	EDW	19:43	11/21:22
2 Day Late	Primary	200	KSC	20:13	12/18:52
	1 Rev Late	201	KSC	21:49	12/20:28

E. COMMUNICATIONS

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

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

Shuttle

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

ISS

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

F. PAYLOADS

1. LAUNCH PACKAGE (LP) 11A

The 11A CE consists of the Integrated Truss Segment (ITS) Port 1 (P1) pre-integrated with an Ultra High Frequency (UHF) communication equipment, Thermal Radiator Rotary Joint (TRRJ), three External Active Thermal Control System (EATCS) radiators, DC-to-DC Converter Unit (DDCU), Remote Power Controller Module (RPCM), Nitrogen Tank Assembly (NTA), Ammonia Tank Assembly (ATA), Pump Module Assembly (PMA), and Crew Equipment Translation Aid (CETA) cart.

The ITS P1 CE occupies the majority of the payload bay and is attached in the payload bay by four longeron trunnion latches and two keel trunnion latches.

The middeck consists of Extravehicular Activity (EVA) tools and equipment, crew rotation equipment, Operations Data File (ODF), Crew Health Care System (CHeCS), crew provisions, International Space Station (ISS) Utilization payloads, which includes Human Research Facility (HRF) resupply, and three Payload Mounting Panels (PMPs) to be replaced by returning powered payloads, Portable Computer System (PCS) items, and photo/Television (TV) equipment.

The Return Complement (RC) consists of crew rotation hardware, CheCS resupply, excess integration hardware, Russian hardware, and returning utilization complement, which consists of HRF passive stowage, Commercial Generic Bioprocessing Apparatus (CGBA), Single Thermal Enclose System (STES), and Plant Bioprocessing Apparatus (PGBA).

2. EVA TASKS

EVAs will be performed out of the ISS Joint Airlock to outfit the P1 Truss Segment for operational and survival status. Additionally, the Node Wireless Video System (WVS) External Transceiver Assembly (WETA) will be installed. Following the final P1 truss launch reconfigurations, the Crew Equipment Translation Aid (CETA) cart from the P1 truss will be moved via SSRMS to the S1 and attached to S1's CETA cart. Furthermore, during the EVA #3, the MT will translate to and from worksite #7 with EVA supporting in the event of a failure.

To correct a design flaw in the quick disconnects (QDs), a Spool Positioning Device (SPD) will be installed on the EATCS Loop B dry QDs for the following systems over all three EVAs:

- SO-P1 jumpers
- P1 pump module
- P1 Flex Hose Rotary Coupler (FHRC)
- P1 Thermal Radiator Rotary Joint (TRRJ) Stinger
- P1 Radiator Beam Valve Module (RBVM) using SSRMS (Space Station Remote Manipulator System)
- P1 Ammonia Tank Assembly (ATA)/pump module
- S1 pump module
- S1 FHRC
- S1 ATA/pump module
- S0/Node2 shunt jumper

G. SECONDARY PAYLOADS

1. MEMS-based Pico Satellite (PICOSAT) Inspector (MEPSI)

The MEPSI payload consists of a launcher, or garage, which houses a set of two small deployable satellites, referred to as PICOSATs. Each PICOSAT weighs approximately one kilogram. The two miniature satellites will be attached to each other with a tether on early flights. The launcher is mounted to a standard Space Shuttle-provided Adaptive Payload Carrier (APC). The total assembly, including launcher, firing circuit and PICOSATs, is referred to as the PICOSAT Launcher Assembly (PLA). The total payload weight, including the PLA and the attachment bracket, is approximately 18 pounds. Twenty-eight volt power for the deployment command and telemetry is provided via crew-operated Standard Switch Panel.

After release, the PICOSATs operate on battery power for several days to complete mission objectives.

The purpose of the deployed PICOSATs is to demonstrate the integration of Microelectromechanical Systems (MEMS)- based subsystems for enabling new technology, low-power, autonomous on-board systems in support of critical satellite operations such as: (1) autonomous operation of inspection satellites; (2) demonstrate low power and mass MEMS systems-level technology; (3) provide proof-of-concept for on-board servicing and asset protection.

The three MEPSI missions, planned to be approximately 6 months apart, are designed to systematically evolve to more complex, capable autonomous operations.

