

FLIGHT DATA FILE

Flight Plan

STS-97

(STS-97 FRR Cycle Trajectory)

Mission Operations Directorate Operations Division

A working (unofficial) copy is available through the
Internet at URL:
<https://mod.jsc.nasa.gov/do4/flightplan/fp.cfm?id=97>

Final November 3, 2000

Major Event	MET		Central		DMT
Launch	00/00:00	Thu	11/30/00 21:01	Fri	12/01/00 06:01
ISS Docking	01/16:48	Sat	12/02/00 13:49	Sat	12/02/00 22:49
RMS MVR P6	01/18:35	Sat	12/02/00 15:36	Sun	12/03/00 00:36
PMA 3 Open	01/19:20	Sat	12/02/00 16:21	Sun	12/03/00 01:21
EVA1 Start	02/15:45	Sun	12/03/00 12:46	Sun	12/03/00 21:46
P6 Install	02/16:30	Sun	12/03/00 13:31	Sun	12/03/00 22:31
SA Deploy	02/21:35	Sun	12/03/00 15:36	Mon	12/04/00 00:36
Radiator Deploy	03/00:05	Sun	12/03/00 21:06	Mon	12/04/00 06:06
EVA2 Start	04/15:45	Tue	12/05/00 12:46	Tue	12/05/00 21:46
Hatch Open	05/15:00	Wed	12/06/00 12:01	Wed	12/06/00 21:01
Hatch Close	06/22:30	Thu	12/07/00 19:31	Fri	12/08/00 04:31
Undock	07/15:13	Fri	12/08/00 12:14	Fri	12/08/00 21:14
Deorbit TIG	09/19:36	Sun	12/10/00 16:37	Mon	12/11/00 01:37
KSC Landing	09/20:41	Sun	12/10/00 17:42	Mon	12/11/00 02:42

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas



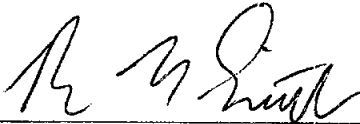
Verify this is the correct version for the pending operation (training, simulation or flight).
Electronic copies of FDF books are available. URL: <http://fltproc.jsc.nasa.gov/dfd>

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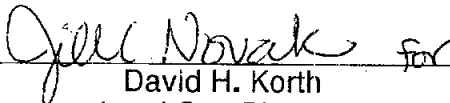
STS-97 FLIGHT PLAN

FINAL
November 3, 2000

PREPARED BY:

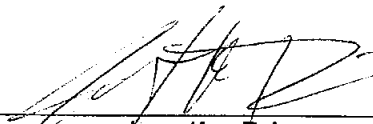


Roger M. Smith
Book Manager/Lead Flight Activities Officer

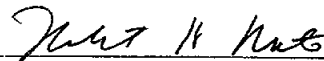


David H. Korth
Lead Ops Planner

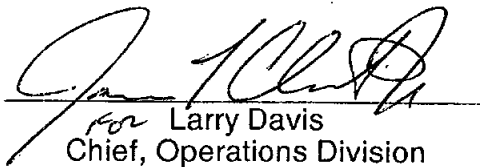
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Incorporates the following:
482#: FLT PLAN-1965A FLT PLAN-1966
Exception #: 97-1, 97-2

AREAS OF TECHNICAL RESPONSIBILITY

Book Manager/Lead FAO	DO4/R. Smith	281-244-1166
Lead Timeliner	DO4/K. Kilpatrick	281-244-5797
Lead Pointer	DO4/B. Kelly	281-244-1141
Lead Ops Planner	DO4/D. Korth	281-244-1115
Lead RPE	DO4/J. Novak	281-244-1106

FLIGHT PLAN
STS-97

LIST OF EFFECTIVE PAGES

FINAL 11/03/00

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STS-97 FLIGHT PLAN FABRICATED ITEMS

<u>Title</u>	<u>Ref. Page</u>	<u>Item No.</u>
STS-97 DAP A1 – A8 CONFIGURATIONS (FRONT TOP)	CC 8-2	FLT PLN-1a/97/O/B
STS-97 DAP B1 – B8 CONFIGURATIONS (FRONT BOTTOM)	CC 8-3	FLT PLN-1aa/97/O/B
STS-97 DAP A9 – A15 CONFIGURATIONS (BACK TOP)	CC 8-4	FLT PLN-1b/97/O/B
STS-97 DAP B9 – B15 CONFIGURATIONS (BACK BOTTOM)	CC 8-5	FLT PLN-1bb/97/O/B

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INTRODUCTION

The STS-97 Flight Plan is the Flight Data File article that contains the on-orbit timeline. It does not contain the detailed timelines that are covered in the Ascent, Post Insertion, Deorbit Prep, and Entry Checklists. The detailed rendezvous and undocking timelines and procedures are contained in the Rendezvous Checklist. The detailed EVA task timelines and procedures are in the EVA Checklist. These EVA task timelines and procedures are called out from the Flight Plan detailed timeline, which is the controlling document during EVAs.

The format of the summary and detailed timelines includes data bands for Mission Control Center. This data band reflects activities and commands executed by the Houston and Moscow control centers and any voice communication required to support specific events.

This on-orbit timeline satisfies the objectives specified in the Flight Definition and Requirements Directive, and the requirements of the STS-97 Flight Requirements Document.

The STS-97 Planning Groundrules and Constraints (GR&Cs), which are part of the Increment 1 Planning GR&Cs, have been used in the development of this Flight Plan. These GR&Cs can be found at the following:

<https://mod.jsc.nasa.gov/do4/GroundRules/Main/gfiframe.cfm?id=97>

The flight profile used for this Flight Plan is for a launch date of November 30, 2000, at 21:01 CST. Orbiter inertial attitudes are expressed relative to a mean of 1950 (M50) reference frame.

NSTS-37326, Shuttle Crew Scheduling Constraints (SCSC), Rev A, July 2000, has been used to build the timelines contained in this Flight Plan.

The following SCSC Exceptions are in review for STS-97: 97-1, 97-2

The Flight Plan timeline pages, as well as other flight planning information, are available on the Space Shuttle Flight Planning web page at the following address:

<https://mod.jsc.nasa.gov/do4/flightplan/fp.cfm?id=97>

OVERVIEW TIMELINE

STS-97 OVERVIEW (GMT 03:00 Dec.1, 2000)

GMT	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	1	2	3		
MET	0/0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
STS			PI					SLEEP									RMS C/O, EMU C/O, 10.2 DEP										
ISS				SLEEP (8.5 Hr)											PROGRESS DEP												
MET	1/0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
STS					SLEEP (7 Hr)									RNDZ		DOCK		DTO 257		P6 REMOVAL		PMA3 ING/EGR					
ISS				SLEEP (8.5 Hr)																	MEAL						
MET	2/0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
STS					SLEEP									EVA PREP		P6 INST/EVA 1							SA DEPLOY				
ISS				SLEEP (8.5 Hr)											IWIS SETUP						MEAL						
MET	3/0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
STS					SLEEP									EVA TOOL CONFIG					MEAL		OFF DUTY						
ISS				SLEEP (8.5 Hr)																	MEAL						
MET	4/0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
STS					SLEEP									EVA PREP		EVA 2							POST EVA				
ISS				SLEEP (8.5 Hr)											PP RECONFIG						MEAL						
MET	5/0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
STS					SLEEP									HATCH		JOINT OPS		MEAL		JOINT OPS							
ISS				SLEEP (8.5 Hr)												NODE INGR	OPEN	UOP INST; CBCS S/U		MEAL		IWIS C/O					
MET	6/0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
STS					SLEEP									DTO 261		JOINT OPS		MEAL		JOINT OPS		HATCH					
ISS				SLEEP (8.5 Hr)												DTO 261		JOINT OPS		MEAL		JOINT OPS		CLOSE			
MET	7/0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
STS					SLEEP									UNDOCK									MEAL		OFF DUTY		
ISS				SLEEP (8.5 Hr)											UNDOCK									MEAL		OFF DUTY	
MET	8/0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
STS					SLEEP									FCS C/O									MEAL		CABIN STOW		
MET	9/0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
STS					SLEEP																Deorbit Prep		MEAL		OFF DUTY		

↑KSC LANDING(09/20:41)

SUMMARY TIMELINE

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STS-97 (FD01)

GMT 12/01/00 000/06
 FD1 Day 000
 MET 04 05 06 07 08 09 10 11 12 13 14 15
 01 02 03 04 05 06 07 08 09 10 11 12

S T S	CDR	D I R E C T I O N	P I N S E R T	- Z Y L V	POST INSERTION	PRE SLEEP	NC1 O M S B U R N	- Z L V	P S L E E P	PRE SLEEP	SLEEP
	B. JETT										
	R M S		PLT	P I N S E R T	- Z Y L V	POST INSERTION	PRE SLEEP	O M S B U R N	G R P B P / D	P R E S L E E P	SLEEP
M. B L O O M F I E L D											
I R V - A 2	MS2	A U N C H E R T I O N	0 M S	P L B D O P	POST INSERTION	PRE SLEEP					SLEEP
	M. GARNEAU										
	E V A		MS1	P L B D O P	POST INSERTION	PRE SLEEP					SLEEP
J. TANNER											
E V A	MS3	I N S E R T I O N	2	P L B D O P	POST INSERTION	PRE SLEEP					SLEEP
	C. NORIEGA										
	SWIS D/L										
M X C	SHELL WARM										
I S S	SHEPHERD			ISS OPS	DAR	PRE SLEEP				SLEEP	
	GIDZENKO			ISS OPS	DAR	PRE SLEEP				SLEEP	
	KRIKALEV			ISS OPS	DAR	PRE SLEEP				SLEEP	
	DAY/NIGHT										
	ORBIT										
	TDRS										
	ORB ATT			ASCENT		-ZLV +YVV		NC1		-ZLV -XVV	
	NOTES:			8 ODS SYS SETUP FOR INGRESS							

STS-97 (FD02)

GMT		12/01/00		16		17		18		19		20		21		22		23		12/02		01		02		03					
FD1		Day 000		13		14		15		16		17		18		19		20		21		22		23		001/00					
MET		Day 000		FD2																											
STS	CDR	SLEEP	POST SLEEP	ERGO METER S/U	EPLERKON	OMS BURN	ZXLVV	EXERCISE	APUC/O	PLB SVY	RNDZ PGSC S/U	MEAL	RCS BURN	NPC Δ	+ZYLVV	WDAMP	RNDZ TOOLS C/O	DMPTR	102PRE	10.2 DEPRS	10-2CF	C/L CMR MNT	PSA								
	B. JETT																														
RMS	PLT	SLEEP	POST SLEEP	EPLERKON	OMS BURN	RMS C/O	PLB SURVEY	H2O FILL S/U	MEAL	HT2ORM	RCS BURN	FOSVSPU	OSVS C/O	RMS PD	EXERCISE	H2O 2 INIT	PSLDRICO														
	M. BLOOMFIELD																														
IRV-A2	MS2	SLEEP	POST SLEEP	POST SLEEP	FILTER CLEAN	RMS PU	RMS C/O	PLB SURVEY	P/TV 06 S/U*	EMU 1,3 C/O	MEAL	OSVSPU	OSVS C/O	RMS PD	CSREYNOR 02	PS/TU VWS	P/TV18 WVS C/O	EXERCISE													
	M. GARNEAU																														
EVA	MS1	SLEEP	POST SLEEP	TACCEPT	EXERCISE	A/L PREP	PLB SVY	EMU 1,3 C/O	MEAL	EMU SWAP (3 FOR 2)	EMU 2 C/O	SAFER C/O	P/TV18 WVS C/O	EVA#1 TOOL CONFIG	HT2ORM																
	J. TANNER																														
EVA	MS3	SLEEP	POST SLEEP	PGSC NETWORK S/U*	SWIS SETUP	A/L PREP	PLB SVY	EXERCISE	EMU 1,3 C/O	MEAL	EMU SWAP (3 FOR 2)	EMU 2 C/O	SAFER C/O	P/TV18 EVA CMR S/U	EVA#1 TOOL CONFIG																
	C. NORIEGA																														
MCC	SWIS D/L			SHELL WARM		SHELL WARM		SWIS		SHELL WARM		SWIS		SHELL WARM		SWIS		SHELL WARM		SWIS		SHELL WARM									
	SHELL WARM																														
ISS	SHEPHERD	SLEEP	POST SLEEP	CTR/WU	DPC	EXERCISE	IPSA	%PROGRESS DEPARTS	MEAL																						
	GIDZENKO	SLEEP	POST SLEEP	CTR/WU	DPC	PTV SU	IPSA	EXERCISE	%PROGRESS DEPARTS	MEAL	EXERCISE																				
	KRIKALEV	SLEEP	POST SLEEP	CTR/WU	DPC	EXERCISE	IPSA	%PROGRESS DEPARTS	MEAL	EXERCISE																					
DAY/NIGHT ORBIT				9		10		11		12		13		14		15		16		17											
TDRS E W																															
ORB ATT				-ZLV -XVV		NC2		-ZLV -XVV		NPC		-ZLV +YVV																			
NOTES:						* W/LOCKER STOW UPDATE		*SSV				*PROGRESS DEPARTS(0/19:45)																EXERCIS			

STS-97 (FD02)

GMT 12/02/00 04 05 06 07 08 09 10 11 12 13 14 15
 FD2 001/00 01 02 03 04 05 06 07 08 09 10 11 12
 MET Day 001

S T S	CDR	PRE SLP	NC3 Δ OMS BURN	-ZLVV -XVZUP	RTA DZUP PMC	PRE SLEEP	SLEEP (7.0)	POST SLEEP	GP R P U B	ISS RNDZ
	B. JETT									
R M S	PLT	LDRI CO	OMS BURN	RNDZ TAGUP		PRE SLEEP	SLEEP (7.0)	POST SLEEP	1 0 2	ISS RNDZ
	M. BLOOMFIELD									
I R V - A 2	MS2	REIX NTGN	PRE SLEEP	RNDZ TAGUP		PRE SLEEP	SLEEP (7.0)	POST SLEEP	H2O 3 INIT	XFER PREP
	M. GARNEAU									
E V A	MS1	REIX NTGN	PRE SLEEP	RNDZ TAGUP		PRE SLEEP	SLEEP (7.0)	POST SLEEP	MDDK PREP	A B U A X T *
	J. TANNER									
	MS3		PRE SLEEP	RNDZ TAGUP		PRE SLEEP	SLEEP (7.0)	POST SLEEP	MDDK PREP	R P D G S C
C. NORIEGA										

M C C	SWIS D/L	SWIS	SWIS	SWIS	SWIS	SWIS	SWIS	SWIS	SWIS	SHELL
	SHELL WARM SM FGB FULL CHG*			SHELL WARM		SHELL WARM		ISM FGB FULL CHG*		

I S S	SHEPHERD	EXERCISE		DAR	PRE SLEEP	SLEEP
	GIDZENKO			DAR	PRE SLEEP	SLEEP
	KRIKALEV			DAR	PRE SLEEP	SLEEP

DAY/NIGHT										
ORBIT	17	18	19	20	21	22	23	24	25	
TDRS	E									
ORB ATT	NC3									

NOTES: *INHIBIT BATT CYCLING *CHG INIT

STS-97 (FD03)

GMT 12/02/00 16 17 18 19 20 21 22 23 12/03 01 02 03
 FD3 12 13 14 15 16 17 18 19 20 21 22 23 002/00
 MET Day 001

STS	CDR B. JETT	NR	NC4	ISS RNDZ		T1		RBAR APPROACH TIMELINE		XPOP	GP R/PD	DTO 257	P/TV21 OPS P6 UNBR	PCS S/U	VTR P/B	PRE SLEEP	EVA BRIEF	EXERCISE	PRE SLEEP				
	PLT M. BLOOMFIELD			ISS RNDZ								DTO 257	RMS MVR P6	ICOB 02	VTR ACT	EXERCISE	EVA BRIEF	PRE SLEEP	DM U M V P R E I				
	MS2 M. GARNEAU	XPRFRP	VSHFTUP	HT20	P/TV S/U	ISS RNDZ				RPMW SUP	GP R/PD	P/TV21 S/U P6 UNBR	RMS MVR P6	EXERCISE			EVA BRIEF	PRE SLEEP	EMU INSTL	OP SVS			
	MS1 J. TANNER	A	ICBC S/U	AUCBDIO	AUXBAT CHG TRM	ERMU L	P/TV20 OPS DK/UNDK				HATCH LEAK CHECK	ODS PREP INGRS	ODS VEST/PMA PRESS	EI AN RGLRYS	CLS ODS VST	ODS VEST LEAK CHECK	EI AN RGLRYS	GND STRP	XOFPESR	EARLY PMA3 EGRESS	EVA BRIEF	PGSC RCFG	EXERCISE
	MS3 C. NORIEGA	RPDZSC	EXERCISE		ERMU L	ISS PCS U/D	ISS RNDZ				HATCH LEAK CHECK	ODS PREP INGRS	ODS VEST/PMA PRESS	EI AN RGLRYS	CLS ODS VST	ODS VEST LEAK CHECK	EI AN RGLRYS	XFER OPS	EARLY PMA3 EGRESS	EVA BRIEF	PGSC RCFG	EMU INSTL	Z1 RSU NW

DOCKING

MCC	UB-1*	ISS SYS*		ISS SYS*		ISS SYS*	
	ISS SYS*	SHELL WARM		SHELL WARM		SHELL WARM	
	MDM*	MDM*		MDM*		MDM*	
	ACS	ACS		ACS		ACS	
	SM NAV LT	SM NAV LT		SM NAV LT		SM NAV LT	
STS/ISS DOCK SCRIPT	STS/ISS DOCK SCRIPT		STS/ISS DOCK SCRIPT		STS/ISS DOCK SCRIPT		
SA FTHR	SA FTHR		SA FTHR		SA FTHR		
SUN TRK	SUN TRK		SUN TRK		SUN TRK		
HATCH LEAK CHECK	HATCH LEAK CHECK		HATCH LEAK CHECK		HATCH LEAK CHECK		

ISS	SHEPHERD	POST SLEEP	CRWDPC T/U	EXERCISE	VHF	MEAL	EXERCISE
	GIDZENKO	POST SLEEP	CRWDPC T/U	EXERCISE	ACS	MEAL	EXERCISE
	KRIKALEV	POST SLEEP	CRWDPC T/U	EXERCISE		MEAL	EXERCISE

DAY/NIGHT	25		26		27		28		29		30		31		32	
ORBIT	14		15		16		1		2		3		4		5	
DAILY ORBIT	14		15		16		1		2		3		4		5	
TDRS	E		W		E		W		E		W		E		W	
RUS GND	ORB ATT		RNDZ		FD		FD		FD		FD		BIAS -XPH +ZNN		PRE SLI	

NOTES: AAUX BAT* *CHG INIT *OFF *POWERDOWN *MDM CONFIG DOCK *ACS PRE-ARRIVAL MODE *MDM CONFIG ARRIVAL *ACS ARRIVAL MODE *MDM CONFIG POST DOCK *ACS POST ARRIVAL *P6 Park *XFER STATUS *POWERUP

1/16:48

STS-97 (FD03)

GMT		12/03/00		04		05		06		07		08		09		10		11		12		13		14		15			
FD3		002/00		01		02		03		04		05		06		07		08		09		10		11		12			
MET		Day 002																											
S T S	CDR	PRE SLEEP	D M P T R M	X P O P	PRE SLEEP	PMC	PRE SLEEP											POST SLEEP											
	B. JETT																												
R M S	PLT	CWC COND S/U & FILL	PRE SLEEP														POST SLEEP												
	M. BLOOMFIELD																												
I V A	MS2	PRE SLEEP														POST SLEEP													
	M. GARNEAU																												
E V A	MS1	PRE SLEEP														POST SLEEP													
	J. TANNER																												
	MS3	PRE SLP	Z1 RSU NW	PRE SLEEP														POST SLEEP											
	C. NORIEGA							OSVS																					
SWIS D/L		SWIS		SWIS		SWIS		SWIS		SWIS		SWIS		SWIS		SWIS		SWIS		SWIS		SWIS		SWIS		SWIS			
M C C																													
I S S	SHEPHERD		DAR	PRE SLEEP														POST SLEEP											
	GIDZENKO		DAR	PRE SLEEP														POST SLEEP											
	KRIKALEV		DAR	PRE SLEEP														POST SLEEP											
DAY/NIGHT																													
ORBIT		33		34		35		36		37		38		39		40													
DAILY ORBIT		6		7		8		9		10		11		12		13													
TDRS	E																												
	W																												
ORB/ISS ATT		XPOP MPA																											
NOTES:		•EXERCISE																											

STS-97 (FD04)

GMT 12/03/00 16 17 18 19 20 21 22 23 12/04 01 02 03
 FD4 MET Day 002 12 13 14 15 16 17 18 19 20 21 22 23 003/00

S T S	CDR	POST SLEEP	10:2 MN EVA PREP	IPNA HDREP	EMU PRGE, P/B	EVA 1 SUPPORT			P6 UTL PD	P6 PVCU ACT	EXERCISE	2B BGA ACT& SAW DPLY		4B BGA ACT& SAW DPLY	PRE SLEEP		
	B. JETT																
R M S	PLT	POST SLEEP	P/TV23 S/U EVA	RMS P6 TO P/MATE PO	OS SPT S		RMS P/TV EVA SUPPORT	P6 - R T L	RMS EVA SPT P6 INSTL	P6 PVCU ACT	P/TV23 OPS & Z1 CNCT	RMS P/TV EVA SUPPORT		P/TV 25 OPS SA/PV DP	SVI WEW	10: 2 MN	P/TV25 OPS SA/PVR
	M. BLOOMFIELD																
I V A	MS2	POST SLEEP	P/TV23 S/U EVA	RMS P6 TO P/MATE PO	OS SPT S	EMU PRGE, P/B	EVA 1 SUPPORT	P6 - R T L	RMS EVA SPT P6 INSTL	EVA 1 SUPPORT (06:30)					P-EVA W/ H2O RCH	R P M W S R D N	
	M. GARNEAU																
E V A	MS1	POST SLEEP	EVA PREP		EMU PRGE, P/B	A/L DEPR	SORTI S/U	ATTACH P6 TO Z1	REL STBD SABB RSTR	REL PORT SABB RSTR	PRT B/G RSTR	UP NO SR TT OB WB	PHOTO DOC	SC OL RE TA IN EU P	A L R P R	POST EVA W/ H2O RCH	
	J. TANNER EVA1																
E V A	MS3	POST SLEEP	EVA PREP		EMU PRGE, P/B	A/L DEPR	SORTI S/U	ATTACH P6 TO Z1	CNNCT P6 TO Z1 P/D/U	REL STBD B/G RSTR	ROT KEEL PIN	US NT SB TD OB WB	REL PVR C&W	PHO TO C T O	SC OL RE TA IN EU P	A L R P R	POST EVA W/ H2O RCH
	C. NORIEGA EVA2																

C C M	INHB PAD	SWIS														
	P6 UTL PD	SWIS														
C C M	P6 PVCU ACT	SWIS														
	4B ACT	SWIS														
C C M	2B ACT	SWIS														
	4B SSU ACT	SWIS														
C C M	2B SSU ACT	SWIS														
	2B BGA ACT& SAW DPLY	SWIS														
C C M	4B BGA ACT& SAW DPLY	SWIS														
	PPS-PVTC-S-ACT	SWIS														

I S S	SHEPHERD	POST SLEEP	CT R/ W U	DPC	EXERCISE	MEAL			BGA SAW DEPLOY MON					
	GIDZENKO	POST SLEEP	CT R/ W U	DPC	MEAL			EXERCISE						
	KRIKALEV	POST SLEEP	CT R/ W U	DPC	EXERCISE	MEAL								

DAY/NIGHT	40	41	42	43	44	45	46	47	48
ORBIT	13	14	15	1	2	3	4	5	6
DAILY ORBIT									
TDRS	E								
ORB/ISS ATT		DUMP	FD	XPOP MPA	FD	XPOP MPA	FD	FD	

NOTES:

V PVR DF
 O PVR DF
 * PVR DP

STS-97 (FD04)