H. PAYLOADS OF OPPORTUNITY

NONE

I. ON ORBIT DETAILED TEST OBJECTIVES (DTOs)

NONE

J. ON ORBIT DETAILED SUPPLEMENTAL OBJECTIVES (DSOs)

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

All participants will don the Actiwatch activity monitor as soon as possible on orbit, and will wear the Actiwatch and will record sleep times throughout the mission. Before the first Promethazine (PMZ) dose, participants will collect a saliva sample; thereafter, saliva samples will be collected and a Stanford Sleepiness Score (SSS) completed at 1, 2, 4, 8, 24, 36 and 48 hr post-PMZ. This protocol will be repeated each time PMZ is taken. Participants who do not take PMZ will wear the Actiwatch and record sleep times throughout the mission. However, if a participant elects to take PMZ pre sleep, saliva samples should be collected pre-dose, just before sleep, immediately upon wake-up, 1 hr after wake-up, and at 24, 36, and 48 hr post-dose.

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

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

Space flight – induced alterations in the immune response will become increasingly important on long-duration missions, with one focus being the potential for reactivation and dissemination (shedding) of latent viruses. An example of a latent virus is herpes simplex type-1 (HSV-1), which infects 70 to 80 percent of adults. Its manifestation is classically associated with the presence of cold sores, pharyngitis, and tonsillitis, and is usually acquired through contact with the saliva, skin, or mucous membranes of an infected individual. However, many recurrences are asymptomatic, resulting in shedding of the virus. Twenty subjects have been studied for Epstein-Barr virus. Three additional viruses will be focused upon with an increase in subject allotment.

3. SLEEP-WAKE ACTIGRAPHY AND LIGHT EXPOSURE DURING SPACEFLIGHT (DSO 634)

Subjects will don the Actilight watch as soon as possible upon entering orbit and will wear it continuously throughout the mission on their non-dominant wrists outside of their clothing/sleeve. The Actilight watch can be temporarily removed for activities such as EVAs. Subjects will also complete a short log within 15 min of final awakening every morning in-flight.

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FLIGHT PLAN WALKTHROUGH WITH RATIONALE

FLIGHT PLAN
WALKTHROUGH

International Space Station (ISS) Activities Performed Prior to Shuttle Docking

- ISS Airlock Powerup and Prep for ISS OPS (do not perform steps 12 thru 17), SAFER checkout, REBA battery charge, and PGT and Helmet light recharge.
- Pre-packing for return.
- EMU Prep for transfer.
- 11A Timeline Review.
- PMA 2 HTR Reconfig
- Pre-position CWC hoses for STS water operations

Flight Day 01 – Ascent

- Standard Flight Day 1 (FD01) activities will be completed (IMU Align, Aft Controller C/O, Elevon Park, Auxiliary Power Unit [APU] Heater reconfig, Tissue Equivalent Proportional Counter [TEPC] powerup, Galley Iodine Removal Assembly [GIRA] setup, Shuttle Emergency Eyewash [SEE] setup, and Group B powerdown)..
- Setup will be completed for the Payload Generic Support Computers (PGSCs), Orbital Communications Adapter (OCA), network, and color printer.
- Participating crewmembers will don equipment and begin logs for Detailed Supplementary Objectives (DSOs).
- Status of the middeck powered payloads will be verified.
- Ascent video will be downlinked.
- NC-1 MNVR and BURN will be performed in A6/ALT to conserve FWD Prop.
- Crew will go to sleep 6 hr after launch to support docking on FD03 and the nominal End of Mission landing time with minor sleep shifting. ISS crew will shift to meet STS sleep schedule.

Flight Day 02 – Prep for Mission

- The Commander (CDR), Pilot (PLT), and Mission Specialist 2 (MS2) will collect their daily morning saliva sample in support of DSO 493 daily.
- CDR, PLT, MS1, and MS2 will log DSO 490 results daily.
- NC-2 and 3 MNVRs and BURNS will be performed in A6/ALT to conserve FWD Prop.
- The ergometer will be set up early in the day to support exercise for ISS crewmembers. Exercise is not required until the second FULL workday for STS crewmembers but will be scheduled in the afternoon.
- Checkout of two EMUs on shuttle and other EVA setup and config tasks in support of 11A will be accomplished. One of the 2 XLs will be EV2's backup suit. His primary suit, MED HUT, will be checked out on-orbit.
- The Shuttle Remote Manipulator System (SRMS) and Orbital Space Vision System (OSVS) will be checked out.
- Rendezvous prep activities including Rendezvous tools set up and checkout, Hand-Held Laser Checkout, Centerline Camera Install (P/TV19) and Orbiter Docking System (ODS) Ring Extension will be performed prior to docking with the ISS. Rendezvous burns NC-2, NPC, and NC-3 will be performed. NPC may be combined or not required.
- Sequential Still Video (SSV) will be set up, if not already from FD01.
- Status of the powered payloads will be verified.
- PAO event pre-lunch for ISS crewmembers (PLT to setup P/TV02 and support).
- The maneuver to the water dump attitude will be future loaded to allow the waste dump to begin early the next day as part of nominal Post Sleep activities.

Flight Day 03 – RNDZ

- A simo water dump will be performed as close to docking as possible to minimize the amount of wastewater dumped during the docked mission. The crew will set up the Collapsible Water Container (CWC) Condensate Collection System to collect Orbiter condensate to minimize waste dumps during the docked mission.
- The ISS crew will set up the ISS Wireless Information System (IWIS) to observe loads caused by

orbiter docking. After docking, the ISS crew will terminate IWIS operations and will later downlink the data.

- Orbiter Interface Unit (OIU) 2 will be activated.
- The ISS crew will perform an initial reading of the EVA Radiation Monitoring equipment to establish a baseline for future readings performed after EVAs.
- The EMUs will be removed from the shuttle airlock to facilitate hatch opening and transfers after docking.
- The orbiter will dock with the ISS. There are no ground site or lighting constraints for docking.
- The shuttle will maneuver the stack into a BIAS –XLV +ZVV, Torque Equilibrium Attitude (TEA). ISS will maintain attitude control during the entire docked timeframe using the Lab Control Moment Gyros (CMGs) except where maneuvers and reboosts are required.
- After docking, leak checks will be performed on the PMA and ODS, the ODS will be prepared for ingress (centerline camera will be removed and ducting will be prepared), and hatches will be opened. A short, mandatory, 25 min, ISS Safety Briefing will be given to the arriving shuttle crewmembers.
- The SRMS will be powered and uncradled.
- The PGSC network will be reconfigured from the rendezvous configuration after docking to the EVA/RMS configuration and the Portable Computer System (PCS) will be set up to support SSAS operations the following day.
- The SRMS will be powered and uncradled and P/TV22 will be performed to setup up unberth camera shots. A P1 Install Prep will check camera connectivity and views.
- One XL EMU and EVA Equipment will be transferred to ISS. EV2's MED EMU will have a short reconfig prior to all other EVA activities. The EMUs will be checked out with ISS Airlock interfaces. Rechargeable EVA Battery Assembly (REBA) batteries will be installed into the EMUs and REBA powered equipment will be verified operational on both EMUs. EVA tools will be transferred to the ISS and prepared for EVA 1 the next day. Equipment Lock (E/L) Prep will be performed to install helmet light batteries, apply antifog, and fill drink bags. Additionally, the ISS F5 cameras will be prepared (P/TV18) and the Pistol Grip Tool (PGT) will be checked out. All pertinent crewmembers will participate in an EVA 1 Procedure Review.
- Large items in the middeck, including IELKs, will be transferred to the ISS to clear space in the middeck. MS1 will have a transfer tagup with the ground prior to EVA1 Procedure Review.
- Empty CWCs will be transferred from the ISS and the STS crew will begin filling the CWCs on FD05. Three filled CWCs will be filled with technical water and transferred to the ISS. The Flash Evaporator System (FES) will be shut down after docking to save power but will be used to manage supply water quantities.
- Shuttle illuminators will remain powered overnight to support OSVS observations during the crew sleep period.

Flight Day 04 – EVA 1

- The crew will grapple the P1 with the SRMS and remove it from the orbiter payload bay. A 10 hr thermal clock begins when the truss clears the PLB sill and ends when the survival heaters are activated. Following an SRMS pitch move, the P1 truss will be handed over to the SSRMS and installed on the SSAS using an auto sequence. Prior to maneuvering to the Ready To Latch (RTL) position, STS OSVS must be complete through P1 OSVS SETUP. Second Stage Capture is required for EVA loads. No exercise is permitted during unberth and SSAS operations. EVA is given a GO to go off SCU power when two of four bolts are tight.
- Once bolting is completed, the SSRMS is no longer needed until EVA 2, so it will be maneuvered to the Lab PDGF. Once the SRMS has completed P/TV Ops, it will be stowed and powered down. Following SRMS powerdown, the SSRMS will MNVR to the MBS and be powered down in preparation for EVA 2. It will not be needed again for the docked phase. Upon undock, the MPMs will be stowed.
- The ISS Exercise EVA protocol will be used to support the EVA. The two EVA crewmembers will perform the required 10-min Cycle/Ergometer Vibration Isolation System (CVIS) exercise while breathing pure O2 to purge N2 from the EVA crewmember's blood. IV crewmembers will ingress the ISS Airlock with the two EVA crewmembers and close the Node hatch. The EVA crewmembers will continue to prebreathe pure O2 for a total of 80 min. The last 30 min of this time will include a 30-min Airlock depress to 10.2 psi. The EVA crew will then doff the O2 mask and don their EMUs. The EMUs