GMT		12/04/00		04		05		06		07		08		09		10		11		12		13		14		15	
FD4		003/00		01		02		03		04		05		06		07		08		09		10		11		12	
MET		Day 003																									
S T S	CDR	P D V R L Y	X P O P	PRE SLEEP		PMC PRE SLEEP		SLEEP										POST SLEEP									
	B. JETT																										
R M S	PLT	*	PRE SLEEP		SLEEP										POST SLEEP												
	M. BLOOMFIELD																										
I V A	MS2	P D V R L Y	X P O P	PRE SLEEP		SLEEP										POST SLEEP											
	M. GARNEAU																										
E V A	MS1	E M U L I O H C / O	E M U L I O H C / O	PRE SLEEP		SLEEP										POST SLEEP											
	J. TANNER																										
E V A	MS3	E M U L I O H C / O	E M U L I O H C / O	PRE SLEEP		SLEEP										POST SLEEP											
	C. NORIEGA																										
SWIS D/L				SWIS		SWIS		SWIS		SWIS		SWIS		SWIS		SWIS		SWIS		SWIS		SWIS		SWIS		SWIS	
M C	4B POS BGA BATT CHG			4B POS BGA BATT CHG																							
	2B POS BGA BATT CHG			2B POS BGA BATT CHG																							
	4B BCDU BATT C/O			4B BCDU BATT C/O																							
	2B BCDU BATT C/O			2B BCDU BATT C/O																							
	4B,2B BAT THERM			4B,2B BAT THERM																							
	4B BAT THRM COND			4B BAT THRM COND																							
	2B BAT THRM COND			2B BAT THRM COND																							
	4B,2B BAT CHG			4B,2B BAT CHG																							
4B BAT CHG			4B BAT CHG																								
2B BAT CHG			2B BAT CHG																								
I S S	SHEPHERD	⊕		DAR	PRE SLEEP		SLEEP										POST SLEEP										
	GIDZENKO			DAR	PRE SLEEP		SLEEP										POST SLEEP										
	KRIKALEV			DAR	PRE SLEEP		SLEEP										POST SLEEP										
DAY/NIGHT																											
ORBIT		48		49		50		51		52		53		54		55		56									
DAILY ORBIT		6		7		8		9		10		11		12		13		14									
TDRS		E		W																							
ORB/ISS ATT																											
NOTES:		*P/TV25 OPS SA/PVR		⊕PVR DPLY		*INIT																					

4B BAT
2B BAT

STS-97 (FD05)

GMT		12/04/00		16		17		18		19		20		21		22		23		12/05		01		02		03	
FD5		12		13		14		15		16		17		18		19		20		21		22		23		004/00	
MET		Day 003																									
S T S	CDR B. JETT	POST SLEEP		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE	
	PLT M. BLOOMFIELD	POST SLEEP		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE	
I V A	MS2 M. GARNEAU	POST SLEEP		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE	
	MS1 J. TANNER	POST SLEEP		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE	
E V A	MS3 C. NORIEGA	POST SLEEP		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE	
	MS1 J. TANNER	POST SLEEP		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE	
SWIS D/L		SWIS		SWIS		SWIS		SWIS		SWIS		SWIS		SWIS		SWIS		SWIS		SWIS		SWIS		SWIS		SWIS	
M C C	4B BAT CHG	4B BAT CHG		4B BAT CHG		4B BAT CHG		4B BAT CHG		4B BAT CHG		4B BAT CHG		4B BAT CHG		4B BAT CHG		4B BAT CHG		4B BAT CHG		4B BAT CHG		4B BAT CHG		4B BAT CHG	
	2B BAT CHG	2B BAT CHG		2B BAT CHG		2B BAT CHG		2B BAT CHG		2B BAT CHG		2B BAT CHG		2B BAT CHG		2B BAT CHG		2B BAT CHG		2B BAT CHG		2B BAT CHG		2B BAT CHG		2B BAT CHG	
CONFIG P6 EPS		CONFIG P6 EPS		CONFIG P6 EPS		CONFIG P6 EPS		CONFIG P6 EPS		CONFIG P6 EPS		CONFIG P6 EPS		CONFIG P6 EPS		CONFIG P6 EPS		CONFIG P6 EPS		CONFIG P6 EPS		CONFIG P6 EPS		CONFIG P6 EPS		CONFIG P6 EPS	
FMT DATA LOAD		FMT DATA LOAD		FMT DATA LOAD		FMT DATA LOAD		FMT DATA LOAD		FMT DATA LOAD		FMT DATA LOAD		FMT DATA LOAD		FMT DATA LOAD		FMT DATA LOAD		FMT DATA LOAD		FMT DATA LOAD		FMT DATA LOAD		FMT DATA LOAD	
I S S	SHEPHERD	POST SLEEP		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE	
	GIDZENKO	POST SLEEP		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE	
	KRIKALEV	POST SLEEP		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE		EXERCISE	
DAY/NIGHT		ORBIT		DAILY ORBIT		DAILY ORBIT		DAILY ORBIT		DAILY ORBIT		DAILY ORBIT		DAILY ORBIT		DAILY ORBIT		DAILY ORBIT		DAILY ORBIT		DAILY ORBIT		DAILY ORBIT		DAILY ORBIT	
TDRS		ORB/ISS ATT		ORB/ISS ATT		ORB/ISS ATT		ORB/ISS ATT		ORB/ISS ATT		ORB/ISS ATT		ORB/ISS ATT		ORB/ISS ATT		ORB/ISS ATT		ORB/ISS ATT		ORB/ISS ATT		ORB/ISS ATT		ORB/ISS ATT	
NOTES:																											

STS-97 (FD05)

GMT 12/05/00 04 05 06 07 08 09 10 11 12 13 14 15
 FD5 004/00 01 02 03 04 05 06 07 08 09 10 11 12
 MET Day 004

S T S	CDR	PRE SLEEP	PMC	PRE SLEEP	SLEEP						POST SLEEP
	B. JETT										
R M S	PLT	PRE SLEEP			SLEEP						POST SLEEP
	M. BLOOMFIELD										
I V A	MS2	PRE SLEEP			SLEEP						POST SLEEP
	M. GARNEAU										
E V A	MS1	PRE SLEEP			SLEEP						POST SLEEP
	J. TANNER										
	MS3	SWIS DEACT	PRE SLEEP			SLEEP					
C. HORIEGA											
M C C											
	SHEPHERD		DAR	PRE SLEEP	SLEEP						POST SLEEP
	GIDZENKO		DAR	PRE SLEEP	SLEEP						POST SLEEP
	KRIKALEV	♦	DAR	PRE SLEEP	SLEEP						POST SLEEP
DAY/NIGHT											
ORBIT		64	65	66	67	68	69	70	71	72	
DAILY ORBIT		6	7	8	9	10	11	12	13	14	
TDRS											
ORB/ISS ATT											
NOTES:		♦EXERCISE									
		XPOP MPA									

STS-97 (FD06)

GMT 12/05/00 16 17 18 19 20 21 22 23 12/06 01 02 03
 FD06 12 13 14 15 16 17 18 19 20 21 22 23 005/00
 MET Day 004

S T S	CDR B. JETT	POST SLEEP	PMC	POST SLEEP	INH PAD	P/TV23 S/U EVA	EXERCISE	Z1 PP RECONFIG			MEAL		LVLH MNVR		10-2 MN	INGR TAGUP	
	PLT M. BLOOMFIELD	POST SLEEP			R/M SC HUTUR	P/TV23 S/U EVA	R P M W S R U P	RMS P/TV EVA SUPPORT					RMS EVA SUPPORT	RMS PD	EXERCISE		
I V A	MS2 M. GARNEAU	POST SLEEP	EVA PREP		EMU PURGE & P/B		EVA 2 SUPPORT (06:30)					POST EVA SPT					
	MS1 J. TANNER EVA1	POST SLEEP	EVA PREP	EMU PURGE & P/B	A/L DP	SORTI S/U	ACH B M S S D	SASA RELOCATE	(5A) ATCH Z1 TO P6 QD (EETCS)	C C A M E R A	PMA2 RELOC PREP (5A)	EPS JUMPER STOW	EVA2 PHOTO DOC	SORTIE CLEANUP	A/L RP	P/EVA WO RCHG	ERM U V L
E V A	MS3 C. NORIEGA EVA2	POST SLEEP	EVA PREP	EMU PURGE & P/B	A/L DP	SORTI S/U	Z1 P P R C	SASA RELOCATE	Z1 P P R C	PMA2 RELOC PREP (5A)	REL AFT RAD CIN WINC	ST A S K S P R E P	P D H O C	SORTIE CLEANUP	A/L RP	P/EVA WO RCHG	ERM U V L

M C C	FMT DATA LOAD	FMT DATA LOAD														FMT DATA LOAD
	INH PAD	INH PAD														
	Z1 PP RECONFIG	Z1 PP RECONFIG														
	RACU	HRACU-HRACU HRACU HRACU														
	PFCS	PFCS														
	ECOM ACT	ECOM ACT														
ARCU A&C	ARCU A&C															
SAW CMD RATE	SAW CMD RATE															
S-BD ACT	S-BD ACT															
S-BD-LDR-CHAR	S-BD-LDR-CHAR															

I S S	SHEPHERD	POST SLEEP	CT R W U	DPC	EXERCISE	Z1 PP RECONFIG	MEAL	ARCU A&C	LVLH MNVR	INGR TAGUP
	GIDZENKO	POST SLEEP	CT R W U	DPC	EXERCISE	MEAL	EXERCISE	INGR TAGUP		
	KRIKALEV	POST SLEEP	CT R W U	DPC	EXERCISE	MEAL	ARCU A&C	EXERCISE		

DAY/NIGHT	DAY/NIGHT													
ORBIT	72	73	74	75	76	77	78	79						
DAILY ORBIT	14	15	1	2	3	4	5	6						
TDRS	TDRS													
ORB/ISS ATT	XPOP MPA @RMV DDCU SH *CBCS CONNECTED, NO FGB OCA LVLH TEA													

NOTES: 2-12 FLT PLN/97/FIN 11/03/00

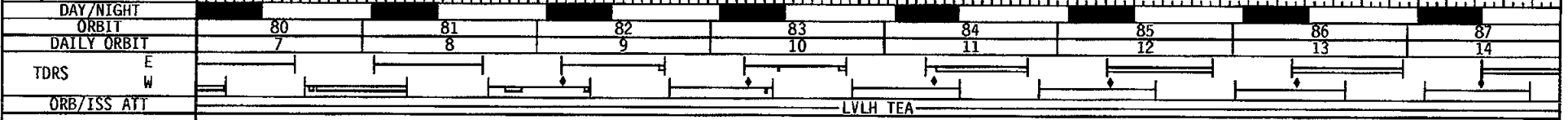
STS-97 (FD06)

GMT 12/06/00 005/00 04 05 06 07 08 09 10 11 12 13 14 15
 FD6 MET Day 005 01 02 03 04 05 06 07 08 09 10 11 12

S T S	CDR	PRE SLEEP	PMC	PRE SLEEP	SLEEP				POST SLEEP	
	B. JETT									
R M S	PLT	PRE SLEEP			SLEEP				POST SLEEP	
	M. BLOOMFIELD									
I V A	MS2	PRE SLEEP			SLEEP				POST SLEEP	
	M. GARNEAU									
E V A	MS1	E R M M U V L	PRE SLEEP			SLEEP				POST SLEEP
	J. TANNER									
E V A	MS3	E R M M U V L	PRE SLEEP			SLEEP				POST SLEEP
	C. NORIEGA									

ISS EXTERNAL SURVEY
 S-BD-LDR-CHAR
 PCU 4B ACT DIS
 TCS NOM CFG
 IS-BD-LDR-CHAR
 PCU 4B ACT DIS
 TCS NOM CFG

I S S	SHEPHERD	DAR	PRE SLEEP	SLEEP				POST SLEEP
	GIDZENKO	DAR	PRE SLEEP	SLEEP				POST SLEEP
	KRIKALEV	DAR	PRE SLEEP	SLEEP				POST SLEEP



NOTES:

STS-97 (FD07)

GMT 12/06/00 16 17 18 19 20 21 22 23 12/07 01 02 03
 FD07 12 13 14 15 16 17 18 19 20 21 22 23 006/00
 MET Day 005

S T S	CDR	POST SLEEP		14.7 REPRS	JOINT PMA3 INGR	SAFETY BRIEF	JOINT OPS	EXERCISE	JOINT OPS	MEAL	H20 7 INIT	JOINT OPS	H20 7 INIT	JOINT OPS	EETCS DEPLOY	JOINT OPS	
	B. JETT																
R M S	PLT	POST SLEEP			JOINT PMA3 INGR	SAFETY BRIEF	H20 6 INIT	JOINT OPS	H20 6 INIT	JOINT OPS	MEAL	JOINT OPS				EXERCISE	
	M. BLOOMFIELD																
I V A	MS2	POST SLEEP	EXERCISE		JOINT PMA3 INGR	SAFETY BRIEF	N1PD4 UOP INST	N1SD4 UOP INST	N1SD4 UOP INST	JOINT OPS	MEAL	XFER OPS				MEAL	
	M. GARNEAU																
E V A	MS1	POST SLEEP	EMU LIOH C/O	P/TV22 S/U INGRS	JOINT PMA3 INGR	SAFETY BRIEF	CBCS INST & SU			JOINT OPS	MEAL	EXERCISE	N1 FWD CBCS C/O		PS // TU V 2 5	P/TV25 OPS EETCS DPL	P/TV25 OPS
	J. TANNER																
E V A	MS3	POST SLEEP	EMU LIOH C/O	PCS D/A	JOINT PMA3 INGR	SAFETY BRIEF	EXERCISE	JOINT OPS	VTR ACT	VTR P/B	JOINT OPS	MEAL	JOINT OPS	N1 IWIS S/U		I A W C I T S	IWIS CHECKOUT
	C. NORIEGA																

M C	FMT DATA LOAD	IFMT DATA LOAD										IFMT DATA LOAD									
	P6 EETCS LPA C/O	P6 EETCS LPA C/O										P6 EETCS LPB C/O									
	P6 EETCS LPB C/O	P6 EETCS LPB C/O										P6 EETCS LPB C/O									
	RACUSDN	RACUSDN										RACUSDN									
	N1 PP RECONFIG	N1 PP RECONFIG										N1 PP RECONFIG									

I S S	SHEPHERD	POST SLEEP	DPC	NODE INGR	PMA3 INGR	XFER OPS	CTR DISK RMV	SAFETY BRIEF	IMAX OPS	PCS ACT	N1 PP RECONFIG	MEAL	DT0261 UNSTW	N1 IWIS S/U		I A W C I T S	IWIS CHECKOUT
	GIDZENKO	POST SLEEP	DPC	NODE INGR	PMA3 INGR	XFER OPS	JOINT PMA3 INGR	SAFETY BRIEF	N1PD4 UOP INST	N1SD4 UOP INST	N1 PP RECONFIG	MEAL	DT0261 UNSTW	N1 IWIS S/U		I A W C I T S	
	KRIKALEV	POST SLEEP	DPC	NODE INGR	PMA3 INGR	XFER OPS	JOINT PMA3 INGR	SAFETY BRIEF	CBCS INST & SU	SSC ACT	N1 PP RECONFIG	MEAL	OCA DEACT	OCA S/U	N1 FWD CBCS C/O		

DAY/NIGHT	[Bar chart showing day/night cycle]																		
ORBIT	87	88	89	90	91	92	93	94	95										
DAILY ORBIT	14	15	1	2	3	4	5	6	7										
TDRS	[Bar chart showing TDRS activity]																		
ORB/ISS ATT	[Bar chart showing orb/iss att]																		
NOTES:	*JOINT PMA3 INGR *N1SD4* *UOP C/O LVLH TEA *Y-CABLE REMOVAL FD LVLH TEA																		

STS-97 (FD07)

GMT 12/07/00
 FD7 006/00
 MET Day 006

		04	05	06	07	08	09	10	11	12	13	14	15
		01	02	03	04	05	06	07	08	09	10	11	12
STS	CDR B. JETT	PMC	PRE SLEEP					SLEEP					POST SLEEP
	PLT M. BLOOMFIELD		PRE SLEEP					SLEEP					POST SLEEP
IVA	MS2 M. GARNEAU		PRE SLEEP					SLEEP					POST SLEEP
	MS1 J. TANNER		PRE SLEEP					SLEEP					POST SLEEP
EVA	MS3 C. NORIEGA		PRE SLEEP					SLEEP					POST SLEEP
	— DTO 261 SA OBS —												
MCC	— DTO 261 D/L —												
	— DTO 261 D/L —												
ISS	SHEPHERD	DAR	PRE SLEEP					SLEEP					POST SLEEP
	GIDZENKO	DAR	PRE SLEEP					SLEEP					POST SLEEP
	KRIKALEV	DAR	PRE SLEEP					SLEEP					POST SLEEP
DAY/NIGHT													
ORBIT		95	96	97	98	99	100	101	102	103			
DAILY ORBIT		7	8	9	10	11	12	13	14	15			
TDRS													
ORB/ISS ATT													
NOTES:													

STS-97 (FD08)

GMT	12/07/00		16		17		18		19		20		21		22		23		12/08		01		02		03			
FDB	Day 006		13		14		15		16		17		18		19		20		21		22		23		007/00			
MET	Day 006		12		13		14		15		16		17		18		19		20		21		22		23		007/00	
STS	CDR B. JETT	POST SLEEP		JOINT OPS		DTO 261 TEST 1*		CMG TAGUP	JOINT OPS		DTO 261 TEST 2*		MEAL	CREW PHOT	CREW CONF		JOINT OPS	EXERCISE		15.0 REPRS		PMA3 JOINT EGRESS	ODS VEST LEAK CHECK		UT NADG OUPCK			
		PLT M. BLOOMFIELD	POST SLEEP		P/TV08 S/U DTO 261		DTO 261 TEST 1*		JOINT OPS		DTO 261 TEST 2*		MEAL	CPHREO W T O	CREW CONF		EXERCISE		JOINT OPS	15.0 REPRS				ODS VEST LEAK CHECK		UT NADG OUPCK		
MS2 M. GARNEAU	POST SLEEP		XFER OPS		P/TV08 OPS DTO 261		EXERCISE		XFER OPS	P/TV08 OPS DTO 261		MEAL	CPHREO W T O	CREW CONF		XFER OPS		XTFA EG RUP		EIMNUS T L		ODS VEST LEAK CHECK		UT NADG OUPCK				
	MS1 J. TANNER	POST SLEEP		EXERCISE		RAM DCSI METER	JOINT OPS		P/TV22 S/U		PS H/O U T O	MEAL	CPHREO W T O	CREW CONF		JOINT OPS		H: A T C H L O S E		VTRB VTR ACT P/B		AUX BAT CHG INI		UT NADG OUPCK				
MS3 C. NORIEGA		POST SLEEP		IWIS ACT		DTO 261 TEST 1*		JOINT OPS	EXERCISE		JOINT OPS		MEAL	CPHREO W T O	CREW CONF		IWIS S/D		JOINT OPS		EIMNUS T L		AUX BAT CHG INI		UT NADG OUPCK			
	D/O 261 D/L		D/O 261 D/L																									
ISS	SHEPHERD	POST SLEEP	DPC	IWIS ACT		DTO 261 TEST 1*		CMG TAGUP	ECS RCNFG	DTO 261 TEST 2*		MEAL	CREW PHOT	CREW CONF		IWIS S/D				PMA3 JOINT EGRESS								
	GIDZENKO	POST SLEEP	DPC	EXERCISE						P/TV22 S/U		MEAL	CREW PHOT	CREW CONF						PMA3 JOINT EGRESS		EXER CISE						
	KRIKALEV	POST SLEEP	DPC							ECS RCNFG			MEAL	CREW PHOT	CREW CONF						PMA3 JOINT EGRESS		EXERCISE					
DAY/NIGHT ORBIT		103		104		105		106		107		108		109		110		111										
DAILY ORBIT		15		16		1		2		3		4		5		6		7										
TDRS		E		W																								
ORB/ISS ATT		LVLH TEA		FD		LVLH TEA		FD		LVLH TEA		FD		LVLH TEA		FD		LVLH TEA										
NOTES:				*NODE1, FGB, & SM		*Includes HTD 1404 LDRI Ops		*No ERGOMETER				*T2-PVR PHOTOGRAMMETRY										*INIT						

STS-97 (FD08)

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

S T S	CDR	UT NA DG OU CP K	PRE SLEEP	PMC	PRE SLEEP	SLEEP						POST SLEEP
	B. JETT											
R M S	PLT	UT NA DG OU CP K	PRE SLEEP		SLEEP						POST SLEEP	
	M. BLOOMFIELD											
I V A	MS2	UT NA DG OU CP K	PRE SLEEP		SLEEP						POST SLEEP	
	M. GARNEAU											
E V A	MS1	UT NA DG OU CP K	PRE SLEEP		SLEEP						POST SLEEP	
	J. TANNER											
E V A	MS3	UT NA DG OU CP K	PRE SLEEP		SLEEP						POST SLEEP	
	C. NORIEGA											

MCC ODS VEST LK CK MDM ODS VEST L MDM * FROM

I S S	SHEPHERD		DAR	PRE SLEEP	SLEEP						POST SLEEP
	GIDZENKO	EXER CISE	DAR	PRE SLEEP	SLEEP						POST SLEEP
	KRIKALEV		DAR	PRE SLEEP	SLEEP						POST SLEEP

DAY/NIGHT	[Day/Night Cycle]																	
ORBIT	111	112	113	114	115	116	117	118	119	7	8	9	10	11	12	13	14	15
DAILY ORBIT	[Daily Orbit Schedule]																	
TDRS	[TDRS Schedule]																	
ORB/ISS ATT	[Orbit/ISS Attachment Schedule]																	
	[LVLH TEA]																	

NOTES: *Uplink Version 9 PPL

STS-97 (FD09)

GMT 12/08/00
 FD9 MET Day 007
 12 13 14 15 16 17 18 19 20 21 22 23 12/09 01 02 03
 008/00

STS	CDR B. JETT	POST SLEEP	C/L CMR	M U N N V D R K	G P R P U	UNDOCK OPS	FLYAROUND	D M U N M V P R	EXERCISE	G P S O P S 2 T E S T	G P S P / D	V T R A C T	V T R P / B	MEAL	OFF DUTY			
	PLT M. BLOOMFIELD	POST SLEEP			R N D Z P G S C S / U	UNDOCK OPS	FLYAROUND	G P R P D	EXERCISE					MEAL	OFF DUTY			
	MS2 M. GARNEAU	POST SLEEP			P / T V 20 S / U	P / T V 2 O P S D K / U N D K	FLYAROUND	V H F D / A S T W		P S T / V U 0 2	P O A P O P T Y			EXERCISE	MEAL	OFF DUTY		
	MS1 J. TANNER	POST SLEEP	C/L CMR		P / T V 20 S / U	P / T V 2 O P S D K / U N D K	FLYAROUND	C C R E L M E O R V A E	C W C C O N D S T O W		EXERCISE			MEAL	S L Y W S T I N T	OFF DUTY	D M P T R M	OFF DUTY
	MS3	POST SLEEP			A U X B A T C H G T R M	UNDOCK OPS *	FLYAROUND	D D E A C T						EXERCISE	MEAL	OFF DUTY		
ISS	SHEPHERD	POST SLEEP	C R W D P C T / U	M U N N V D R K			EXERCISE		C I S D N S Y P F S S R G					MEAL				
	GIDZENKO	POST SLEEP	C R W D P C T / U	L S O A C W K										EXERCISE	MEAL	P T V S U		
	KRIKALEV	POST SLEEP	C R W D P C T / U											EXERCISE	MEAL			
	DAY/NIGHT ORBIT		119	120	121	122	123	124	125	126								
DAILY ORBIT		15	1	2	3	4	5	6	7									
TDRS		[Timeline diagram showing TDRS events]																
RUS GND		[Timeline diagram showing RUS GND events]																
ISS/ORB ATT		[Timeline diagram showing ISS/ORB ATT events]																
NOTES:		*INHIB BATT CYCL *FEATHER RUS SAW *FEATHER US SA *7/15:13 (SR-17MIN) *TERM																

STS-97 (FD09)

GMT 12/09/00 008/00 04 05 06 07 08 09 10 11 12 13 14 15
 FD9 Day 008 01 02 03 04 05 06 07 08 09 10 11 12
 MET

S T S	CDR B. JETT	-ZLV -XVV	PRE SLEEP PMC	PRE SLEEP	SLEEP	POST SLEEP
	PLT M. BLOOMFIELD			PRE SLEEP	SLEEP	POST SLEEP
	MS2 M. GARNEAU	I C B C		PRE SLEEP	SLEEP	POST SLEEP
	MS1 J. TANNER			PRE SLEEP	SLEEP	POST SLEEP
	MS3 C. NORIEGA			PRE SLEEP	SLEEP	POST SLEEP
	DAY/NIGHT	[Shaded bars indicating day/night cycle]				
ORBIT	127 128 129 130 131 132 133 134					
TDRS	E W [Horizontal bars indicating TDRS activity]					
ORB ATT	-ZLV -XVV					
NOTES:						

STS-97 (FD10)