are then purged with pure O₂ and the Airlock will be repressurized to 14.7 psi. The Node hatch may then be opened. The EVA crewmembers will then perform a 60 min in-suit prebreathe followed by Crew Lock hatch closing, Crew Lock depress, and finally Post Depressurization where the EVA crew will go off the Service and Cooling Umbilical (SCU) and Phase Elapse Time (PET) clock starts counting. Crew Lock depress will utilize the depress pump down to 1.5 psi. At 3 psi, the Crew Lock valves will be opened to vacuum. Once Crew Lock depress is complete, EVA crewmembers will egress the Crew Lock and begin EVA setup.

- The FES will be restarted and a FES dump will be performed to maintain supply water quantities. The FES will be deactivated after the dump is complete.
- EVA 1 (PET 6:30): EVA Activities:
 - MCC will give GO after Nadir power down complete for P1/S0 Nadir Utilities. EV/IV will give GO after umbilicals are connected so MCC can powerup Nadir and powerdown Zenith. MCC will give go for IV/EV to continue with power hookups on P1/S0 Zenith.
 - Between the power hookups, the CETA cart launch locks will be removed by EV2.
 - Between the Nadir and Zenith powerup/powerdown, the Flex Hose Rotary Coupler (FHRC) (4) and Stinger (2) Spool Positioning Devices (SPDs) will be installed by EV1. A Spool Positioning Device (SPD) is like a spacer/collar that they insert just after the second QD seal without actually having to remove the QD. Planning these activities serially allows the MCC to enough time for the powerdown between Nadir and Zenith strings.
 - Drag links will be removed.
 - Node 1 WETA will be installed.
- MCC will command activation of the P1.
- When EVA clean up is complete, EVA crewmembers will ingress ISS Crew Lock and perform Pre-repress (EVA crew back on SCU and EVA complete), close the EVA hatch, and repress the Crew Lock. Post EVA procedures and EVA preparation activities for the next EVA (Battery Stowage Assembly (BSA) and REBA battery charge initiate) will be performed. Water recharge of the EMUs will be delayed until the next day.
- After the EVA is complete, the CDR will close the PRLAs.
- Sometime after the EVA is complete, the CDR will close the PRLAs.
- During crew sleep, the MCC will command preliminary checks of the WETA and TCS loop.

Flight Day 05 – Post EVA 1/Transfer

- Reboost #1, Config 4, will be performed in the biased +ZLV +XVV attitude. P/TV 25 will record dynamic affects of reboost.
- The IELKs for Expedition 6 will be installed and checked out.
- Equipment Lock Preparation, EVA Tool Config, REBA and BSA battery charging, REBA battery installation and REBA Hardware Checkout, and LiOH changeout will be performed to support EVA 2. Water Recharge of suits using PWRs will be performed.
- Transfer of N₂ from the orbiter to the Airlock High Pressure Gas Tanks (HPGT) will be initiated. N₂ transfer is performed by equalizing the higher pressure orbiter N₂ tanks with the ISS N₂ tanks.
- Logistics stowed in the shuttle middeck will be transferred to the ISS per the Transfer List.
- Shuttle midflight reconfigurations will be completed.
- The CWC Condensate bag #1 will be swapped out.
- All shuttle crewmembers will participate in a joint PAO event.
- A Shuttle supply water dump will be performed in the +YVV attitude. The PWR used to refill the EMUs after the first EVA will be dumped then refilled in addition to another PWR (old water). Additionally, two more PWRs will be dumped in preparation for refilling on FD07. Two PWR will be filled following the dumps with one to support POST EVA 2 recharging. On FD07, the last PWR will be filled and the EVA 2 PWR will be topped off.

Flight Day 06 – EVA 2

- EVA 2: PET 6:30. (See the FD04 explanation of pre and post EVA activities.) EVA-specific tasks are:
 - P1/S0 Fluid Jumper Mates
 - Starboard and Port Keel Pins
 - P1 WETA installations

- Check out the P1/P3 clamp and SSAS RTLs.
- The P1 CETA cart will be relocated outboard of the S1 CETA cart.
- The SSRMS will be stowed after the EVA is complete.

Flight Day 07 – Post EVA 2/Transfer

- Reboost #2, Config 3 for 25 min.
- Batteries will be recharged, METOX will be installed in the EMUs, EVA tools will be configured, EVA cameras will be prepared, and Equipment Lock Prep will be performed. One hr of EVA briefing in preparation for EVA the next day will be accomplished. Water Recharge of suits.
- A joint crew conference accomplished and a joint crew photo will be taken.
- Remaining transfer items in middeck will be delivered to the ISS. Return items in ISS will be taken to the orbiter and stowed.
- External still camera imagery of the ISS will be obtained (P/TV24).
- N2 transfer will be terminated and transfer equipment will be disassembled.
- A SIMO Supply/Waste dump will be performed with a condensate bag #1 dump following the Waste terminate. Full dumping is not required but this bag will be swapped with bag #2 prior to undock.

Flight Day 08 – EVA 3

- The MT will translate from WS4 to WS7. SSRMS will ungrapple Lab after grappling WS7.
- The third EVA will be performed. See the FD4 explanation of pre and post EVA activities. The EVA specific tasks are:
 - CID 7/8 close
 - RBVM SPDs (first 12 require SSRMS support, remaining 6 do not)
 - Following the first 12 SPDs, the SSRMS will walkoff the MT and onto the Lab.
 - Lab Heat Exchanger SPDs
 - P1 Pump Module
 - CID 7/8 MBSU reconfig
 - ATA Umbilical Mate
 - MT will translate back to WS4 and eventually walkoff to Lab.
 - S0 Shunt Jumpers
 - S1 Pump Module
 - S1 FHRC SPDs
- O2 transfer to the HPGT will be initiated after ISS A/L operations are complete and prior to crew sleep.

Flight Day 09 – Post EVA 3/Undock Prep

- O2 transfer will be terminated and the equipment will be stowed.
- Reboost #3, Config 3 for 1 hr.
- Final still imagery photos of the final 11A configuration will be taken.
- Remaining logistics will be transferred between the ISS and shuttle. EMU and EVA equipment is transferred. An inventory check will be performed to verify that all equipment transferred between vehicles (tools, cameras, etc..) is returned to the correct vehicle.
- RNDZ PGSCs will be setup and RNDZ tools will be checked out.
- Change of Command Ceremony will be performed prior to the Meal.
- STS crew will have off duty in afternoon.

Flight Day 10 – Undock/MEPSI

- MNVR to Undock attitude ~1 hr prior to. This is due to the undock attitude degrading the orbit.
- The FES will be restarted to assure adequate cooling during the undocking time frame.
- A final transfer tagup is planned prior to hatch closure to verify all items have been transferred.
- Shuttle prepares for undock w/ Group B Powerup and HL Audio deconfig.
- Orbiter comm will be switched to comm string 1 for standard Orbiter system verification.
- ISS and STS crew will bid farewell, close the hatch between vehicles, and perform an ODS leak check and Centerline Camera Setup.
- Undock at SS-10 min.

- Post undocking, the centerline camera, OIU and Space-to-Space Orbiter Radio (SSOR) will be deactivated.
- MEPSI will be deployed at a safe distance from ISS out of plane.
- A SIMO supply/waste water dump will be performed after MEPSI deploy.
- Any remaining crew time will be used to begin stowing the cabin.

Flight Day 11 – EOM 1/Entry Prep

- Standard day before entry shuttle activities will be performed (Flight Control System (FCS) C/O, Reaction Control System (RCS) Hot-fire, Deorbit Briefing, Landing -1 Comm check, Cabin Stow, PILOT ops, SSV Deact, Entry Video Setup, Ergometer stowed, and Ku Stow).
- Condensate bags will be dumped overboard.
- SRMS will be powered down and MPMs will be rolled in as the RMS is no longer needed for the mission.
- MS1 will assist Expedition 5 with an LES fit check.
- The PAO event will be performed.
- Comm will be switched back to Comm string 2 to support entry.
- Any remaining crew time will be used to finish stowing the cabin.
- Recumbent seats will be set up in the middeck.
- OCA Router, Proshare, and the printer will be stowed. MFX will not be setup for overnight.

Flight Day 12 – Entry

- Standard activities prior to Deorbit Prep will be performed (PGSC/color printer deactivation and stowage, Inertial Measurement Unit (IMU) align/verification, Group B powerup, GIRA stowage, Orbiter Cabin Air Cleaner (OCAC) stowage and TEPC deactivation).
- Deorbit Preparations will be performed to support landing at the Kennedy Space Center (KSC).