GMT		12/09/00												12/10		01		02		03										
FD10		16												17		18		19		20		21		22		23				
MET		Day 008												21		22		23		009/00										
STS	CDR	POST SLEEP				FCS C/O				HOT FIRE	GPS P/U	EXERCISE				MEAL	PAO OPPTY	CREW PHOTO	PILOT	L-1 COMM	D/O BRIEF	CABIN STOW				L-1 COMM	CABIN STOW			
	B. JETT	POST SLEEP				FCS C/O				HOT FIRE	EXERCISE				MEAL	CREW PHOTO	PILOT	D/O BRIEF				CABIN STOW								
	PLT	POST SLEEP		APU	POST SLEEP		FCS C/O				HOT FIRE	EXERCISE				MEAL	CREW PHOTO	PILOT	D/O BRIEF				CABIN STOW							
	M. BLOOMFIELD	POST SLEEP				FCS C/O				HOT FIRE	EXERCISE				P/EVA ENT PREP	MEAL	PEN TR VOY S/U	CREW PHOTO	PILOT	COMM C/O	D/O BRIEF	FILTER CLEAN	CABIN STOW				KU STOW			
	MS2	POST SLEEP				FCS C/O				HOT FIRE	EXERCISE				P/EVA ENT PREP	MEAL	PEN TR VOY S/U	CREW PHOTO	PILOT	COMM C/O	D/O BRIEF	FILTER CLEAN	CABIN STOW				KU STOW			
	M. GARNEAU	POST SLEEP				EXERCISE				CS/REU PHOTO	P/T VO 2 S/U	P/EVA ENT PREP				MEAL	PAO OPPTY	CREW PHOTO	ERGO METER STOW	D/O BRIEF	SSV D/A	CABIN STOW								
J. TANNER	POST SLEEP				EXERCISE				P/EVA ENT PREP				MEAL	PAO OPPTY	CREW PHOTO	CABIN STOW	D/O BRIEF				CABIN STOW									
MS3	POST SLEEP				EXERCISE				P/EVA ENT PREP				MEAL	PAO OPPTY	CREW PHOTO	CABIN STOW	D/O BRIEF				CABIN STOW									
C. NORIEGA	POST SLEEP				EXERCISE				P/EVA ENT PREP				MEAL	PAO OPPTY	CREW PHOTO	CABIN STOW	D/O BRIEF				CABIN STOW									
DAY/NIGHT		[Day/Night Cycle]																												
ORBIT		[Orbit Parameters]																												
TDRS		[TDRS Events]																												
ORB ATT		[Orbit Attitude]																												
NOTES:		*APU HTR ACT -ZLV -XVV																												

STS-97 (FD10)

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

S T S	CDR B. JETT	PMC	PRE SLEEP	SLEEP	POST SLEEP
	PLT M. BLOOMFIELD		PRE SLEEP	SLEEP	POST SLEEP
	MS2 M. GARNEAU		PRE SLEEP	SLEEP	POST SLEEP
	MS1 J. TANNER		PRE SLEEP	SLEEP	POST SLEEP
	MS3 C. NORIEGA		PRE SLEEP	SLEEP	POST SLEEP
	DAY/NIGHT				



NOTES:

STS-97 (FD11)

GMT 12/10/00 12 16 17 18 19 20 21 22 23 12/11 01 02 03
 FD11 13 14 15 16 17 18 19 20 21 22 23 010/00
 MET Day 009

STS	CDR B. JETT	POST SLEEP	PMC	POST SLEEP	GRP B P/U	IMU & VERIF	- X S I M N V R	DEORBIT PREP			D E O R B I T B U R N *	K S C			
	PLT M. BLOOMFIELD	POST SLEEP				IMU & VERIF		DEORBIT PREP	COMM M N V R	DEORBIT PREP			BRN MVR	L A N D I N G *	
	MS2 M. GARNEAU	POST SLEEP						DEORBIT PREP							
	MS1 J. TANNER	POST SLEEP				TEPC DA	O C A C S T O W	G I R A S T O W	DEORBIT PREP						
	MS3 C. NORIEGA	POST SLEEP					O C A S T O W	P S T I O N W T E R	DEORBIT PREP						

DAY/NIGHT	[Shaded bars indicating day/night cycle]													
ORBIT	150	151	152	153	154	155	156	157	158					
TDRS	[Timeline with E/W markers and activity bars]													
ORB ATT	-ZLV -XVV IMU -XSI COMM ENTRY													

NOTES: φD/O H2O CONFIG •ICBC 3D DEACT

* DEORBIT BURN 9/19:36

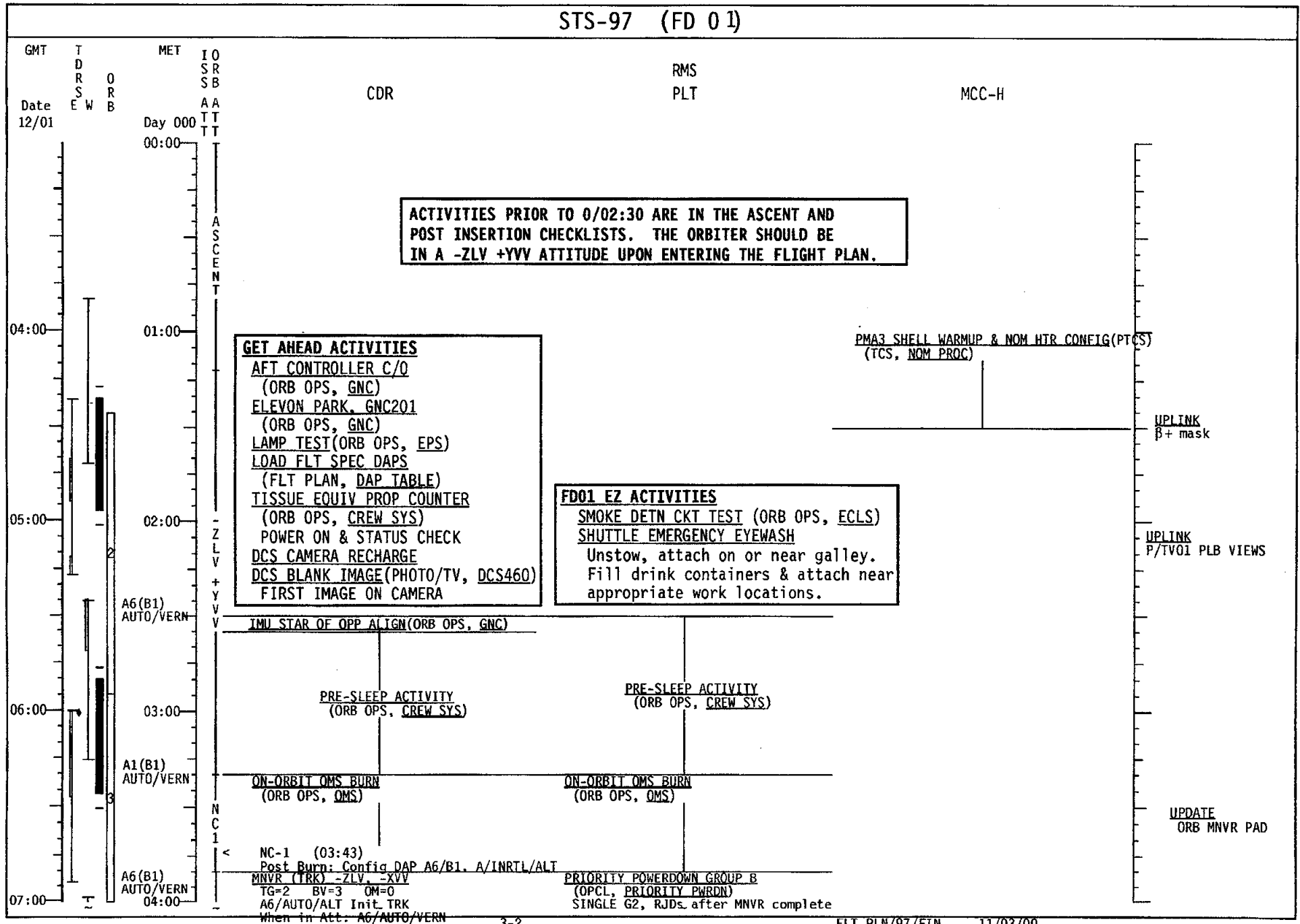
* KSC LANDING 9/20:41

DETAILED TIMELINE

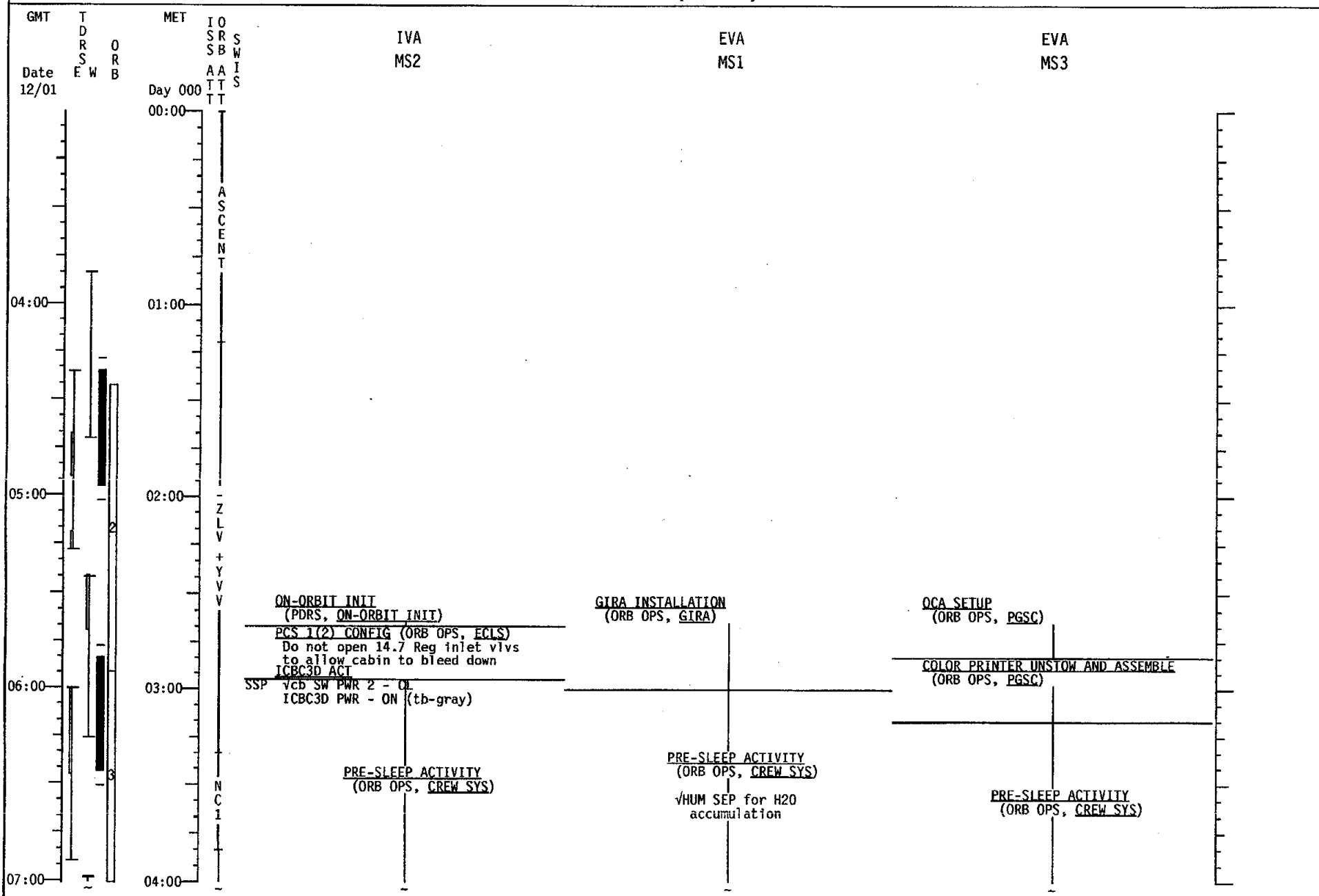
DETAILED
TIMELINE

DETAILED TIMELINE

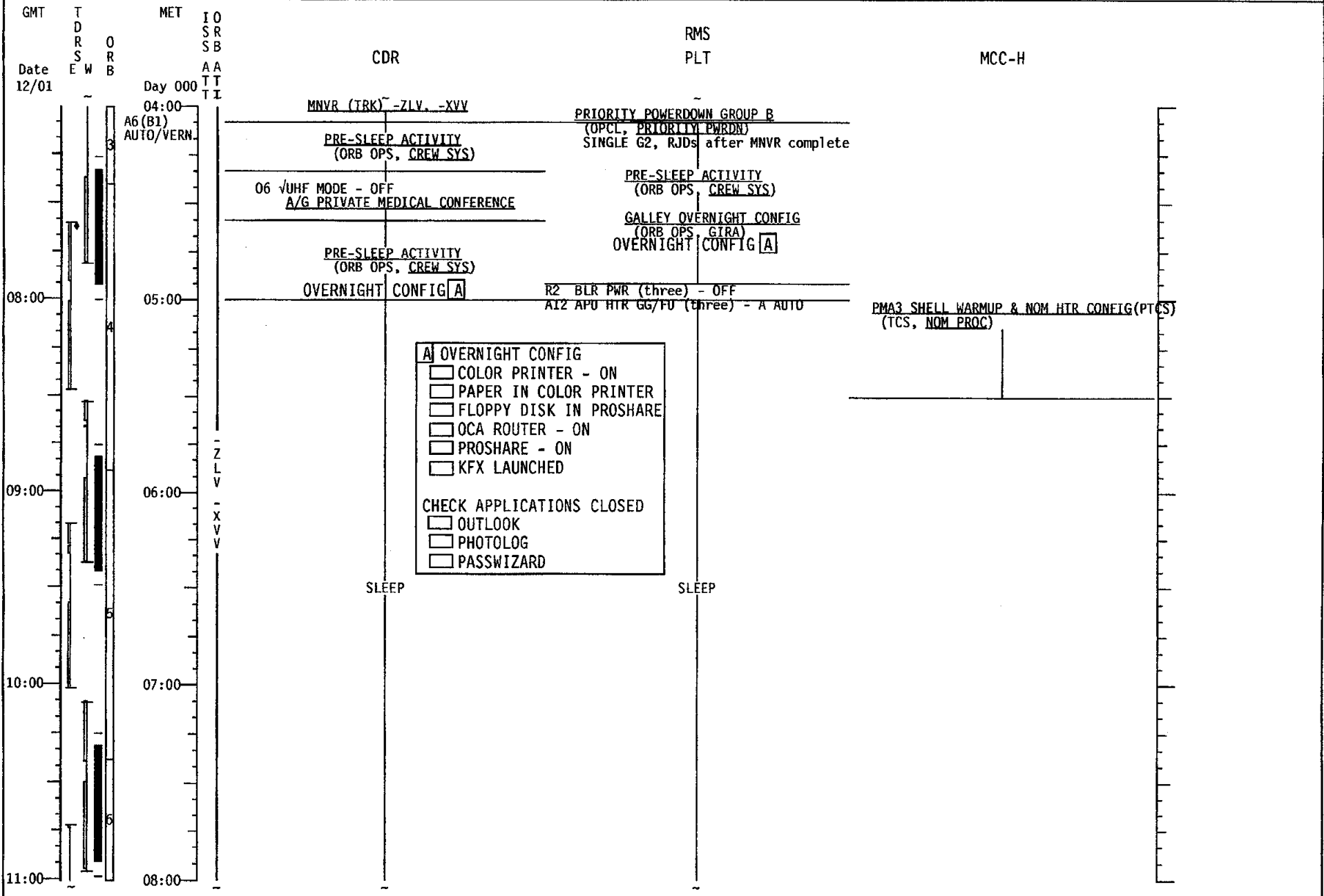
STS-97 (FD 01)



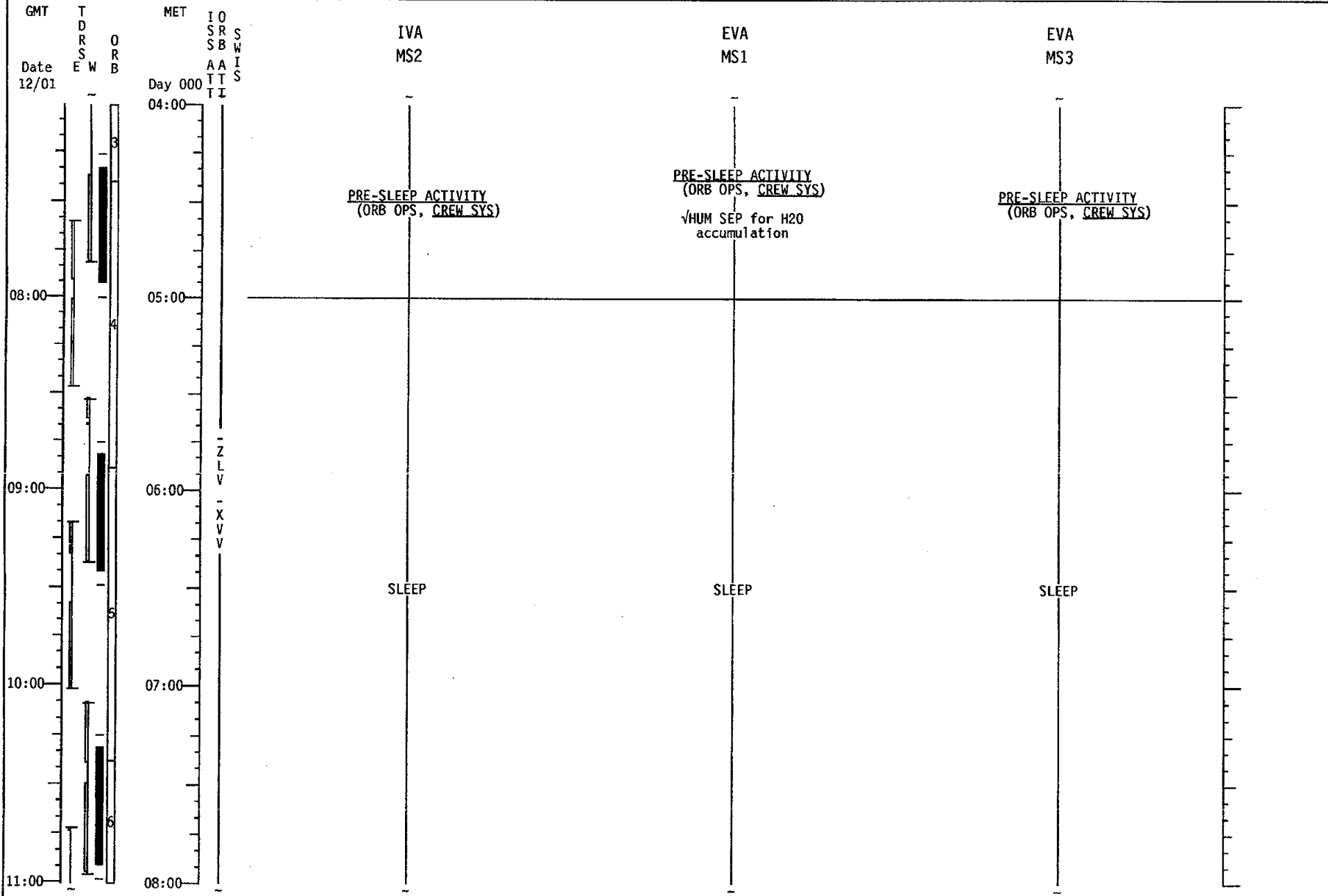
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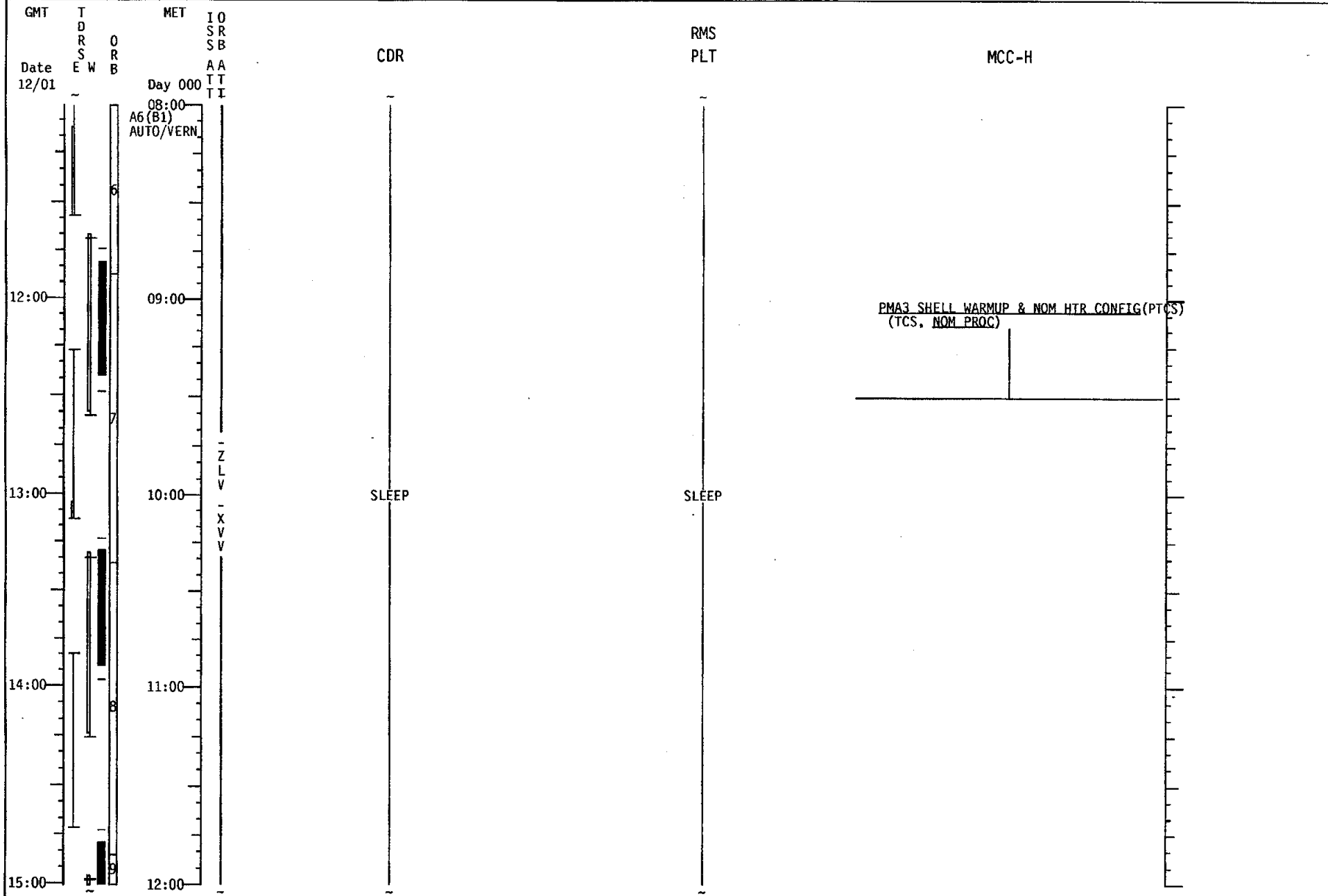
STS-97 (FD 01)



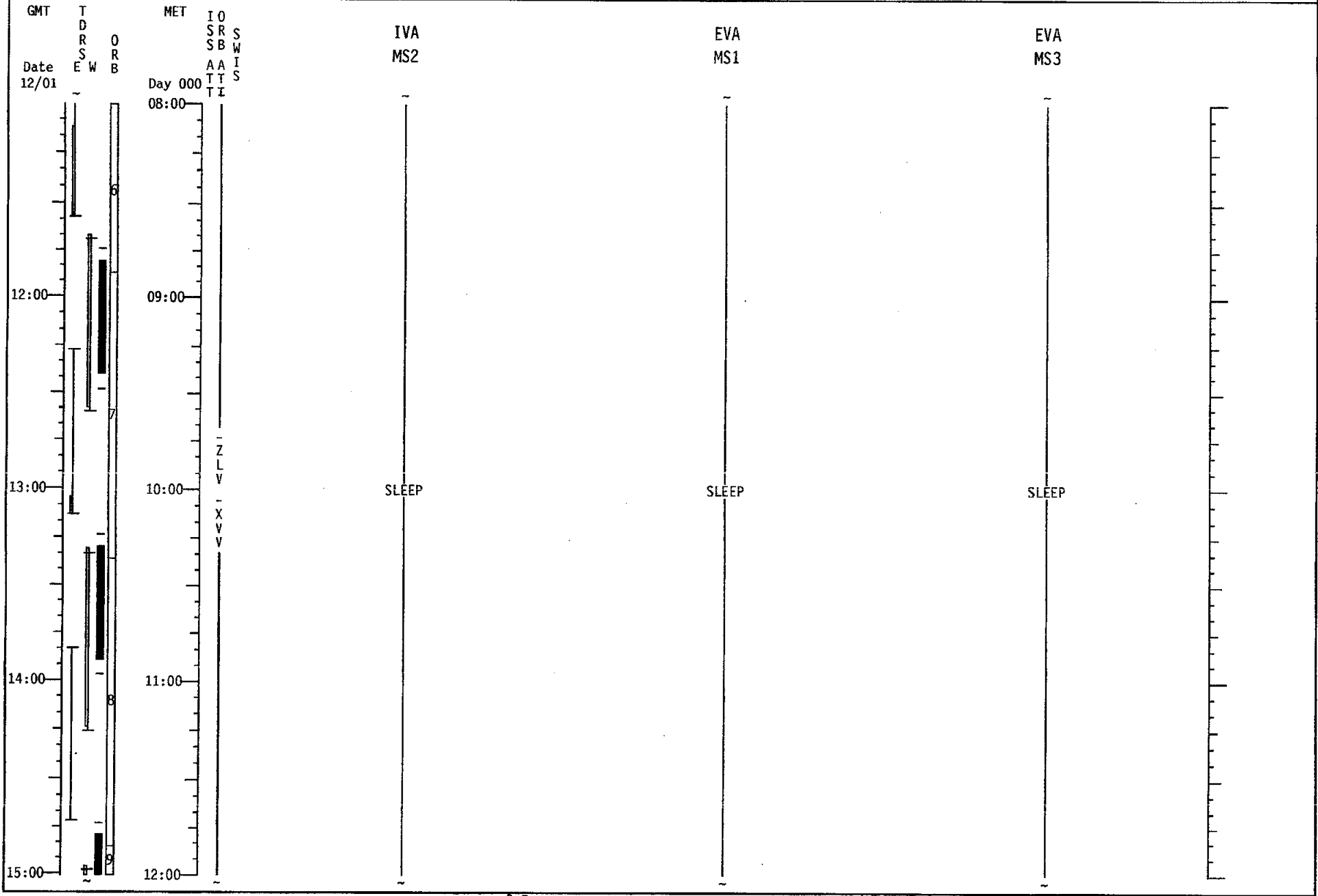
STS-97 (FD 01)



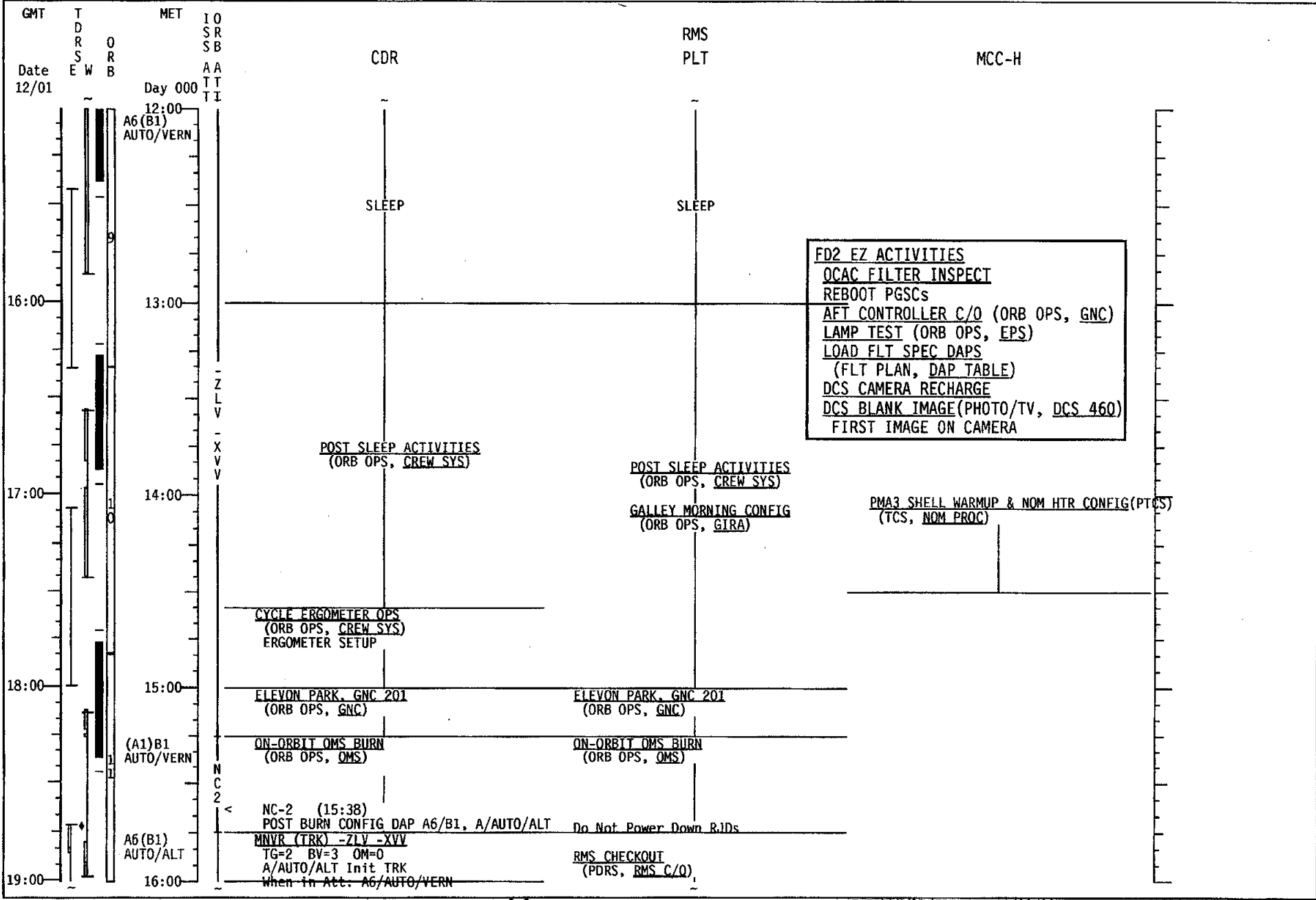
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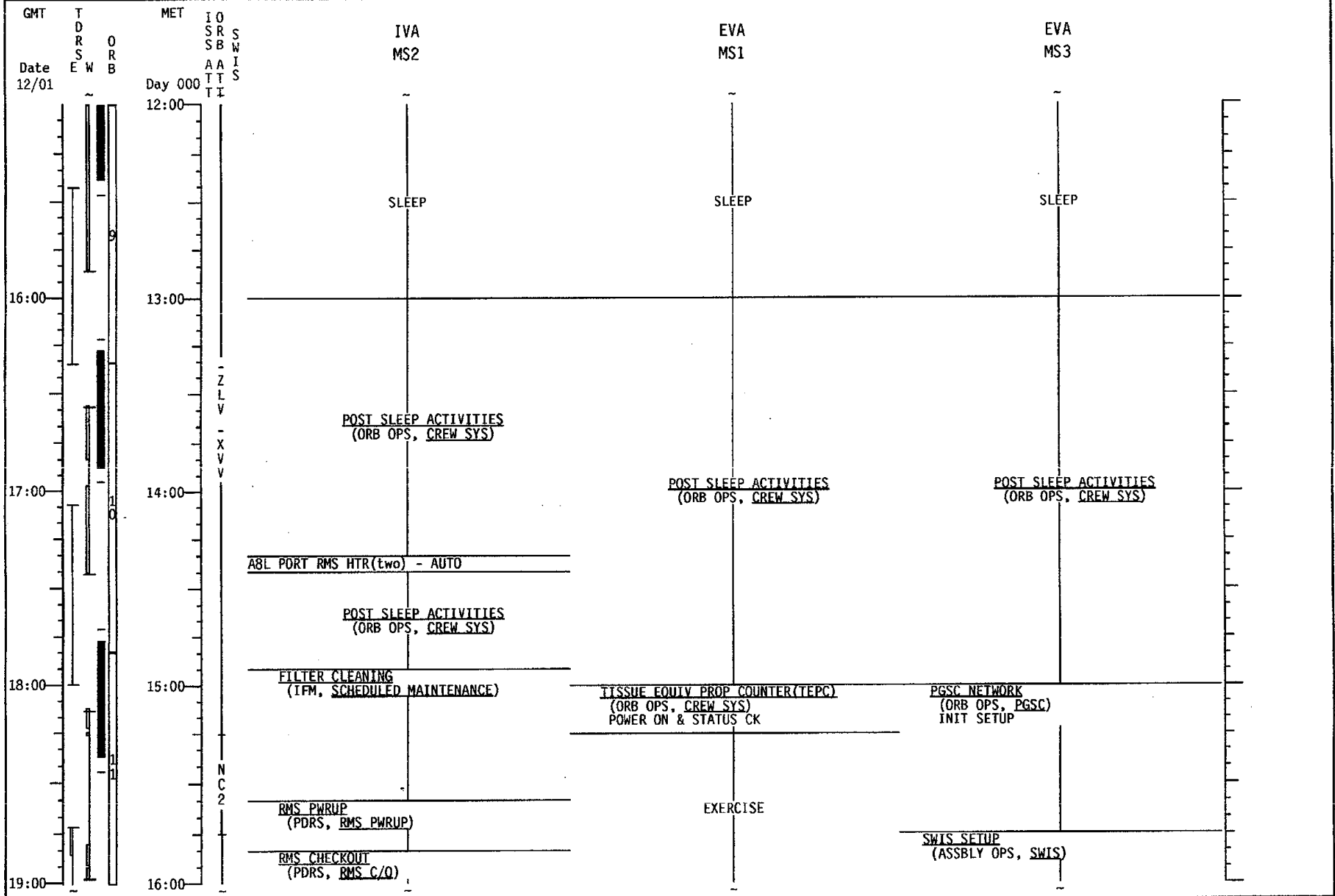
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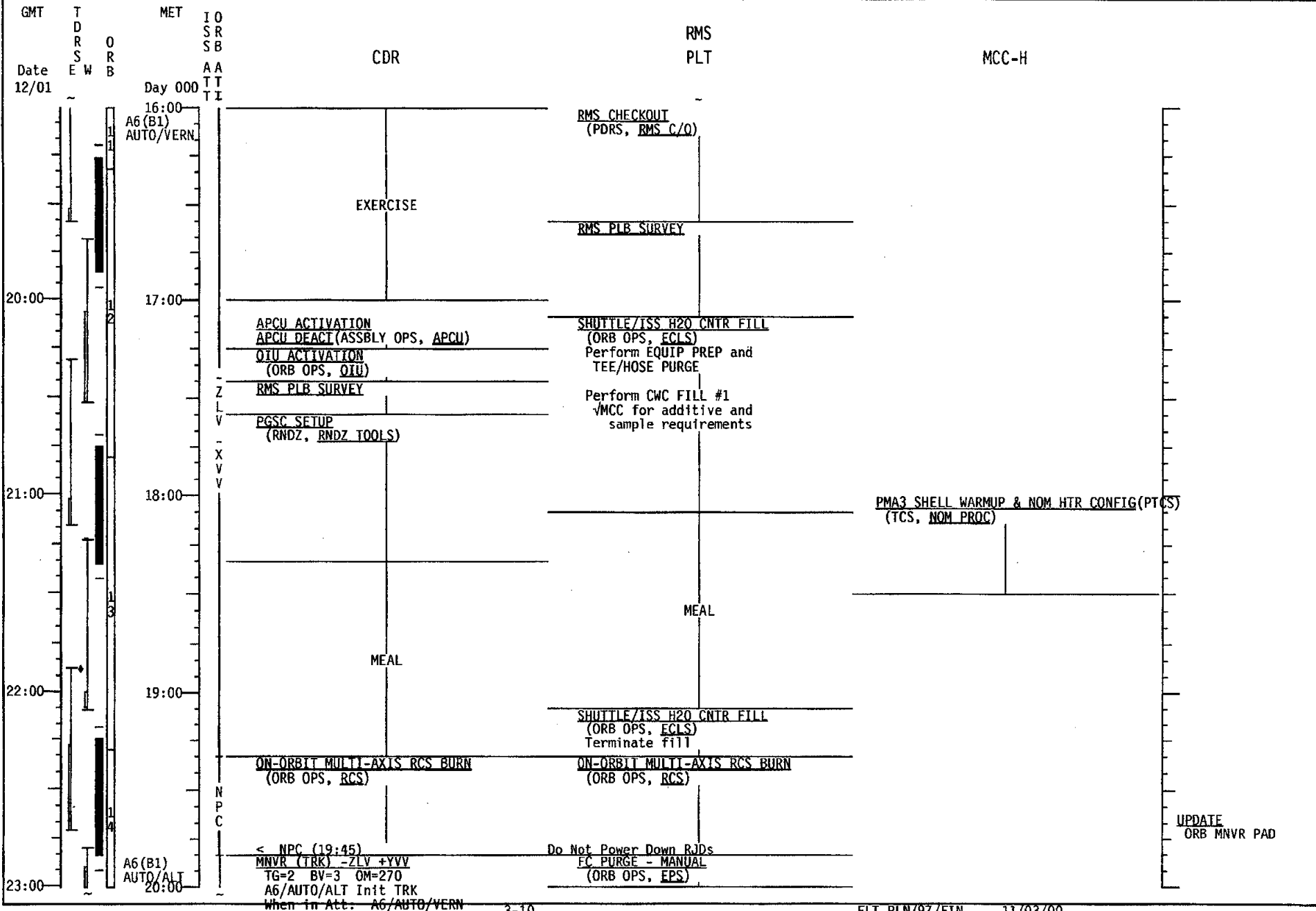
STS-97 (FD 02)



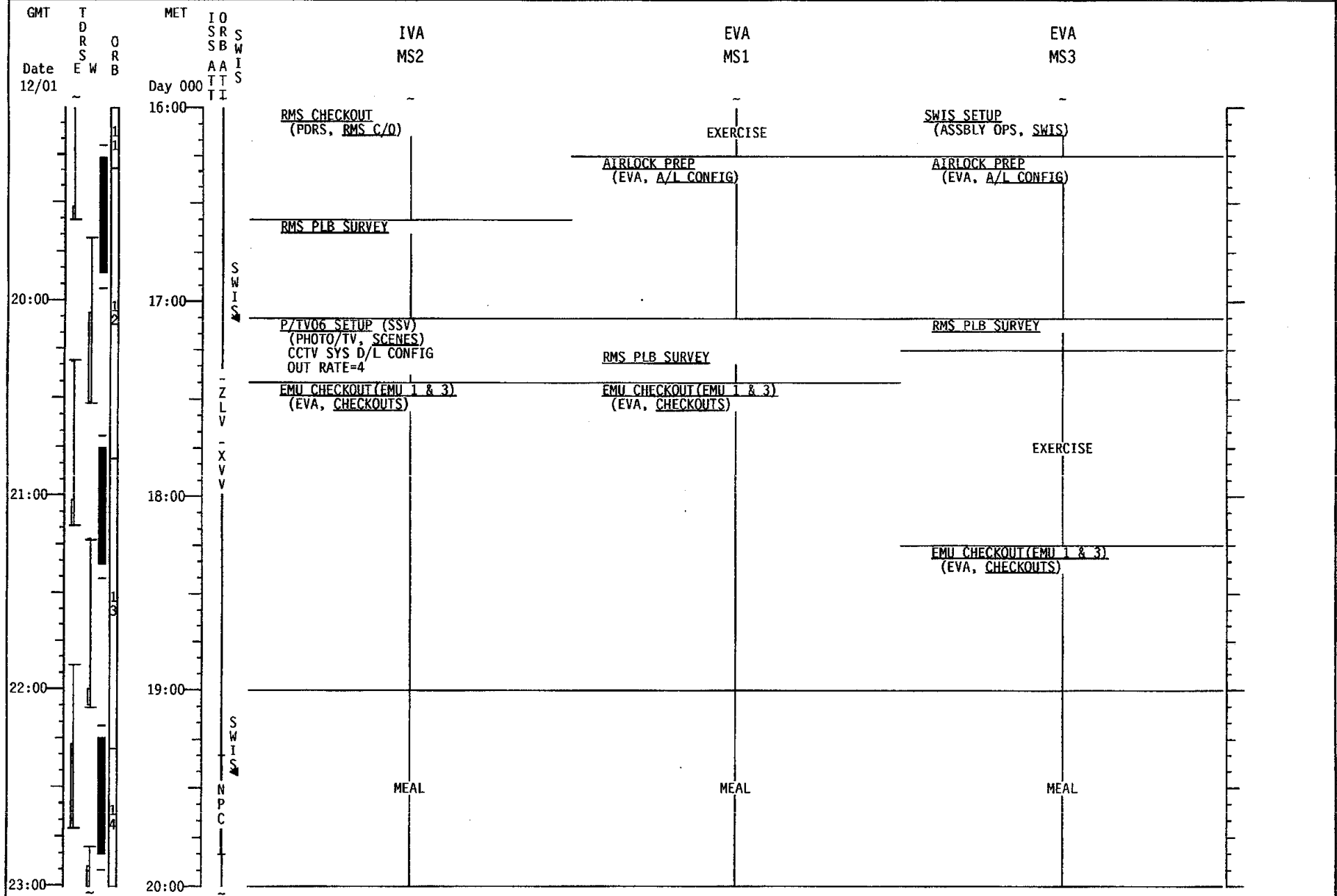
STS-97 (FD 02)



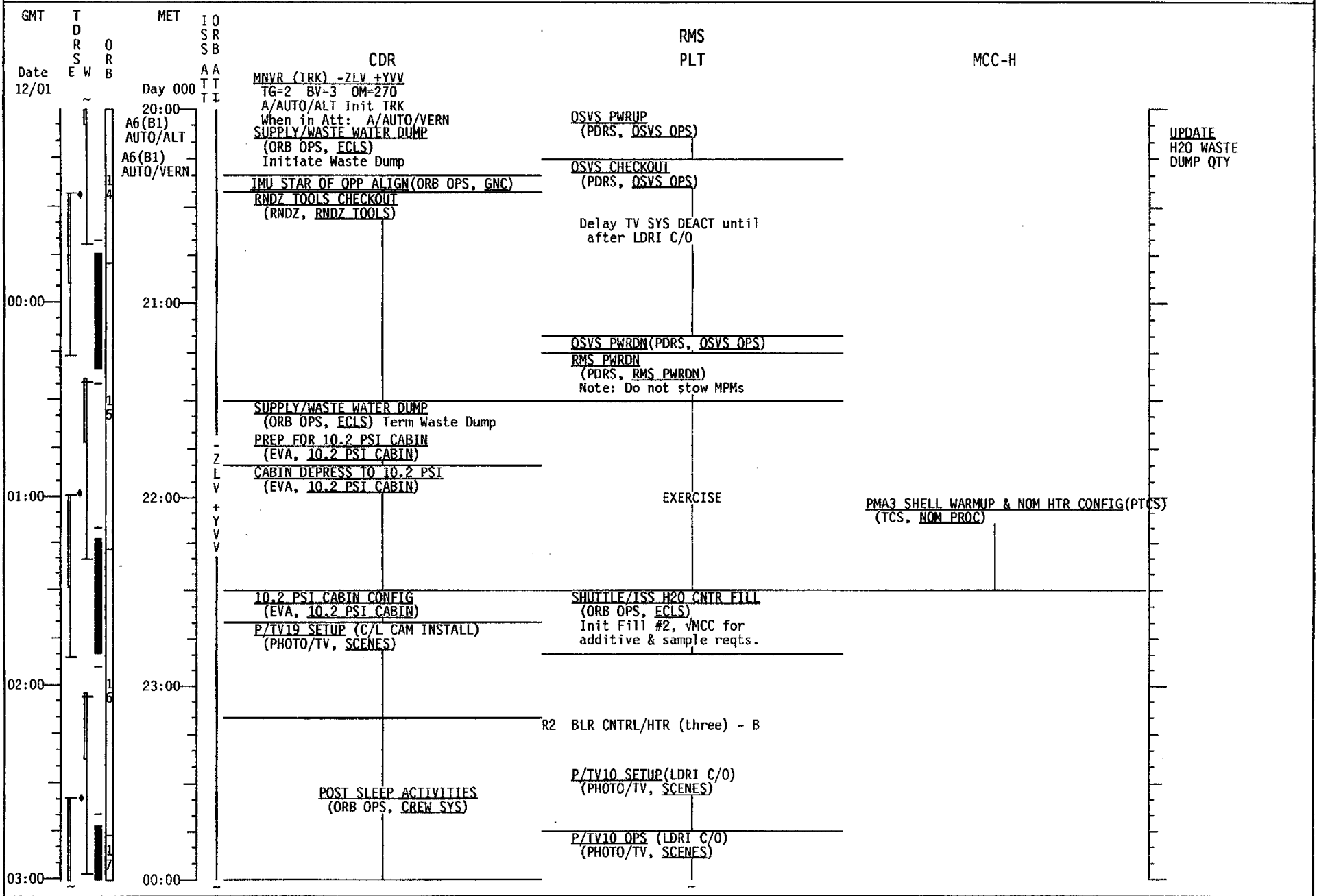
STS-97 (FD 02)



STS-97 (FD 02)

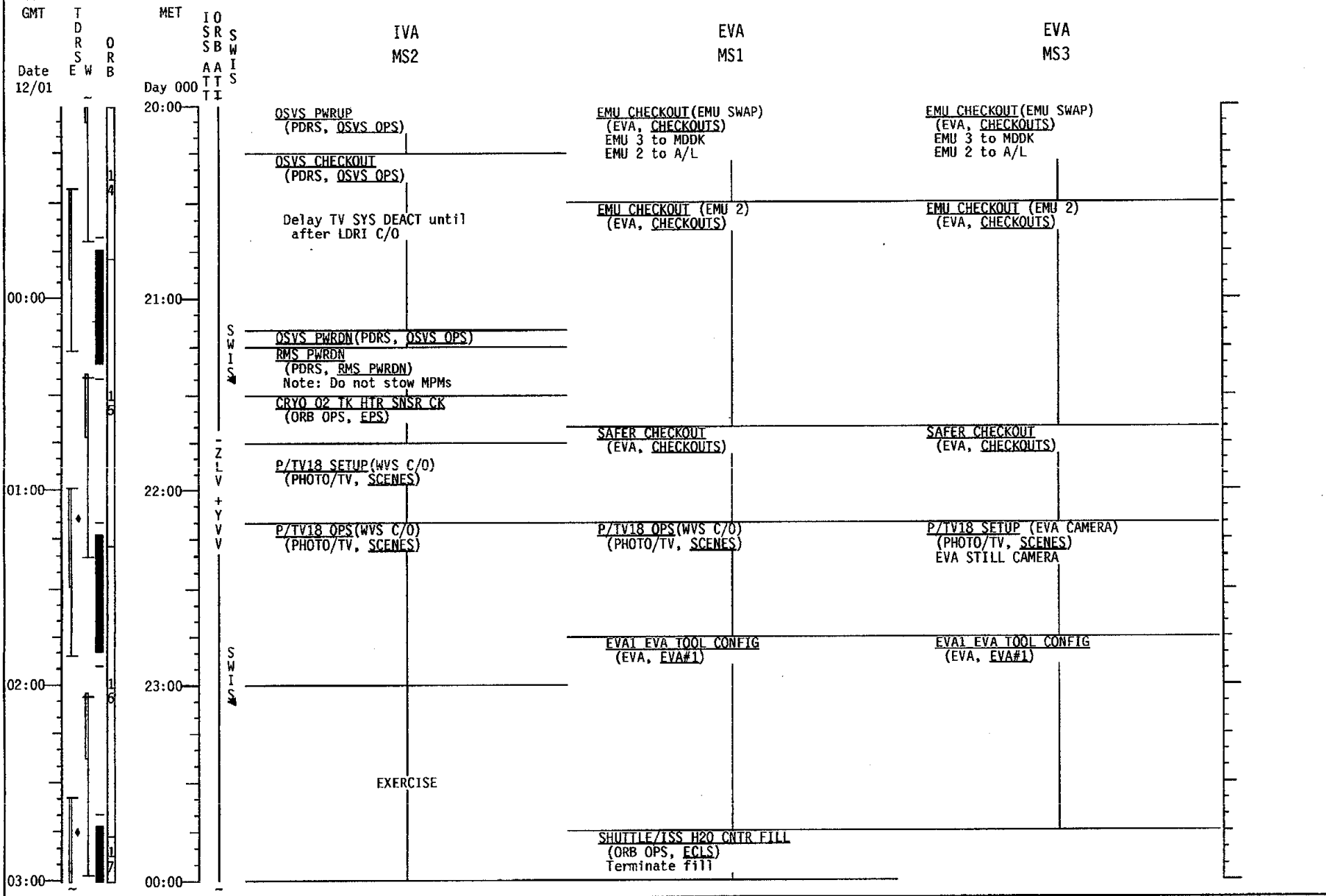


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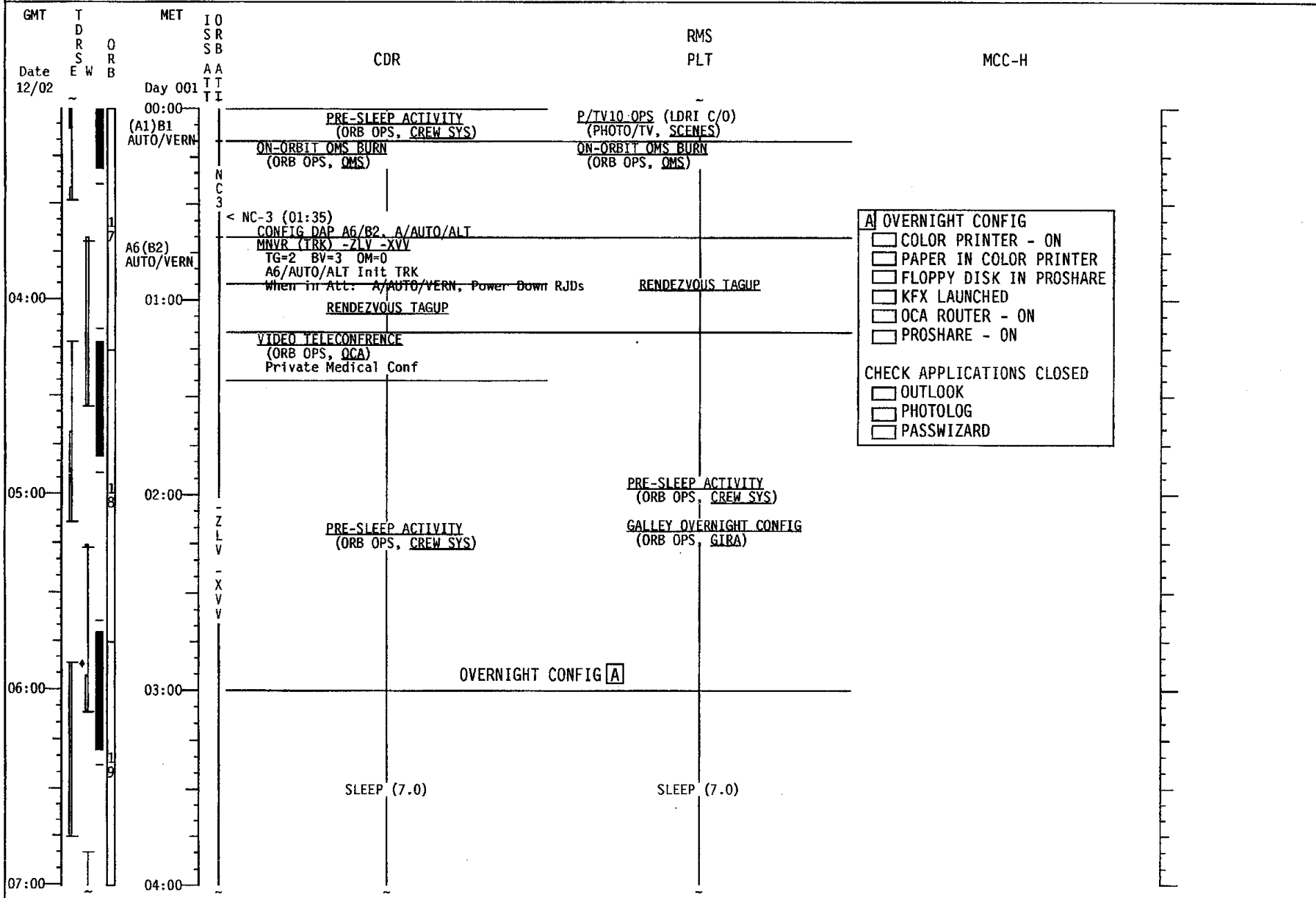