CUE CARD CONFIGURATION

CUE CARD
CONFIG

**CUE CARD
CONFIG**

TOP

**PILE
VELCRO**

**PILE
VELCRO**

STS-113 DAP A1 THROUGH A8 CONFIGURATIONS

	ITEM #	A1	A2	A3	A4	A5	A6	A7	A8
PRI									
ROT RATE	10(50)	0.2000	0.4000	0.2000	0.5000	0.2000	0.2000	0.2000	0.0500
ATT DB	11(51)	5.00	1.00	0.30	3.00	5.00	5.00	2.00	2.00
RATE DB	12(52)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
ROT PLS	13(53)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
COMP	14(54)	.000	.000	.000	.000	.000	.000	.000	.000
P OPTION	15(55)	ALL	ALL	ALL	ALL	ALL	TAIL	ALL	ALL
Y OPTION	16(56)	ALL	ALL	TAIL	ALL	ALL	TAIL	ALL	ALL
TRAN PLS	17(57)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
ALT									
RATE DB	18(58)	0.200	0.200	0.070	0.200	0.070	0.070	0.100	0.100
JET OPT	19(59)	ALL	ALL	ALL	ALL	ALL	TAIL	ALL	ALL
# JETS	20(60)	2	2	1	2	1	1	2	2
ON TIME	21(61)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
DELAY	22(62)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VERN									
ROT RATE	23(63)	0.2000	0.4000	0.0080	0.2000	0.0500	0.0500	0.0160	0.0500
ATT DB	24(64)	1.000	1.000	0.070	1.000	1.000	1.000	1.000	1.000
RATE DB	25(65)	.020	.020	.010	.020	.020	.020	.020	.020
ROT PLS	26(66)	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.050
COMP	27(67)	.000	.000	.000	.000	.000	.000	.000	.000
CNTL ACC	28(68)	0	0	0	0	0	0	0	0
PURPOSE		NOMINAL	PTC	GG	PRE/POST DEPLOY	LOSS OF VERN (ALL)	LOSS OF VERN (TAIL ONLY)	RNDZ	TERMINAL PHASE

FLT PLN-1a/113/O/A

HINGE

TOP
HINGED AT BOTTOM OF
'STS-113 A1 THROUGH A8 DAP CONFIGURATIONS'

HINGE

STS-113 DAP B1 THROUGH B8 CONFIGURATIONS

	ITEM #	B1	B2	B3	B4	B5	B6	B7	B8
PRI									
ROT RATE	30(50)	0.5000	0.2000	0.2000	0.2000	0.2000	0.5000	0.5000	0.0500
ATT DB	31(51)	3.00	3.00	3.00	0.30	3.00	3.00	2.00	2.00
RATE DB	32(52)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
ROT PLS	33(53)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
COMP	34(54)	.000	.000	.000	.000	.000	.000	.000	.000
P OPTION	35(55)	ALL	TAIL	ALL	TAIL	ALL	ALL	ALL	ALL
Y OPTION	36(56)	ALL	TAIL	ALL	TAIL	TAIL	ALL	ALL	ALL
TRAN PLS	37(57)	0.10	0.02	0.02	0.02	0.02	0.02	0.05	0.05
ALT									
RATE DB	38(58)	0.200	0.070	0.070	0.100	0.200	0.200	0.100	0.100
JET OPT	39(59)	ALL	TAIL	ALL	ALL	ALL	ALL	ALL	ALL
# JETS	40(60)	2	1	1	2	2	2	2	2
ON TIME	41(61)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
DELAY	42(62)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VERN									
ROT RATE	43(63)	0.2000	0.2000	0.2000	0.0080	0.0160	0.2000	0.2000	0.0500
ATT DB	44(64)	1.000	1.000	1.000	0.100	0.033	1.000	1.000	1.000
RATE DB	45(65)	.020	.020	.020	.010	.020	.020	.020	.020
ROT PLS	46(66)	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.020
COMP	47(67)	.000	.000	.000	.000	.000	.000	.000	.000
CNTL ACC	48(68)	0	0	0	0	0	0	0	0
PURPOSE		NOM OMS RCS BURNS	LOSS OF VERN (TAIL ONLY)	LOSS OF VERN (ALL)	SSUS DEPLOY	COAS/HUD CAL		RNDZ	TERMINAL PHASE

FLT PLN-1aa/113/O/A

**HOOK
VELCRO**

**HOOK
VELCRO**

TOP
BACK OF 'STS-113 A1 THROUGH A8 DAP CONFIGURATIONS'