UPDATE
H2O WASTE
DUMP QTY

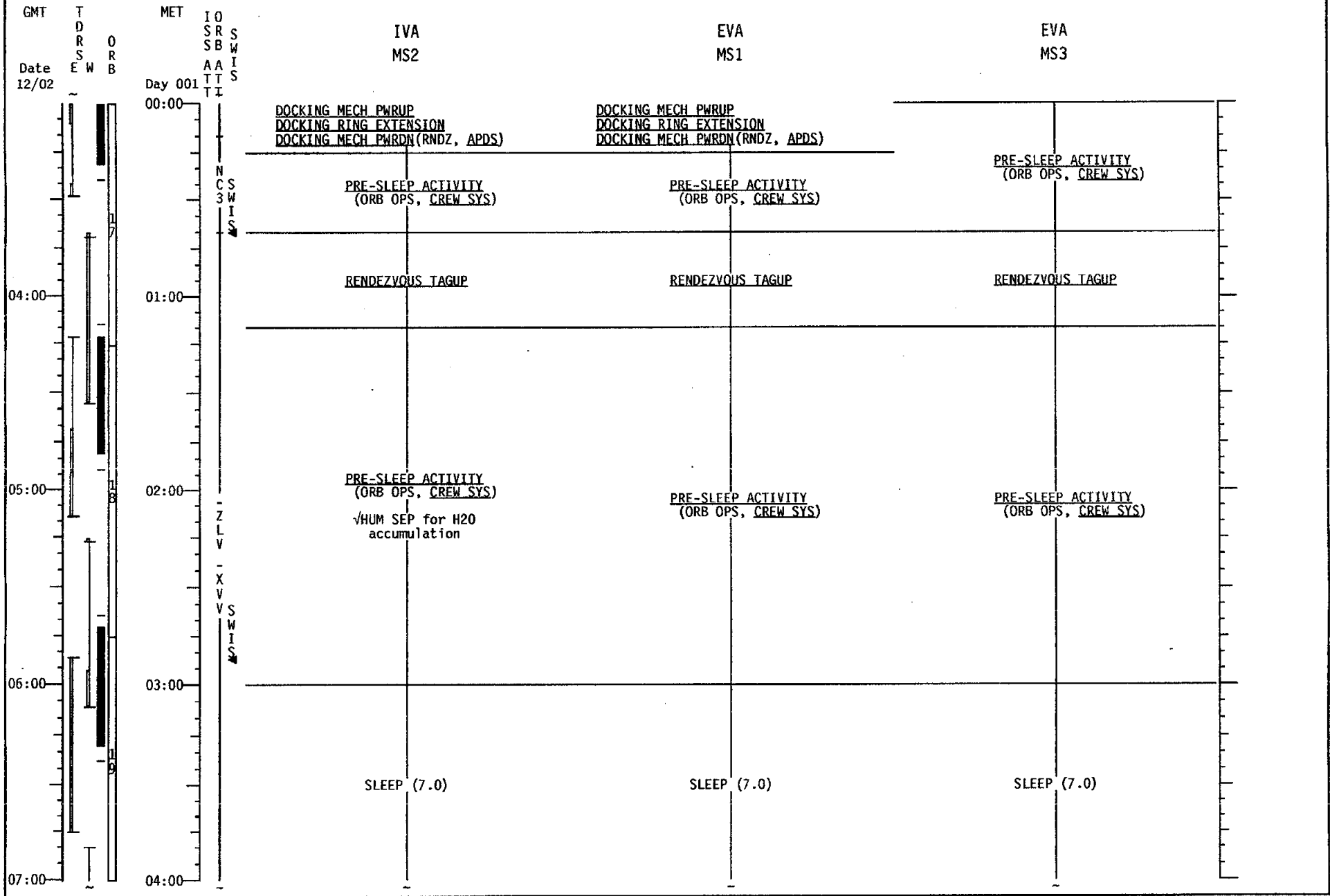
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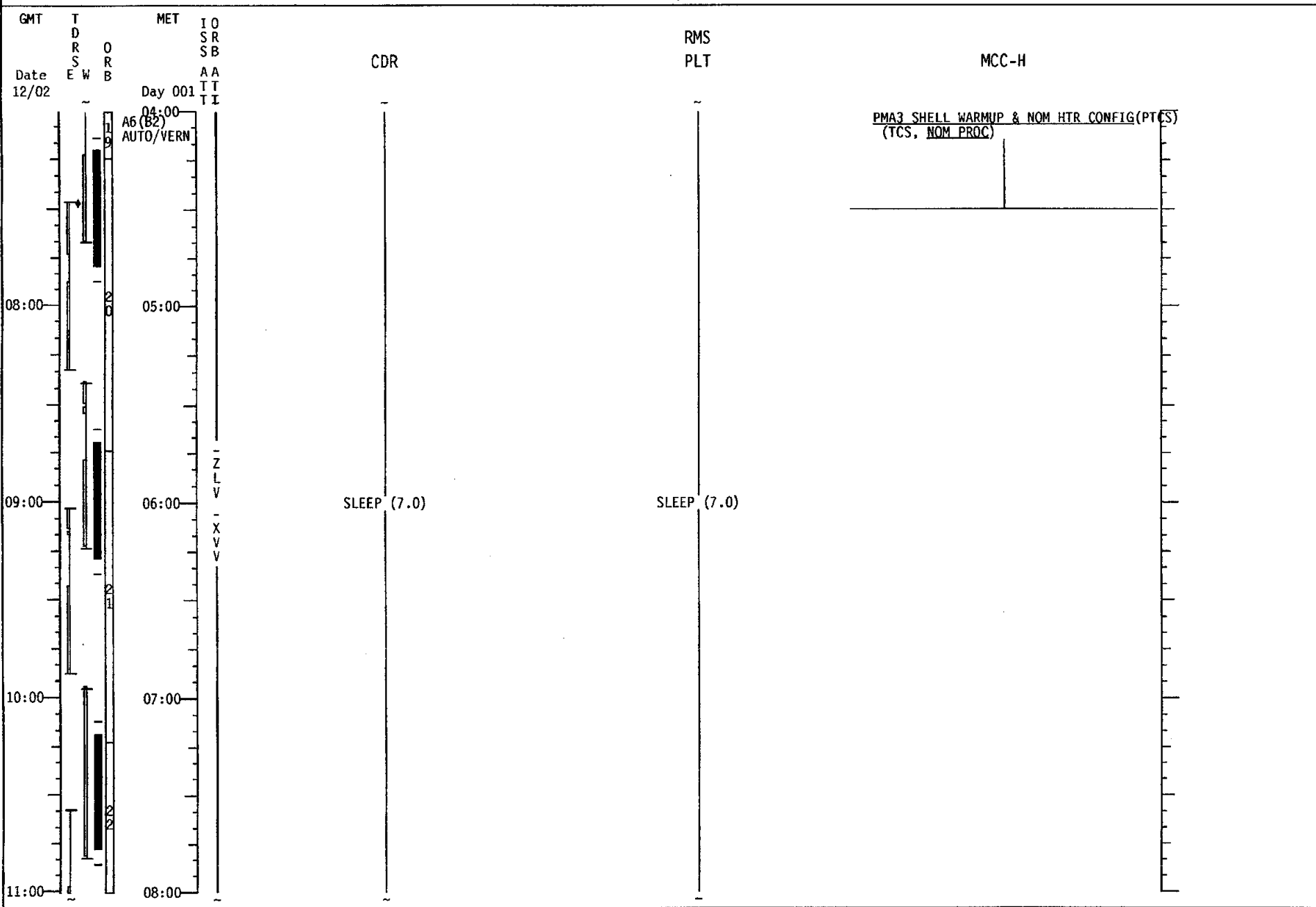
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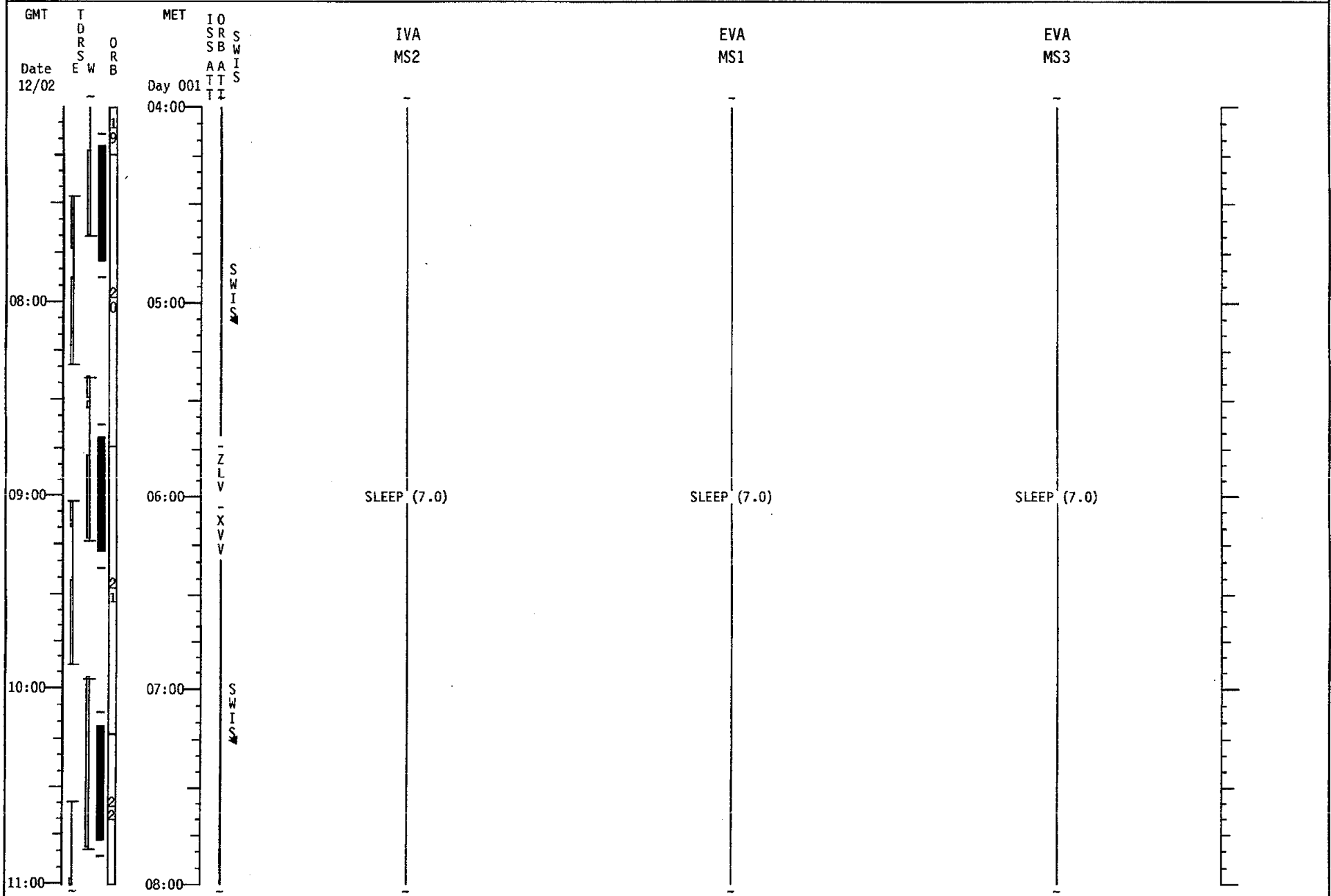
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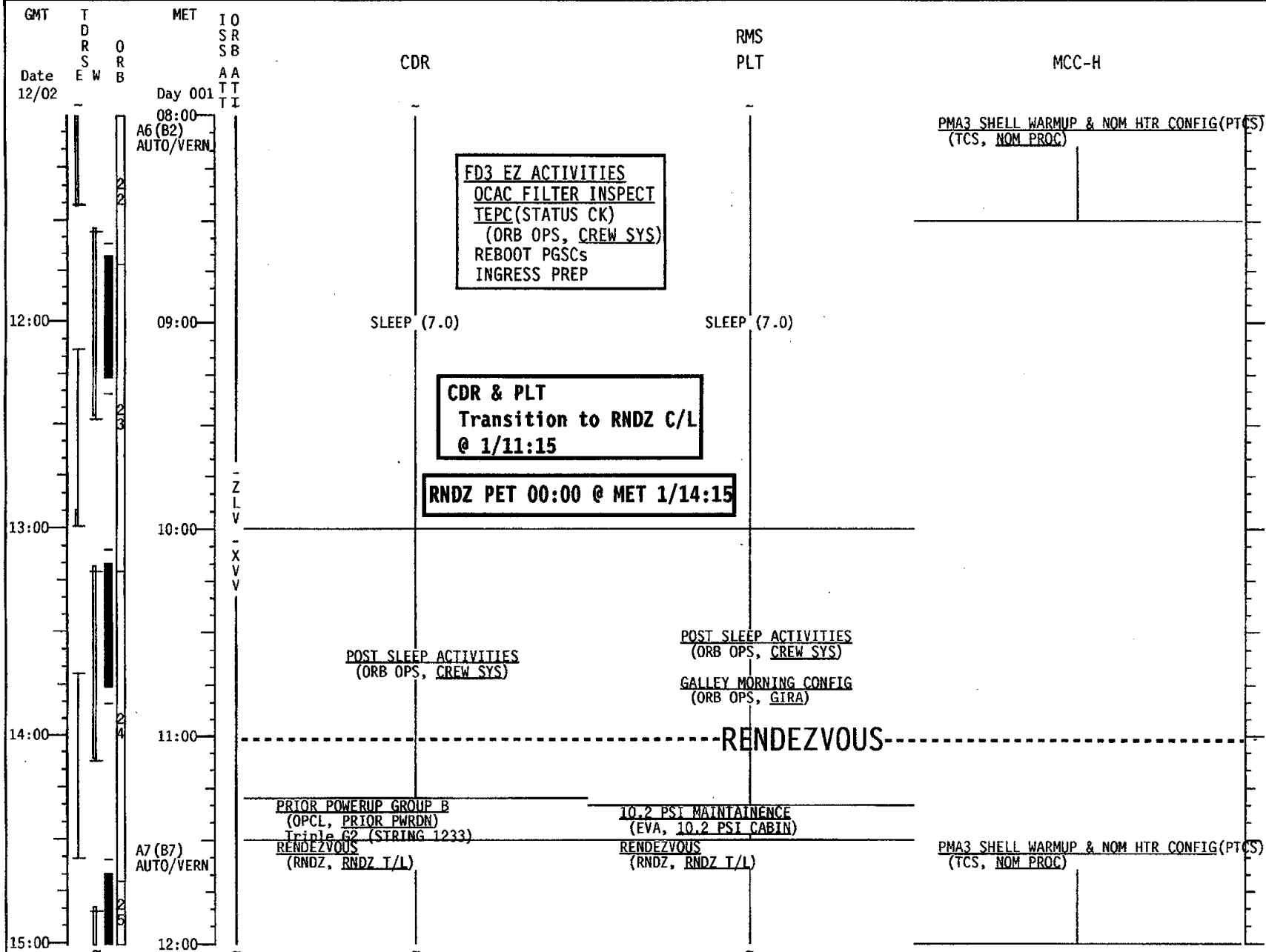
STS-97 (FD 02)



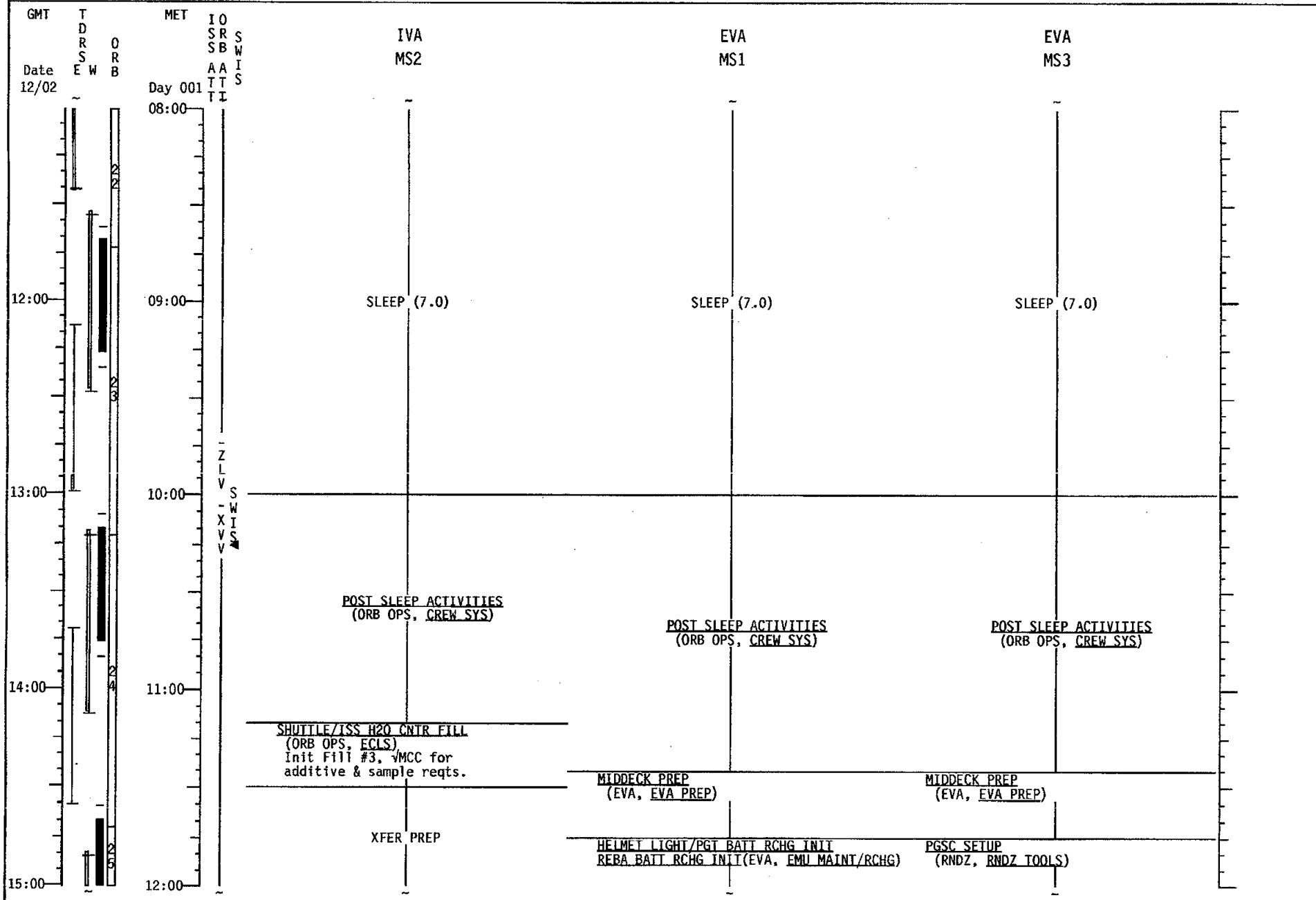
STS-97 (FD 02)



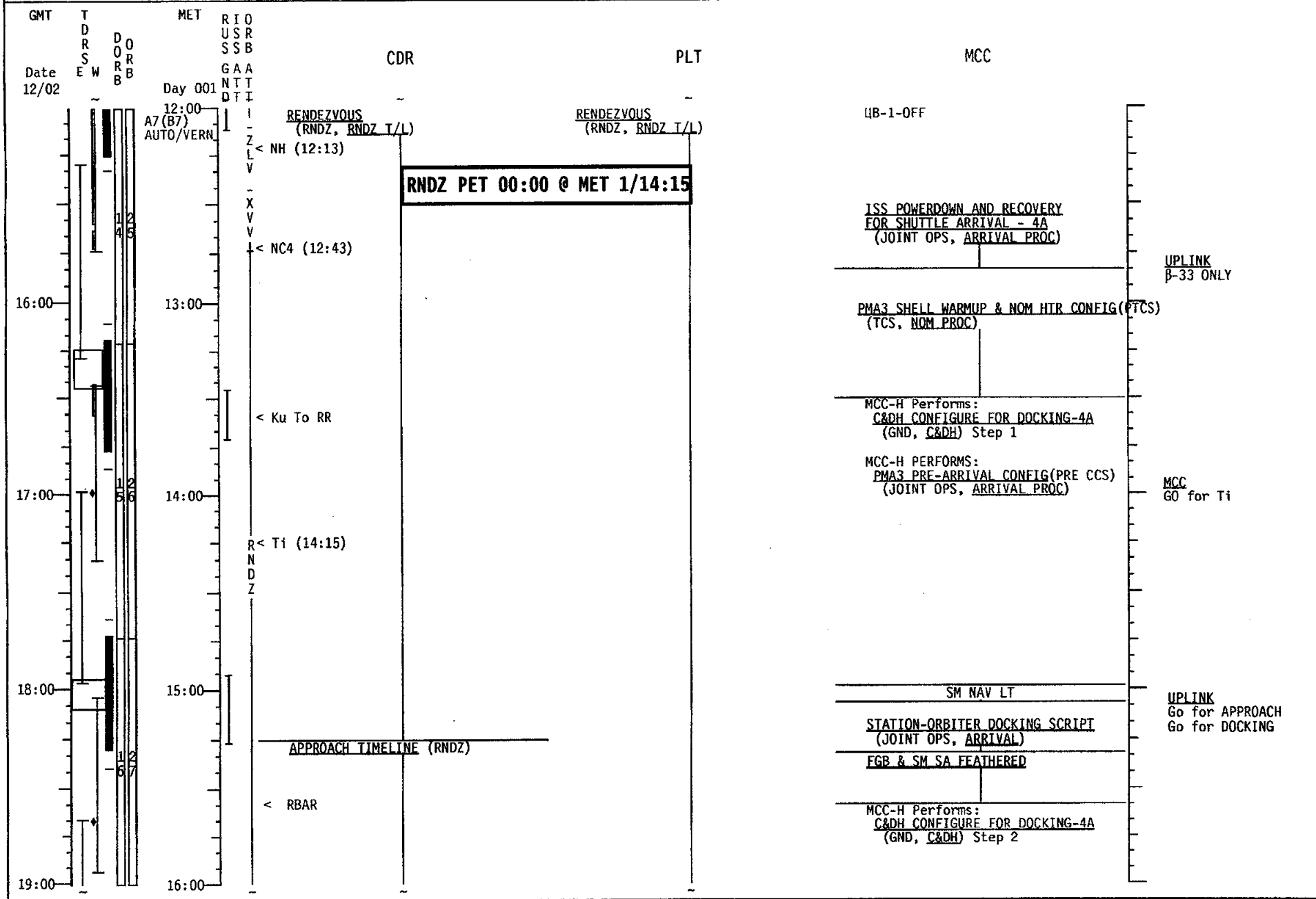
STS-97 (FD 03)



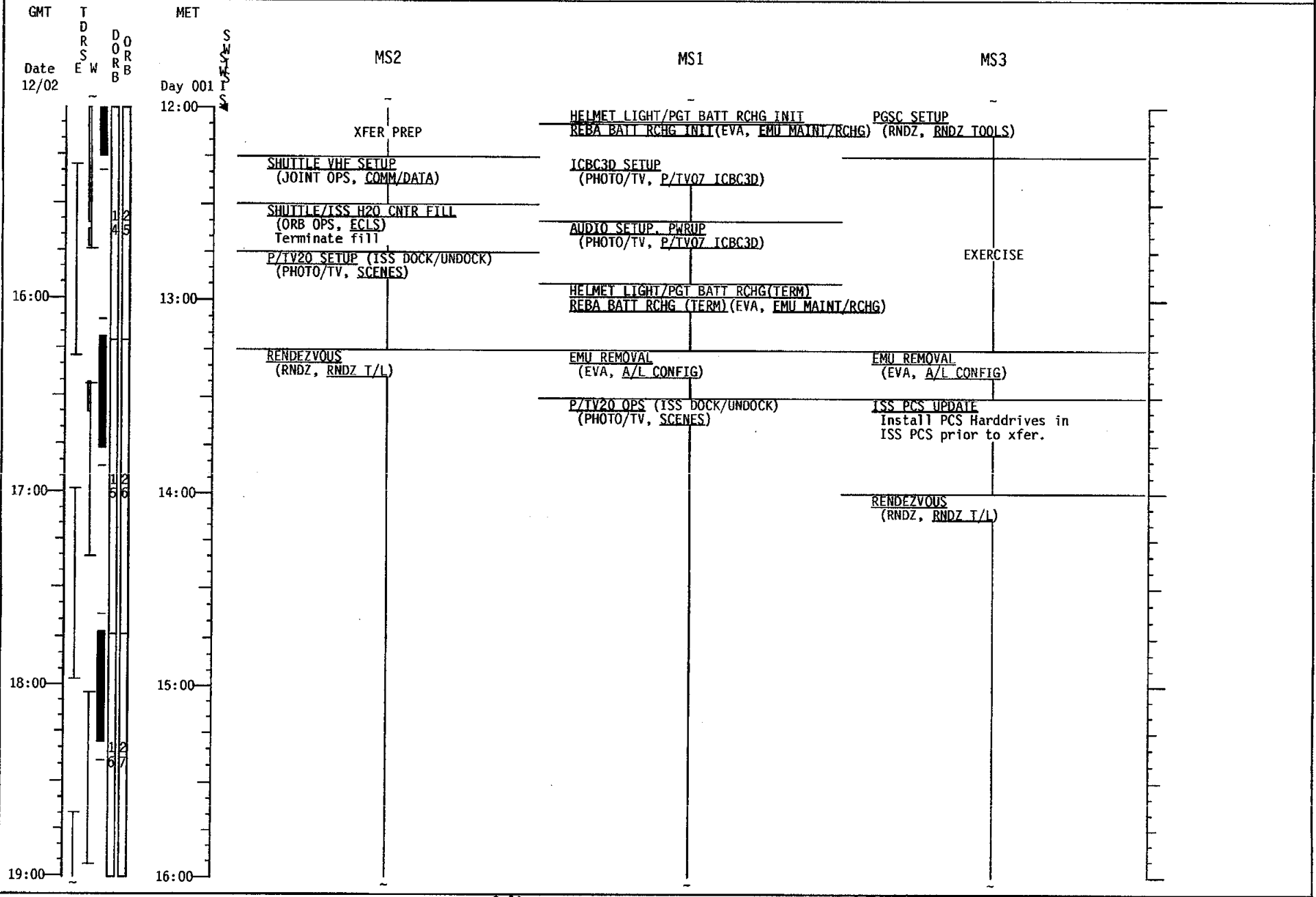
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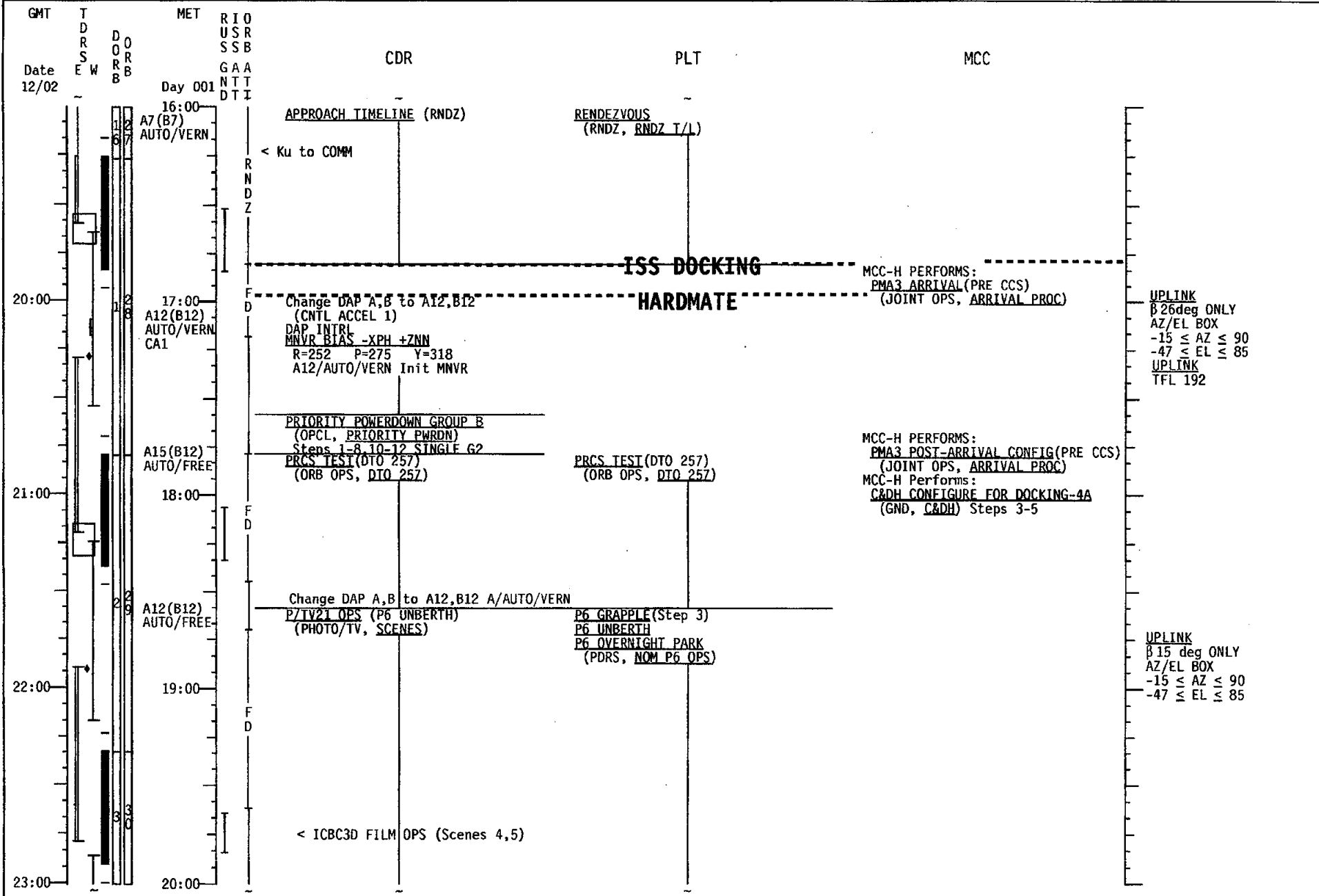
STS-97 (FD 03)



STS-97 (FD 03)



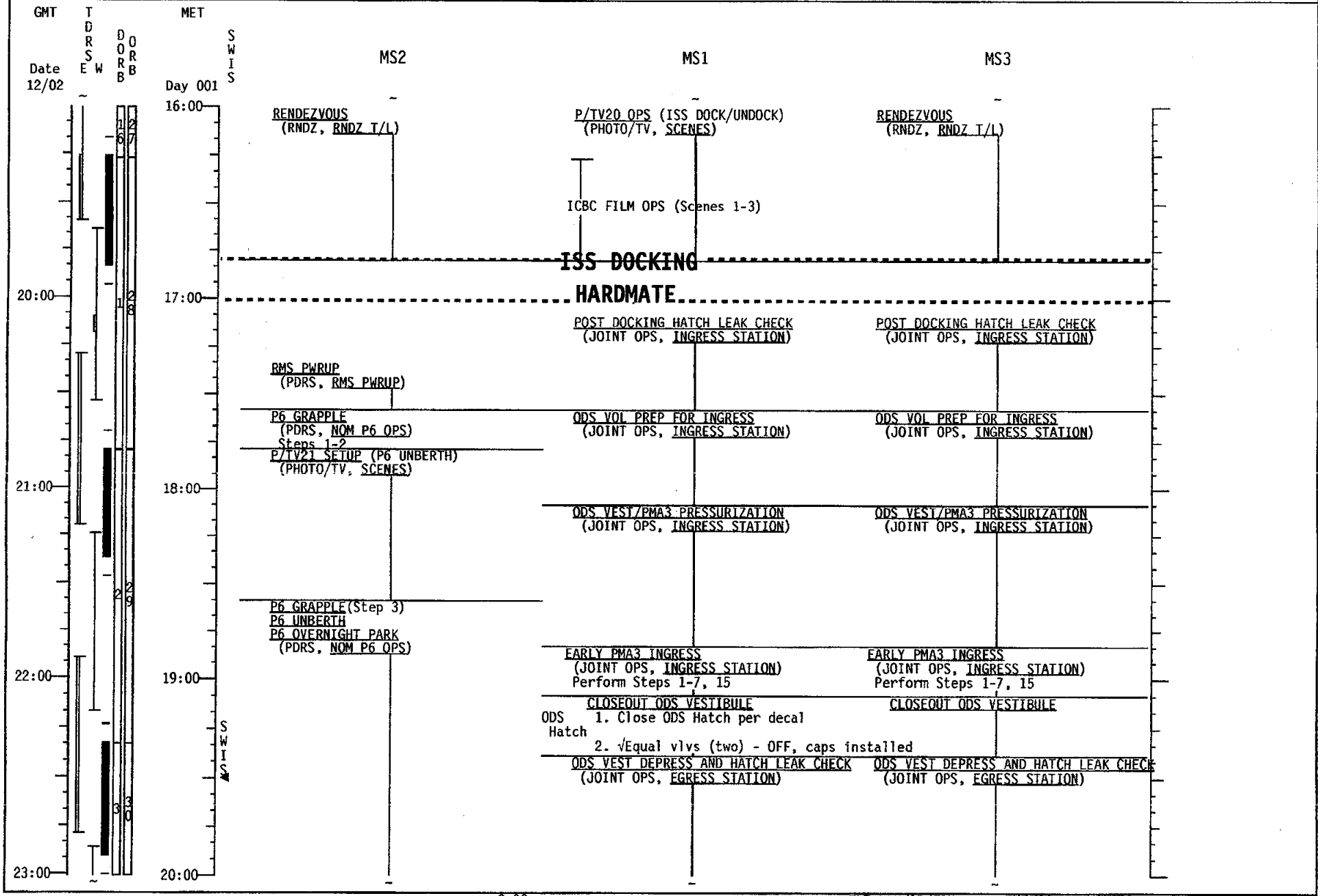
STS-97 (FD 03)



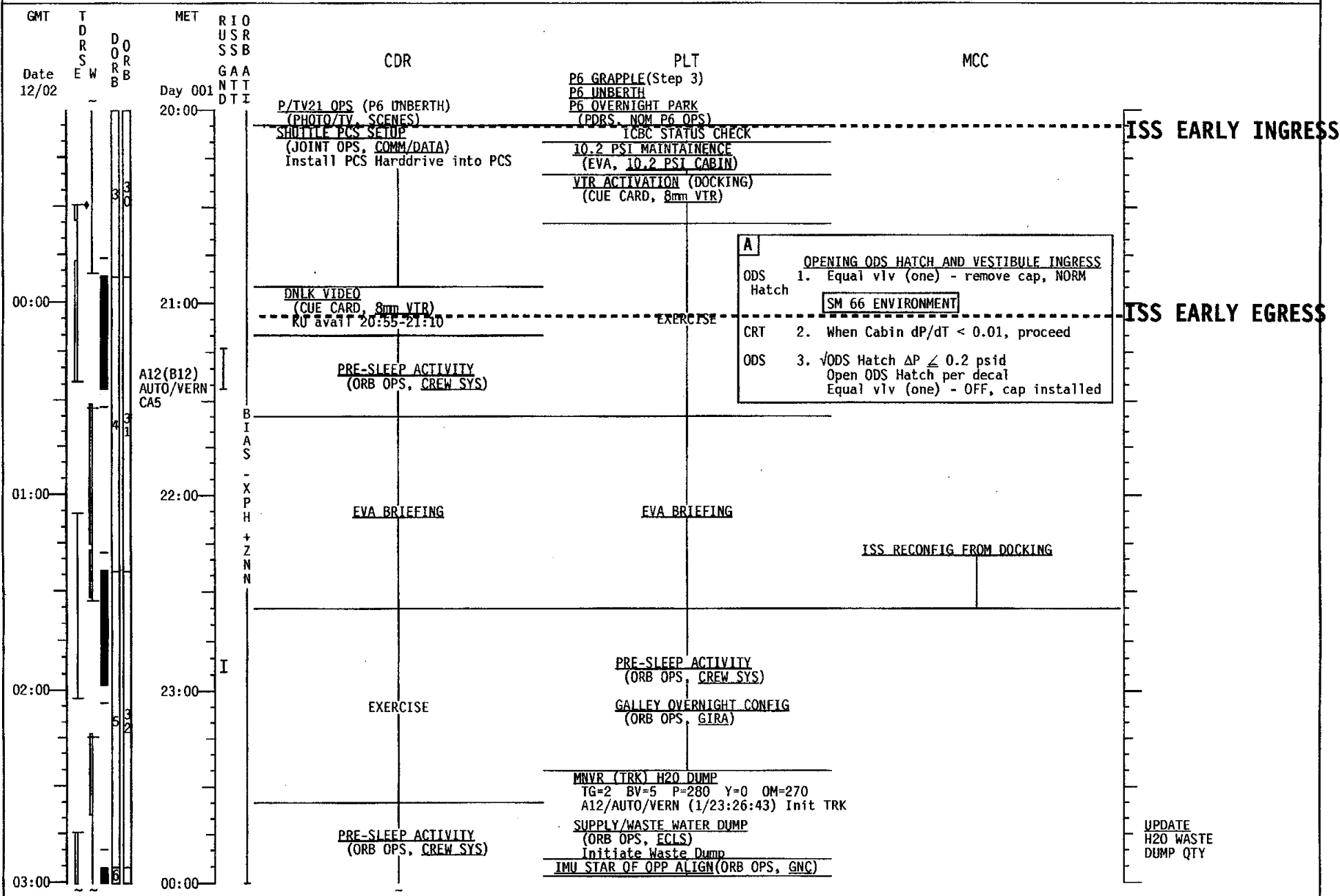
UPLINK
 β 26deg ONLY
 AZ/EL BOX
 -15 ≤ AZ ≤ 90
 -47 ≤ EL ≤ 85
 UPLINK
 TFL 192

UPLINK
 β 15 deg ONLY
 AZ/EL BOX
 -15 ≤ AZ ≤ 90
 -47 ≤ EL ≤ 85

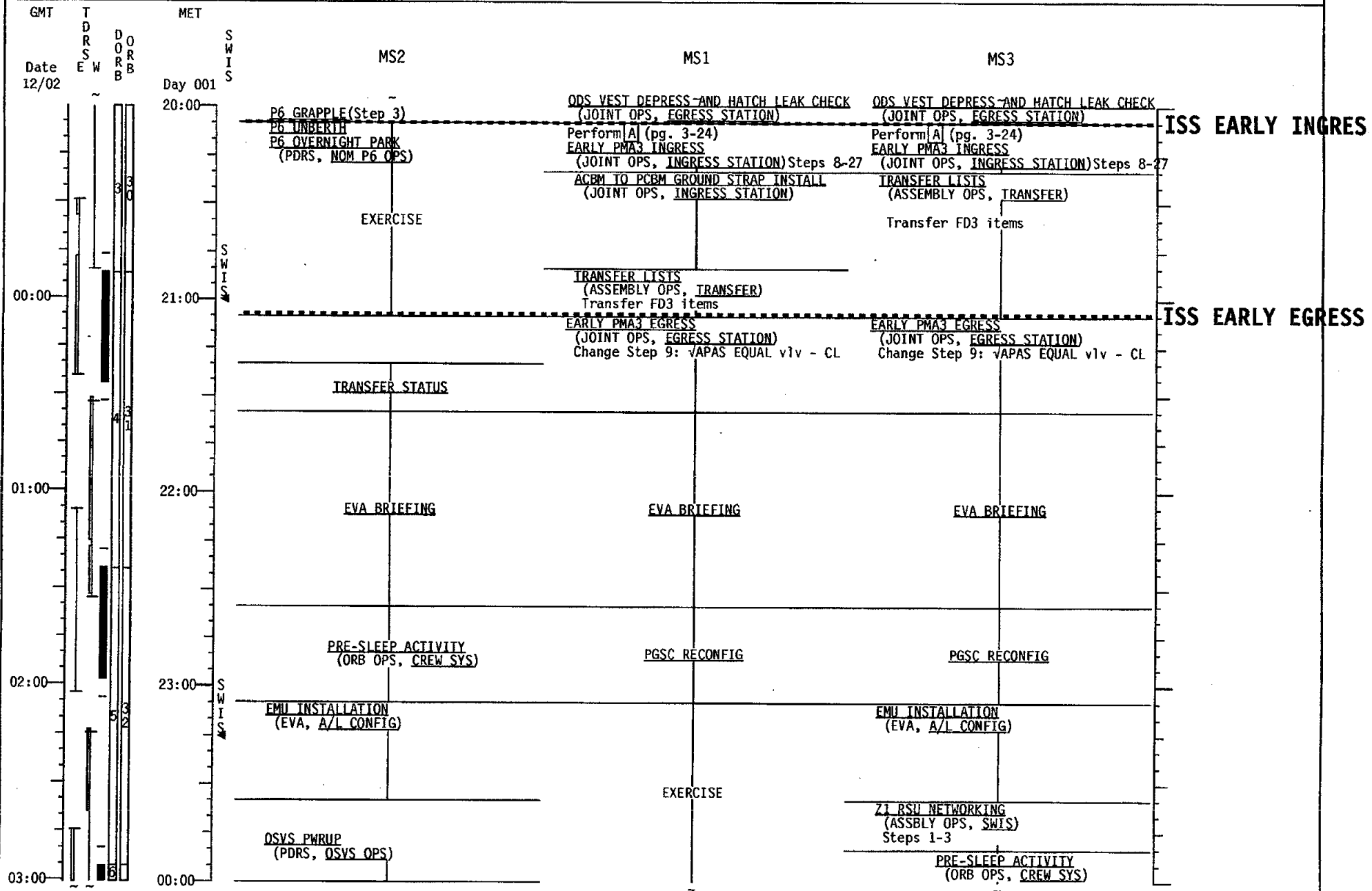
STS-97 (FD 03)