**PILE
VELCRO**

**PILE
VELCRO**

STS-113 DAP A9 THROUGH A15 CONFIGURATIONS

	ITEM #	A9	A10	A11	A12	A13	A14	A15
PRI								
ROT RATE	10(50)	0.1300	0.0500	0.1000	0.1000	0.0500	0.0500	0.1000
ATT DB	11(51)	1.00	0.50	15.0000	5.00	2.00	5.00	40.00
RATE DB	12(52)	0.10	0.10	0.20	0.20	0.20	0.20	0.20
ROT PLS	13(53)	0.10	0.10	0.10	0.04	0.10	0.04	0.003
COMP	14(54)	.000	.000	.000	.000	.000	.000	.000
P OPTION	15(55)	TAIL	TAIL	TAIL	TAIL	ALL	TAIL	TAIL
Y OPTION	16(56)	TAIL	TAIL	TAIL	TAIL	ALL	TAIL	TAIL
TRAN PLS	17(57)	0.05	0.05	0.10	0.01	0.10	0.01	0.01
ALT								
RATE DB	18(58)	0.100	0.100	0.070	0.070	0.100	0.070	0.200
JET OPT	19(59)	TAIL	TAIL	TAIL	TAIL	ALL	TAIL	TAIL
# JETS	20(60)	2	2	3	3	2	3	2
ON TIME	21(61)	0.08	0.08	0.08	0.08	0.08	0.08	0.08
DELAY	22(62)	0.00	0.00	12.00	11.04	0.00	11.04	0.00
VERN								
ROT RATE	23(63)	0.1300	0.0500	0.1000	0.1000	0.1000	0.0500	0.0200
ATT DB	24(64)	1.000	0.500	5.000	3.000	3.000	5.000	5.000
RATE DB	25(65)	.020	.020	.050	.050	.080	.050	.050
ROT PLS	26(66)	0.050	0.050	0.010	0.002	0.002	0.002	0.001
COMP	27(67)	.000	.000	.000	.000	.000	.000	.000
CNTL ACC	28(68)	0	0	1,2,5,6***	1,5*	7,8****	1-6**	7
PURPOSE		PROX OPS/ FLYAROUND	DOCKING	AUTO REBOOST	MATED MNVRS & HOLD (VRCS)	SHUTTLE A/L DEPRESS ATT CNTL (VRCS ONLY)	SRMS/SSRMS P1 INSTALL	

BOLD-ITALIC indicate a change from the I-load

*1 Pre P1 Install, 5 Post P1 Install

**1,3,5 for VERN during Install, 2,4,6 for ALT during Install

***1 (CONFIG 3) or 2 (CONFIG 3) Pre P1 Install, 5 (CONFIGS 3&4) or 6 (CONFIGS 1&2) Post P1 Install

****7 Pre P1 Install, 8 Post P1 Install

FLT PLN-1b/113/O/B

HINGE

TOP
 BACK OF 'STS-113 B1 THROUGH B8 DAP CONFIGURATIONS'
 HINGED AT BOTTOM OF
 'STS-113 A8 THROUGH A 15 DAP CONFIGURATIONS'

HINGE

STS-113 B9 THROUGH B15 DAP CONFIGURATIONS

	ITEM #	B9	B10	B11	B12	B13	B14	B15
PRI								
ROT RATE	30(50)	0.1300	0.0500	0.5000	0.1000	0.5000	0.5000	0.1000
ATT DB	31(51)	1.00	0.50	3.00	5.00	3.00	3.00	40.00
RATE DB	32(52)	0.10	0.10	0.20	0.20	0.20	0.20	0.200
ROT PLS	33(53)	0.04	0.04	0.04	0.04	0.04	0.04	0.003
COMP	34(54)	.000	.000	.000	.000	.000	.000	.000
P OPTION	35(55)	TAIL	TAIL	ALL	TAIL	ALL	ALL	TAIL
Y OPTION	36(56)	TAIL	TAIL	ALL	TAIL	ALL	ALL	TAIL
TRAN PLS	37(57)	0.01	0.01	0.02	0.01	0.02	0.02	0.01
ALT								
RATE DB	38(58)	0.100	0.100	0.200	0.070	0.200	0.200	0.200
JET OPT	39(59)	TAIL	TAIL	ALL	TAIL	ALL	ALL	TAIL
# JETS	40(60)	2	2	2	3	2	2	2
ON TIME	41(61)	0.08	0.08	0.08	0.08	0.08	0.08	0.08
DELAY	42(62)	0.00	0.00	0.00	11.04	0.00	0.00	0.00
VERN								
ROT RATE	43(63)	0.1300	0.0500	0.2000	0.1000	0.2000	0.2000	0.0200
ATT DB	44(64)	1.000	0.500	1.000	3.000	1.000	1.000	5.000
RATE DB	45(65)	.020	.020	.020	.050	.020	.020	.050
ROT PLS	46(66)	0.020	0.020	0.002	0.002	0.002	0.002	0.001
COMP	47(67)	.000	.000	.000	.000	.000	.000	.000
CNTL ACC	48(68)	0	0	0	2,6*	0	0	7
PURPOSE		PROX OPS/ FLYAROUND	DOCKING		MATED MNVRS & HOLD (PRCS)			

BOLD-ITALIC indicate a change from I-load
 *2 Pre P1 Install, 6 Post P1 Install

FLT PLN-1bb/113/O/B

**HOOK
VELCRO**

**HOOK
VELCRO**

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FLIGHT DATA FILE
Distribution
113 FLT PLN FS FIN

** JSC **

AP/LEAD PAO
CB/CHIEF, ASTRONAUT OFF.
CB/FLIGHT CREW (7)
DA8/LEAD ISS FD (4)
DA8/LEAD STS FD (4)
DA82/ACTION CENTER
DA83/MOD LIB UPDATE TASK (4)
DF22/LEAD DPS (3)
DF23/LEAD CATO (3)
DF24/INCO FDF REP (3)
DF25/LEAD ODIN (3)
DF52/LEAD MMACS (3)
DF53/LEAD OSO (3)
DF62/LEAD GNC (3)
DF63/LEAD PROP (3)
DF64/ADCO (3)
DF73/LEAD EGIL (3)
DF82/LEAD BECOM (3)
DF83/LEAD ECLSS (3)
DF84/LEAD THOR (3)
DM3/LEAD RNDZ (3)
DM3/LEAD TOPO (3)
DM32/LEAD FDO (3)
DO13/HSG-H LIBRARY (3)
DO13/HSG-M LIBRARY (3)
DO13/HSG-MTLO
DO13/MSR LIBRARY (2)
DO13/TTI LIBRARY (2)
DO35/JONES, S.P.
DO353/PDF MNGR/RESERVE (25)
DO4/FAO TEAM (20)
DO4/LEAD FAO
DO4/LEAD OPS PLANNER (6)
DO4/NUTE, R.H.
DO4/POINTING (3)
DO4/SHUTTLE FLT PLANNING (3)
DO45/HORD, D.G.
DO5/LEAD ACO/PLO (15)
DT32/TEAM LEAD
DT34/CONTROL PROP
DT35/DPS/NAV LIBRARY (3)
DT36/SHUTTLE SYSTEMS
DT37/SHUTTLE COMMUNICATIONS (2)

DT37A/PAYLOAD TRAINING GROUP (5)
DX22/LEAD PDRS (4)
DX22/LEAD ROBO (3)
DX25/RMS TRAINING GROUP (3)
DX32/LEAD EVA (3)
DX32/PERSON, S.
DX34/PHOTO/TV
GP23/STIC (3)
MER/30 LIBRARY
MT3/IPT
NC62/MORAN, S.
OM2/CONSOLE SUPPORT (2)
OV/LEAD ISS GC
OV/LEAD SHUTTLE GC
SD2/COLEMAN, S. (3)
SK-KI/LEE, L. (2)
ZRI/USAF TECHNICAL LIBRARY (3)

** JSC OFFSITE **

BOEING-HOUSTON
13100 SPACE CENTER BLVD.
HOUSTON, TX 77059
HS-22/FLIGHT/STAGE MANAGER
HS-22/OPERATIONS LEAD
HS3-30/PHILLIPS, S.L.

** POUCH MAIL **

NASA KSC
KSC/KSC TECH LIBRARY-D (2)
TA-E-A/CREW QUARTERS
XA-E1/GRINTER, K.

** U.S. MAIL **

BOEING-HUNTINGTON BEACH
5301 BOLSA AVENUE
HUNTINGTON BEACH, CA 92647
H019-F754/GOOSSENS, M.H.

BOEING-CALIFORNIA
5301 BOLSA AVE. BLDG 17-7
7D-45 HUNTINGTON BEACH
CA 92647-2099
H017-D415/MUHAR, M.M.
H017-D416/GARAY, L.
H017-D307/WARD, J.
H019-E7522/FERGUS, E.M.

HAMILTON STANDARD
BRADLEY FIELD RD.
WINDSOR LOCKS, CT 06096
1A-2-X65/AUMAN, J.

=====
Total 216
(09/30/02 - FERNANCA)

NOTE
* FOR CHANGES *
* IN DISTRIBUTION *
* OR ADDRESS CORRECTIONS *
* CONTACT THE *
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