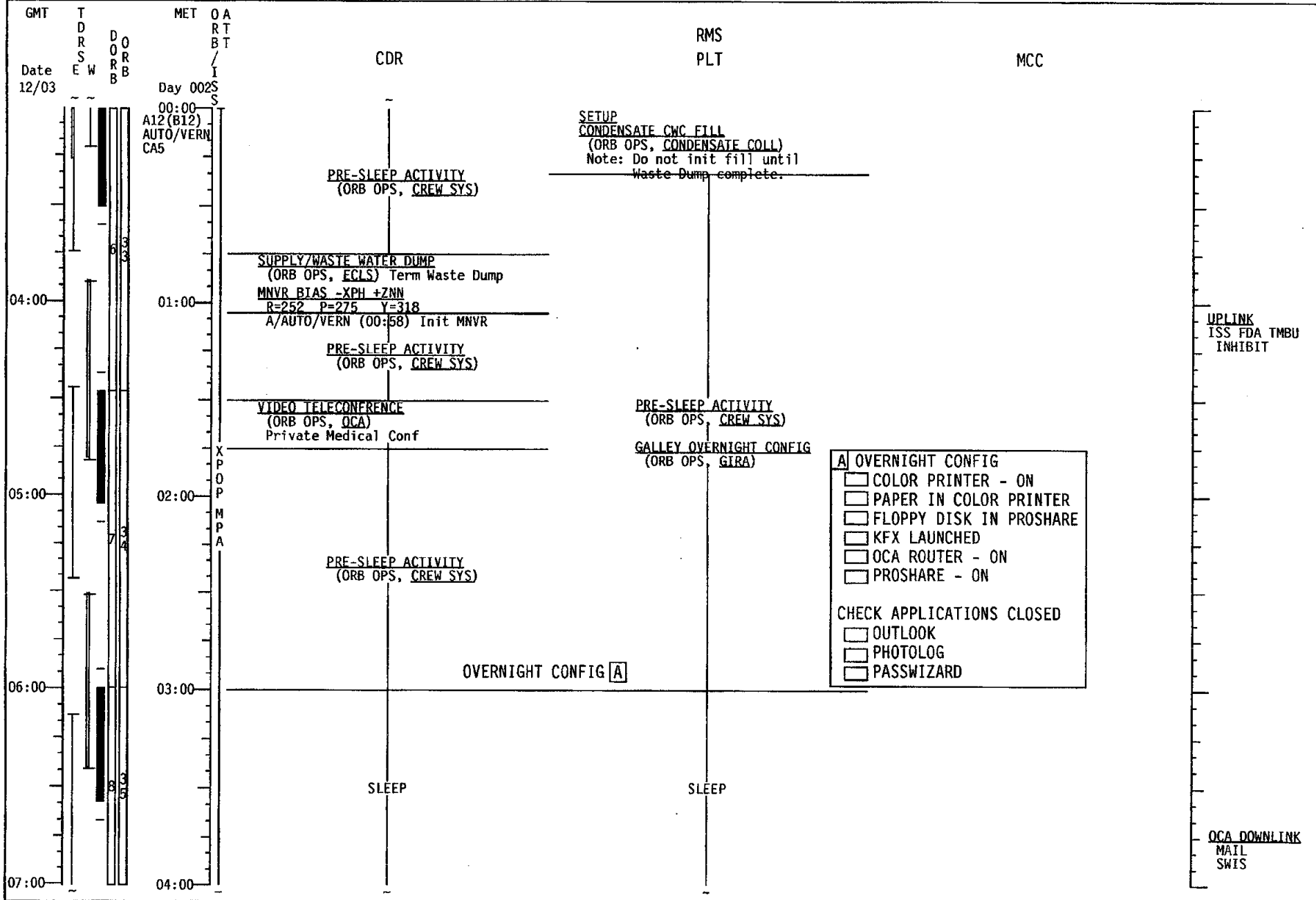
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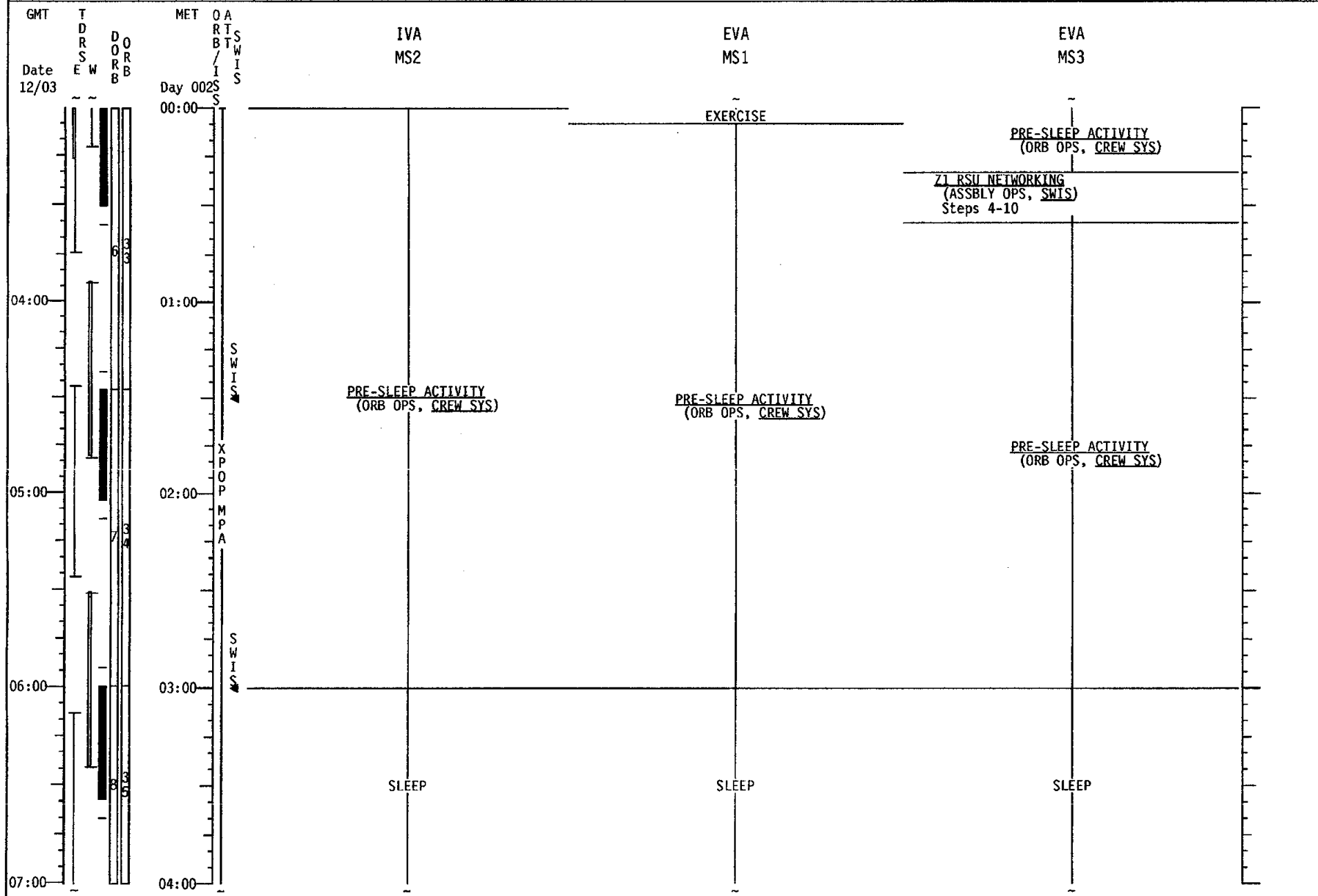
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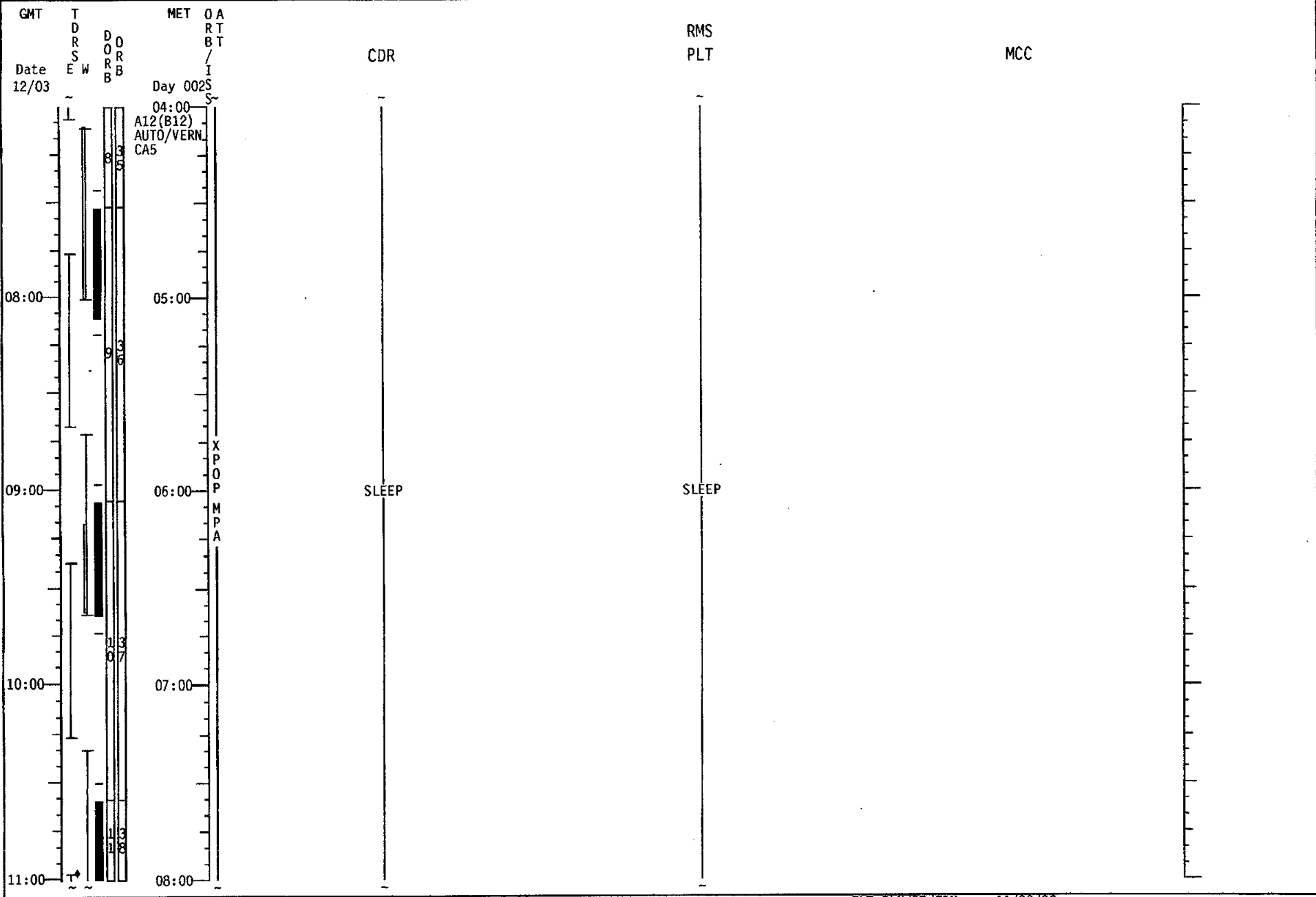
STS-97 (FD 03)



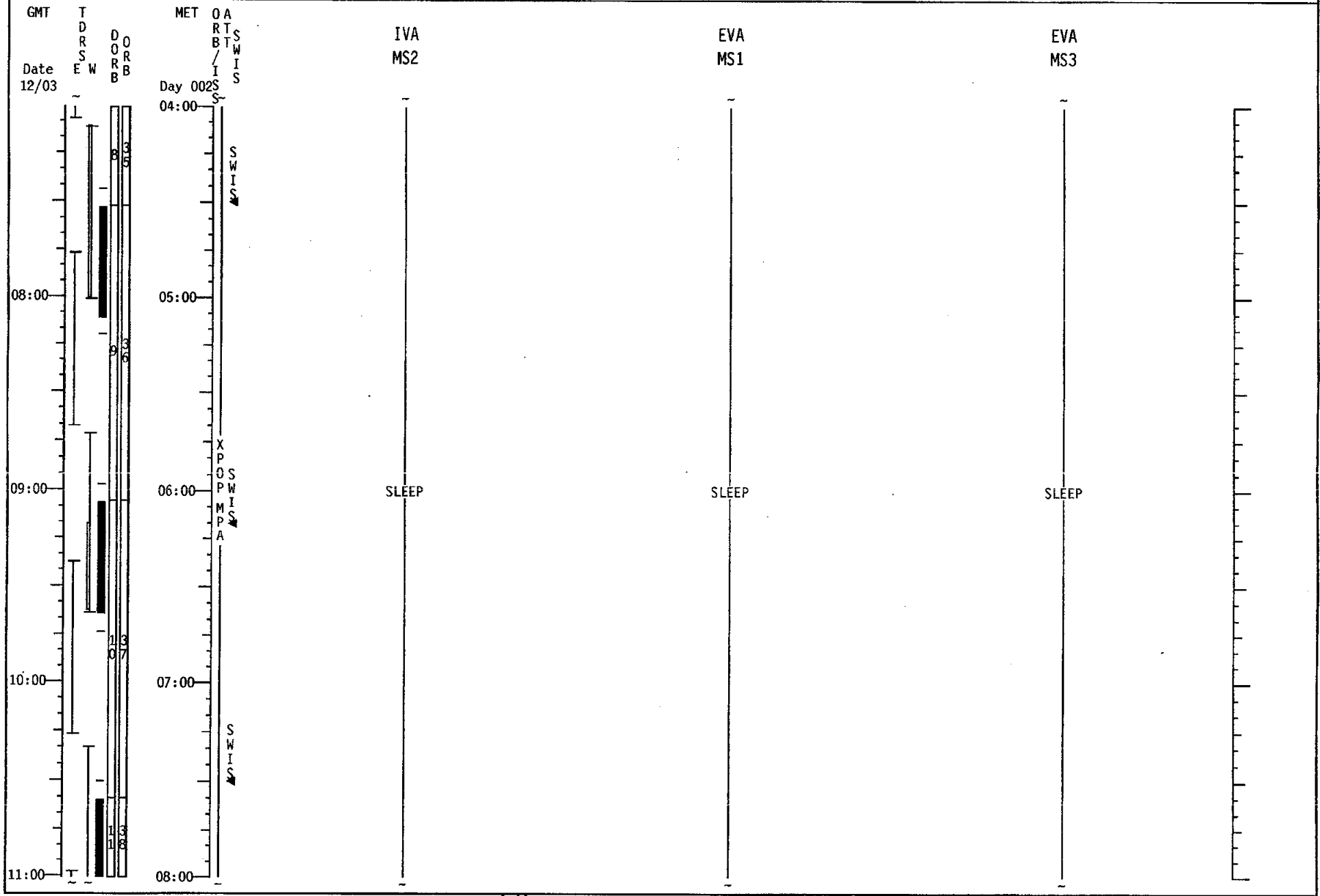
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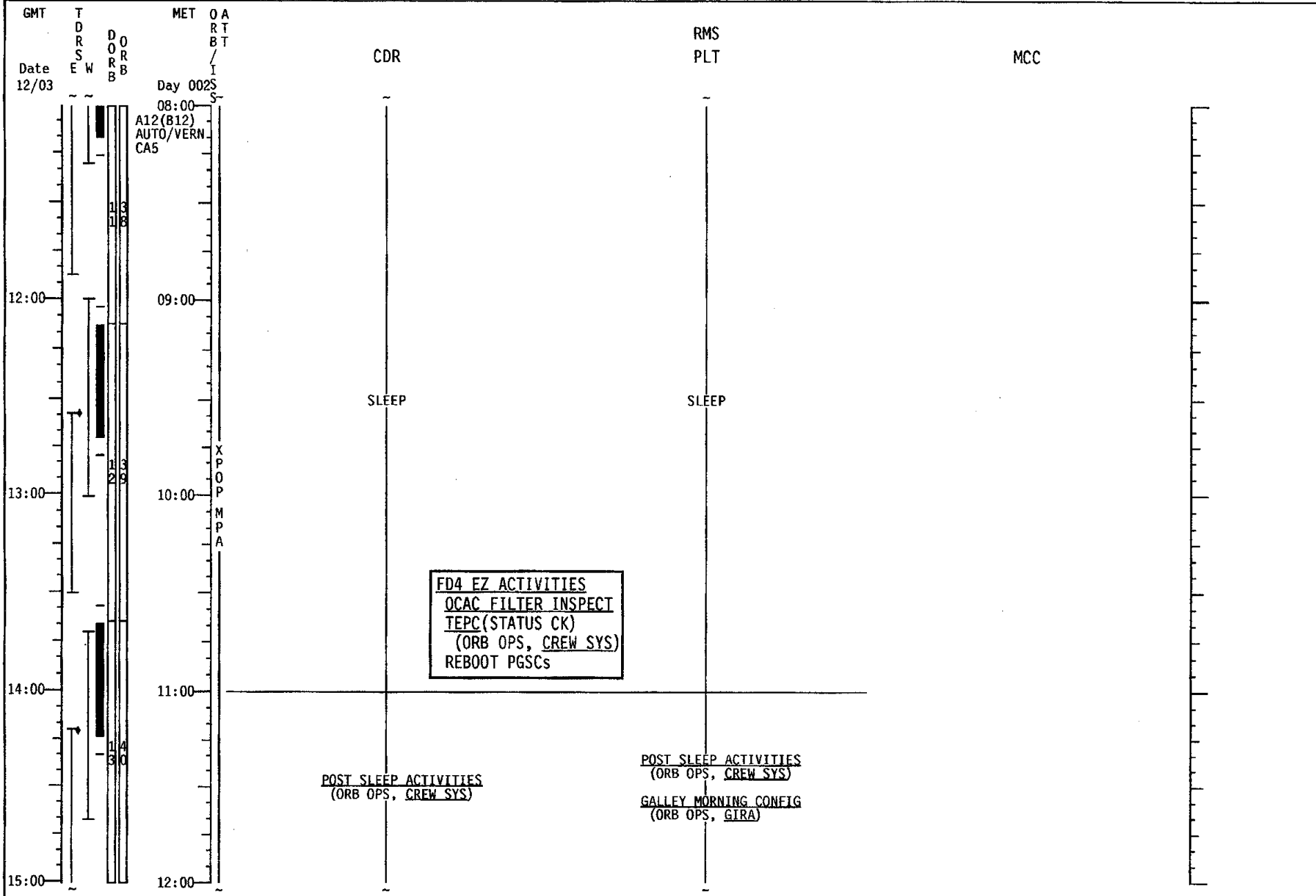
STS-97 (FD 03)



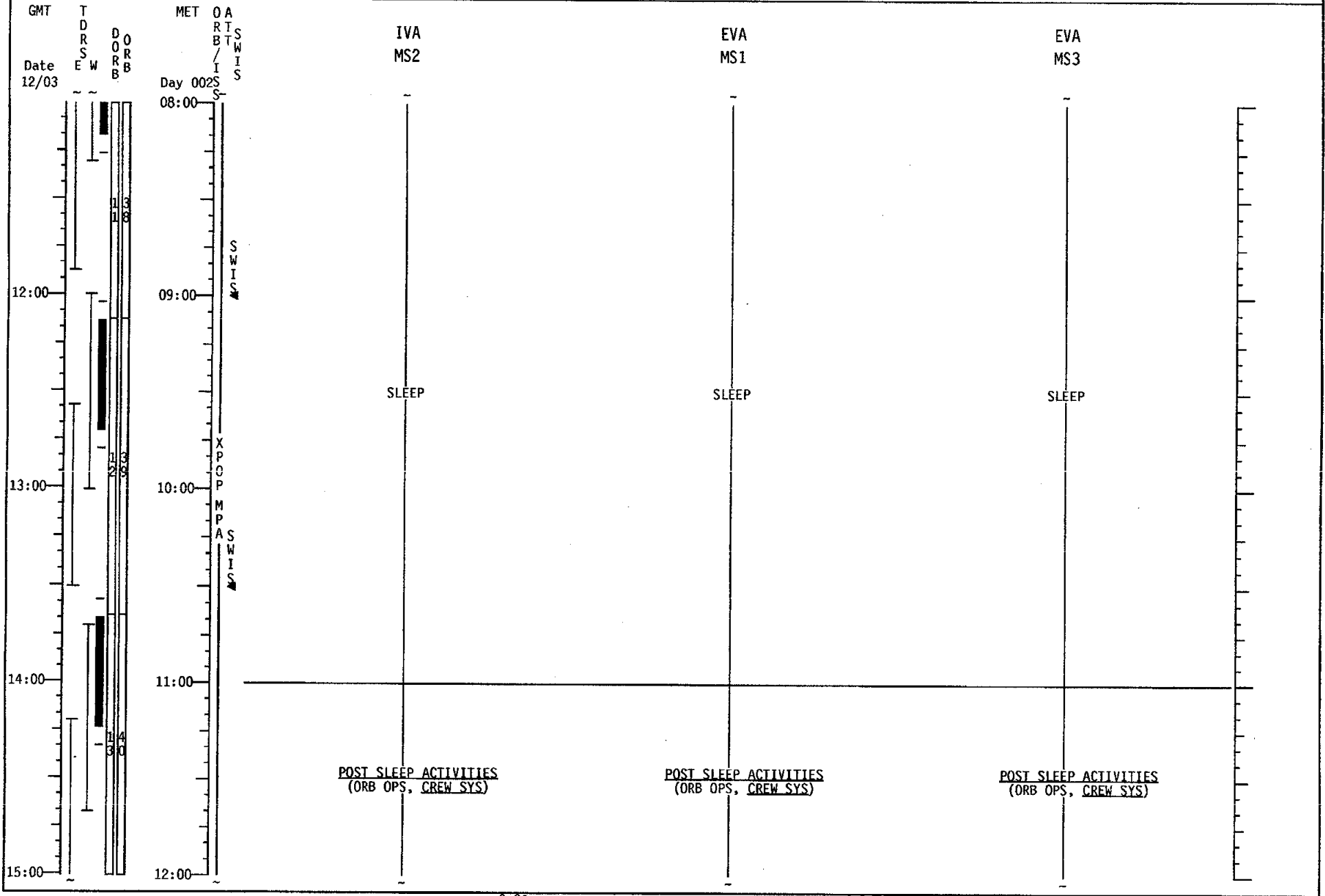
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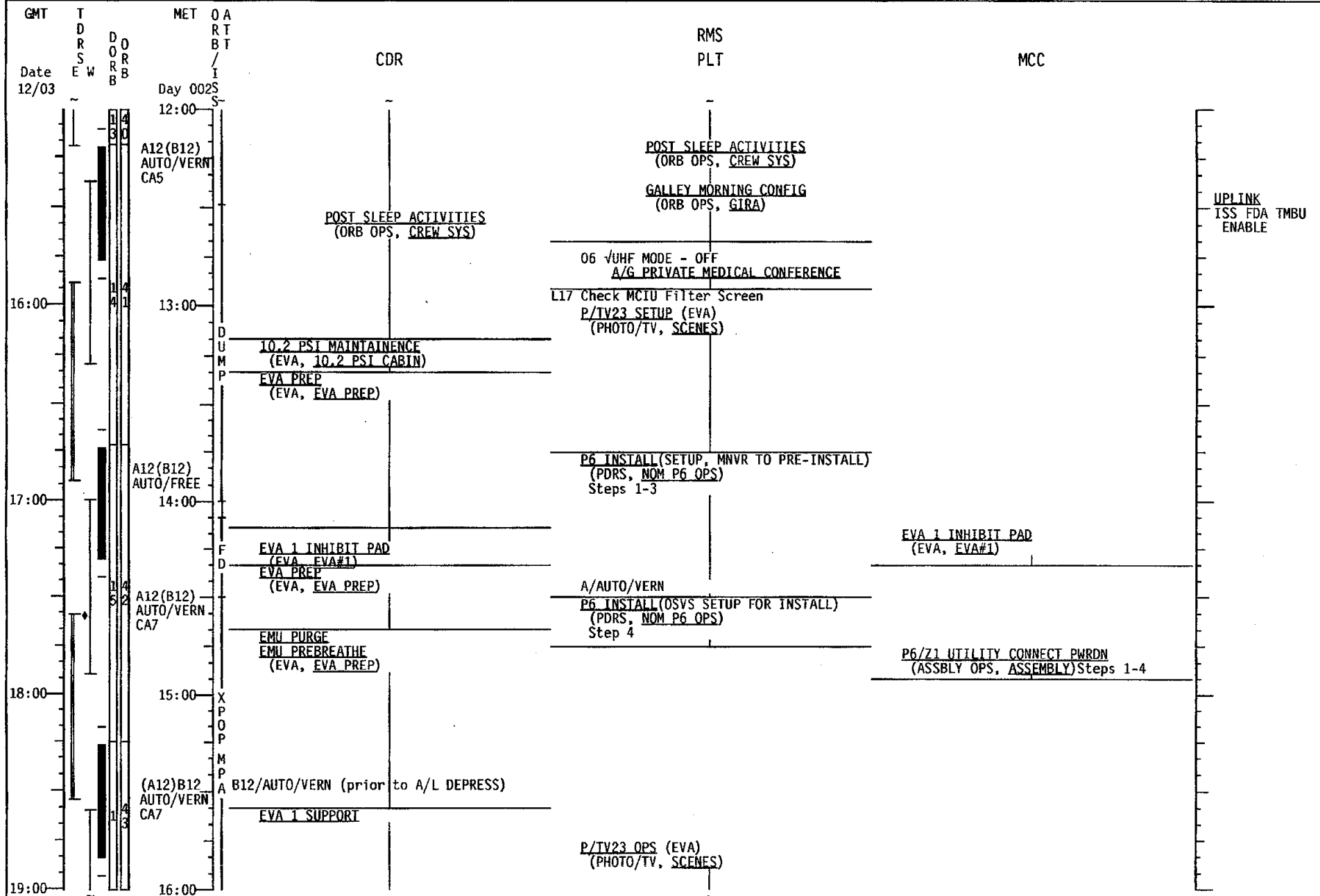
STS-97 (FD 03)



STS-97 (FD 03)

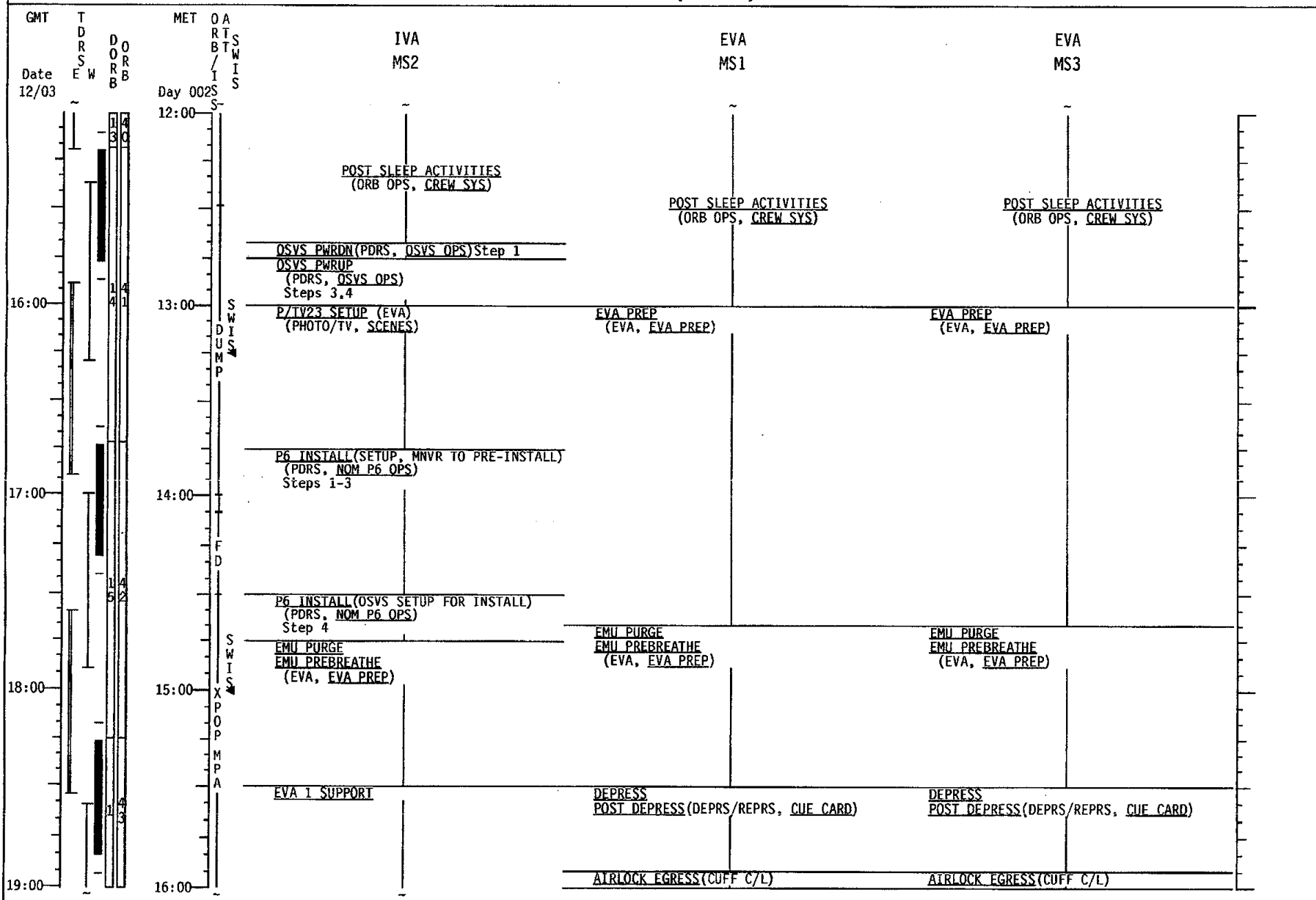


STS-97 (FD 04)

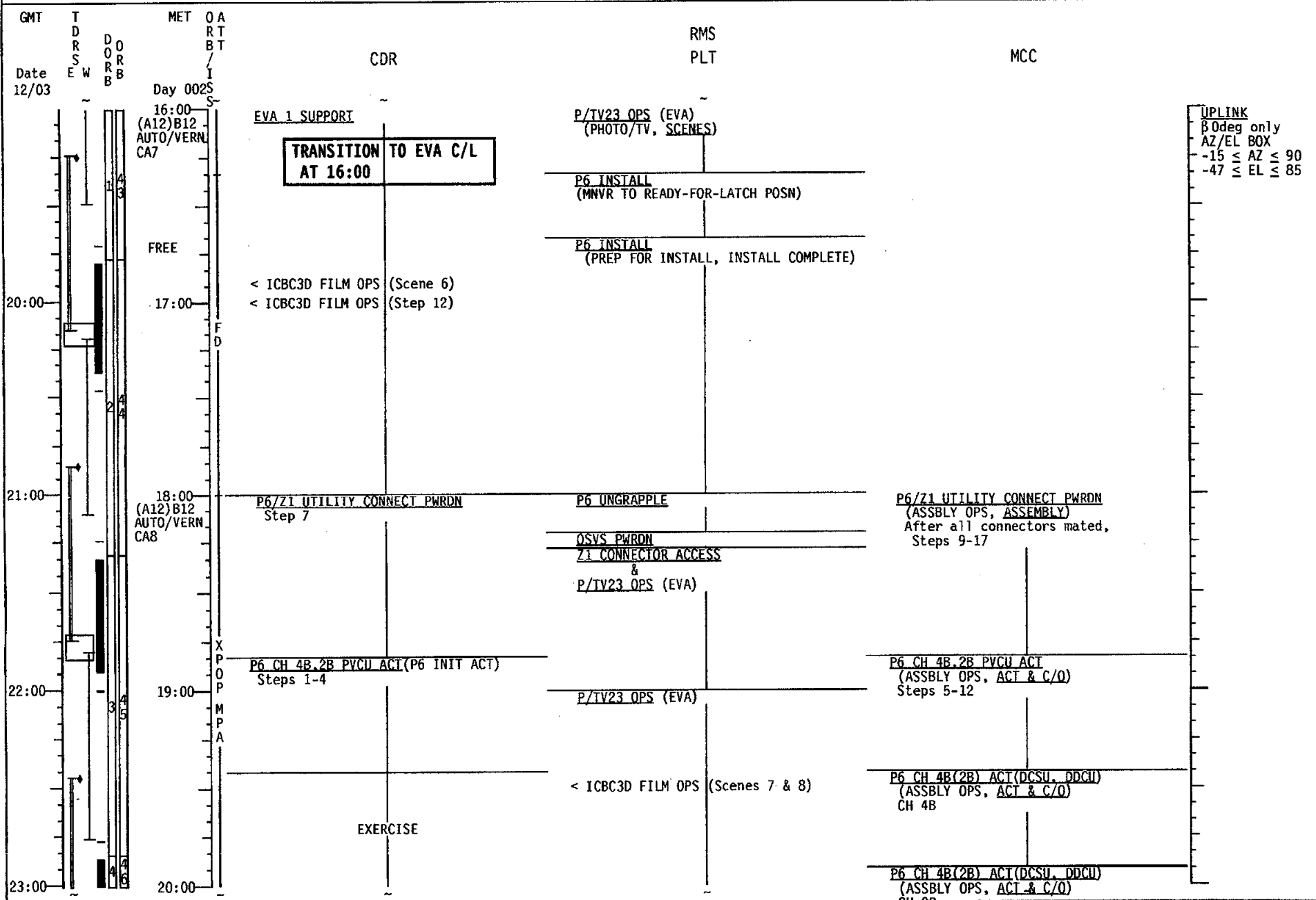


UPLINK
ISS FDA TMBU
ENABLE

STS-97 (FD 04)

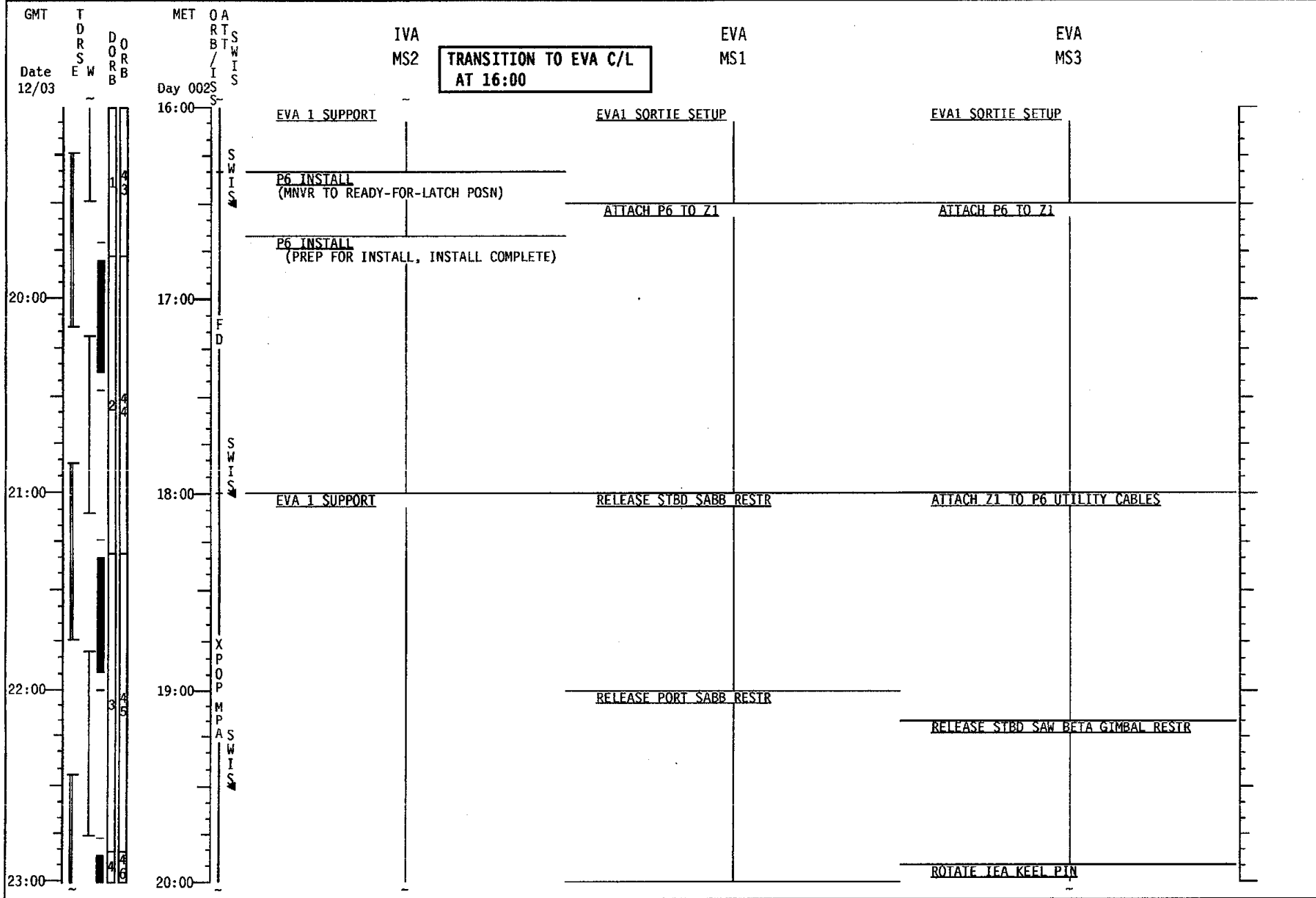


STS-97 (FD 04)

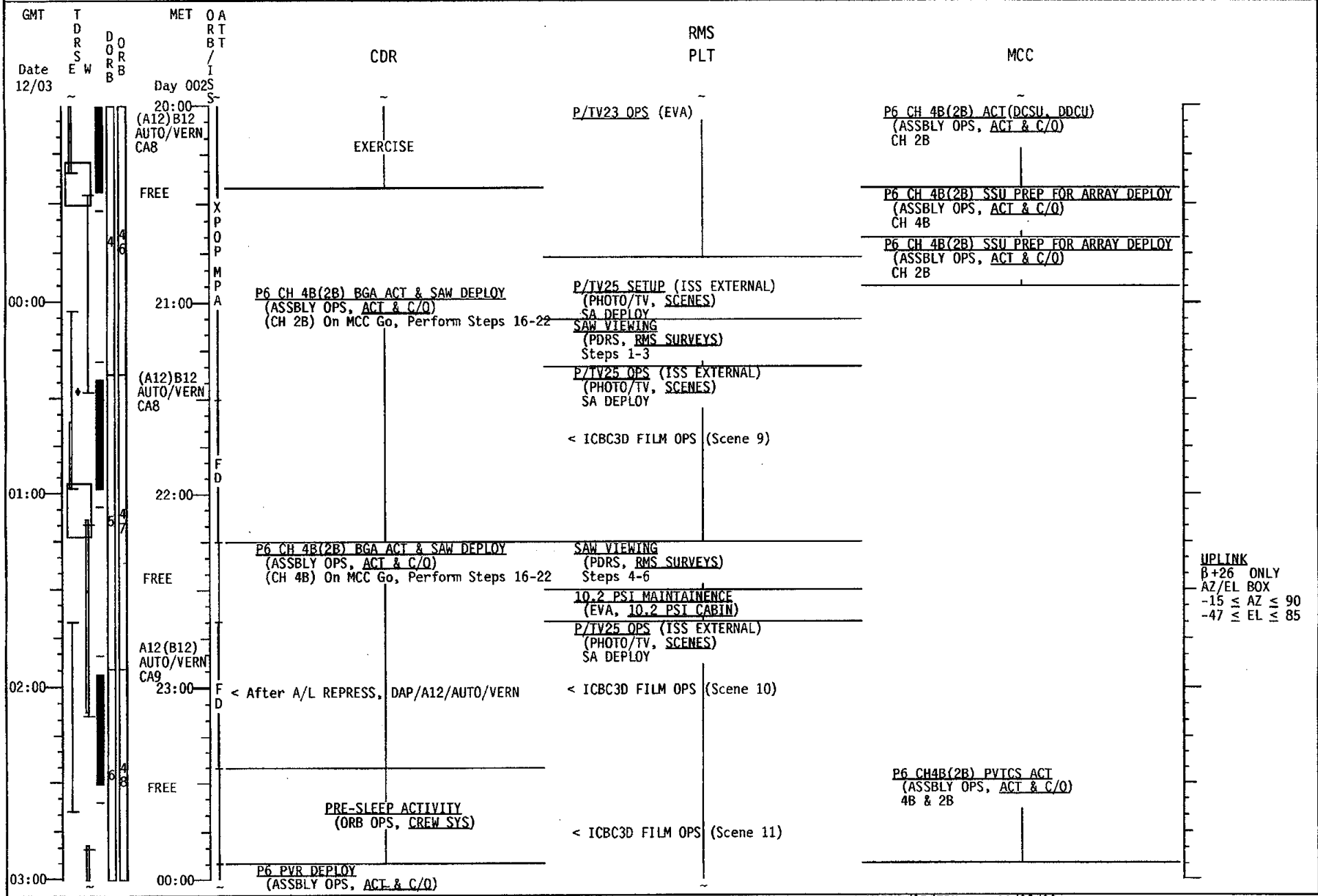


UPLINK
 B 0deg only
 AZ/EL BOX
 -15 ≤ AZ ≤ 90
 -47 ≤ EL ≤ 85

STS-97 (FD 04)



STS-97 (FD 04)

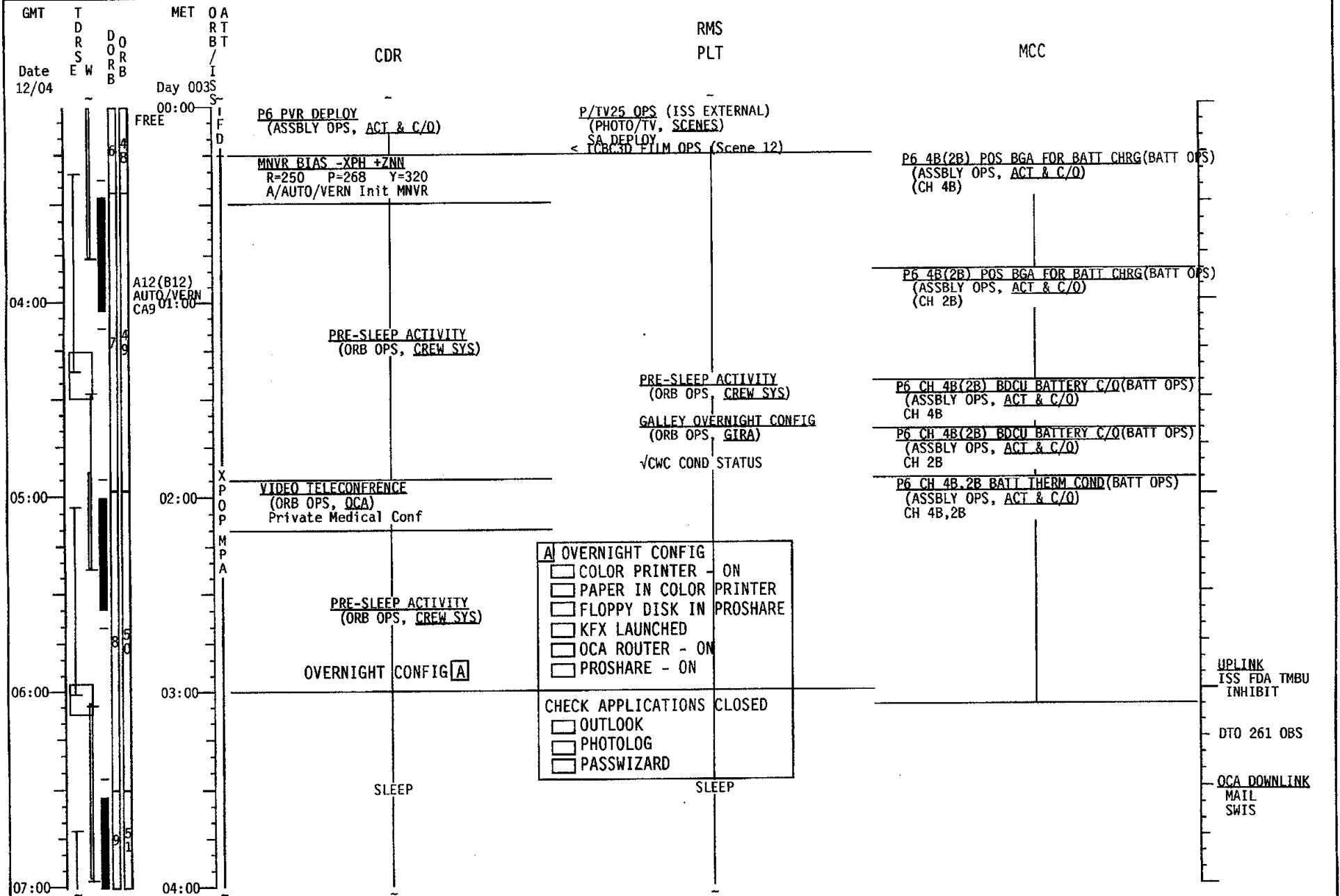


UPLINK
 β+26 ONLY
 AZ/EL BOX
 -15 ≤ AZ ≤ 90
 -47 ≤ EL ≤ 85

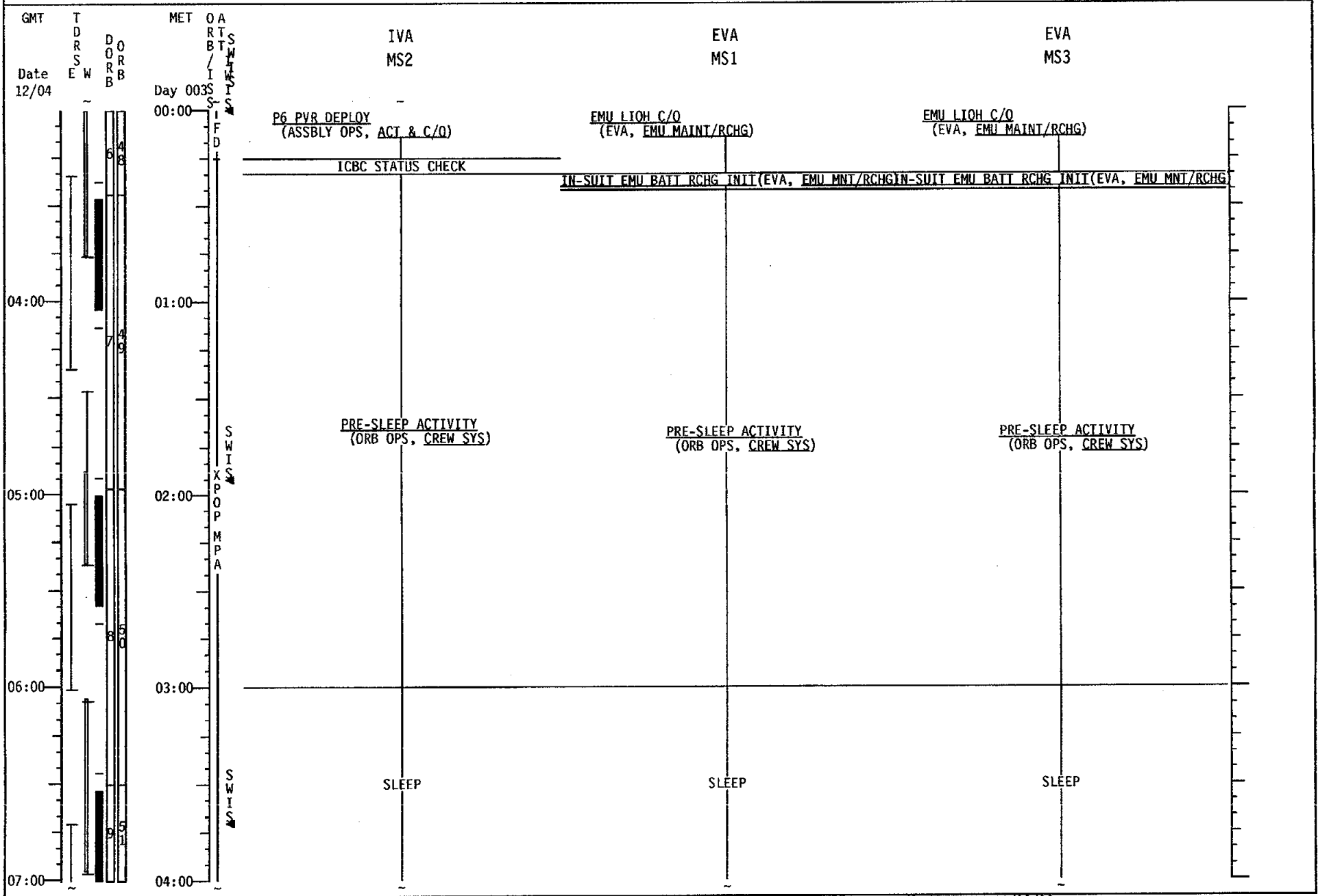
STS-97 (FD 04)

GMT	TDRS Date 12/03	DORB	MET	OARTS BT / I S W I S	IVA MS2	EVA MS1	EVA MS3
			Day 002S 20:00	S	<u>EVA 1 SUPPORT</u>	<u>RELEASE PORT SAW BETA GIMBAL RESTR</u>	<u>ROTATE IEA KEEL PIN</u>
				X P P P M P A		<u>UNSTOW PORT SAW BLKT BOXES</u>	<u>UNSTOW STBD SAW BLKT BOXES</u>
00:00			21:00	A		<u>PHOTO SURVEY C/L(EVA1)</u>	<u>RELEASE PV RADIATOR CINCH & WINCH</u>
				S W I S			<u>PHOTO SURVEY C/L(EVA1)</u>
01:00			22:00	F D		<u>EVA1 SORTIE CLEANUP</u>	<u>EVA1 SORTIE CLEANUP</u>
						<u>AIRLOCK INGRESS(CUFF C/L)</u>	<u>AIRLOCK INGRESS(CUFF C/L)</u>
						<u>PRE REPRESS(DEPRS/REPRS, CUE CARD)</u>	<u>PRE REPRESS(DEPRS/REPRS, CUE CARD)</u>
						<u>REPRESS (DEPRS/REPRS, CUE CARD)</u>	<u>REPRESS (DEPRS/REPRS, CUE CARD)</u>
					<u>POST EVA (EVA, POST EVA)</u> Perform all steps	<u>POST EVA (EVA, POST EVA)</u> Perform all steps	<u>POST EVA (EVA, POST EVA)</u> Perform all steps
02:00			23:00	F D			
					<u>RMS PWRDN (PDRS, RMS PWRDN)</u> Note: Do not stow MPMS		
03:00			00:00	I W I S	<u>P6 PVR DEPLOY (ASSBLY OPS, ACT & C/O)</u>		

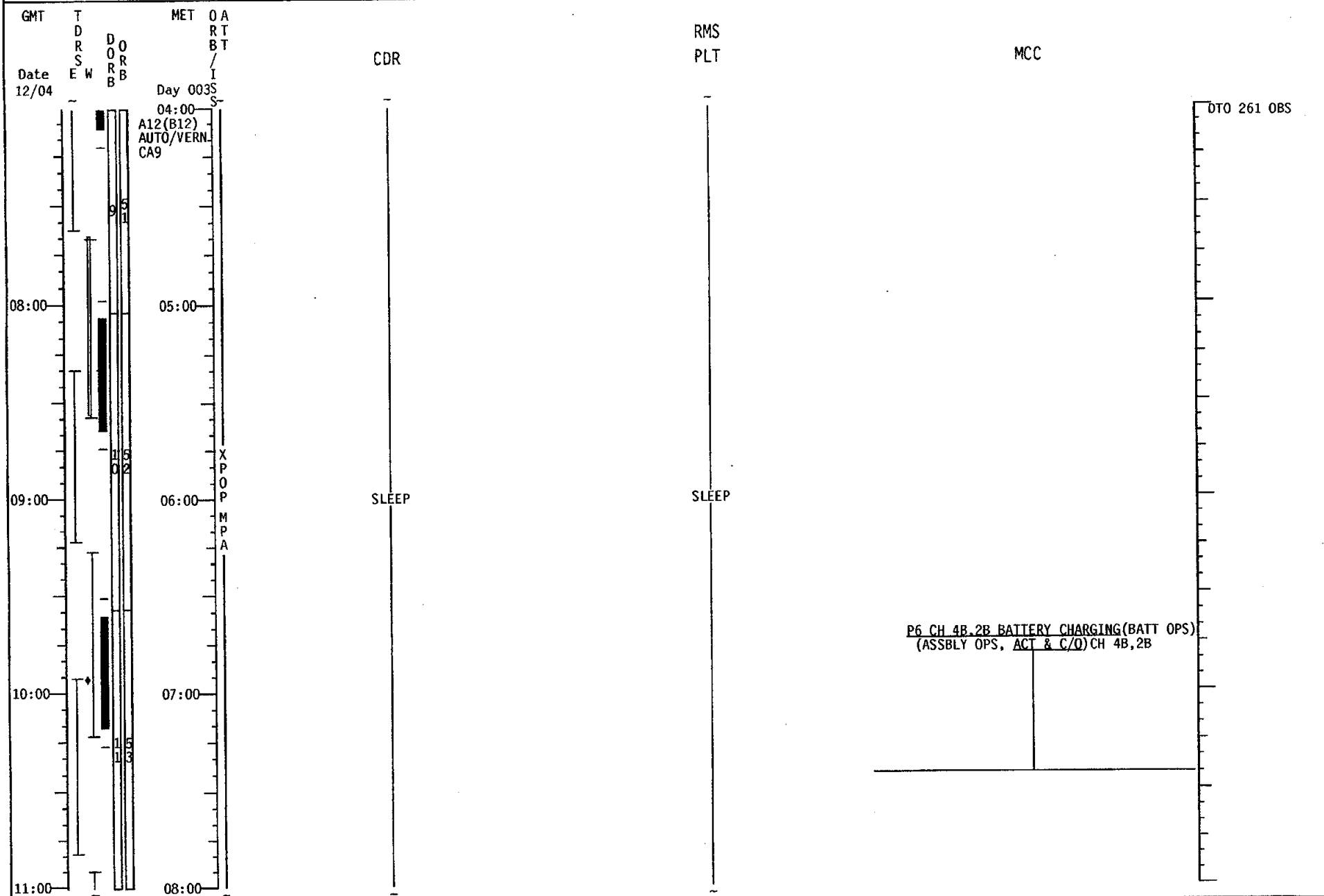
STS-97 (FD 04)



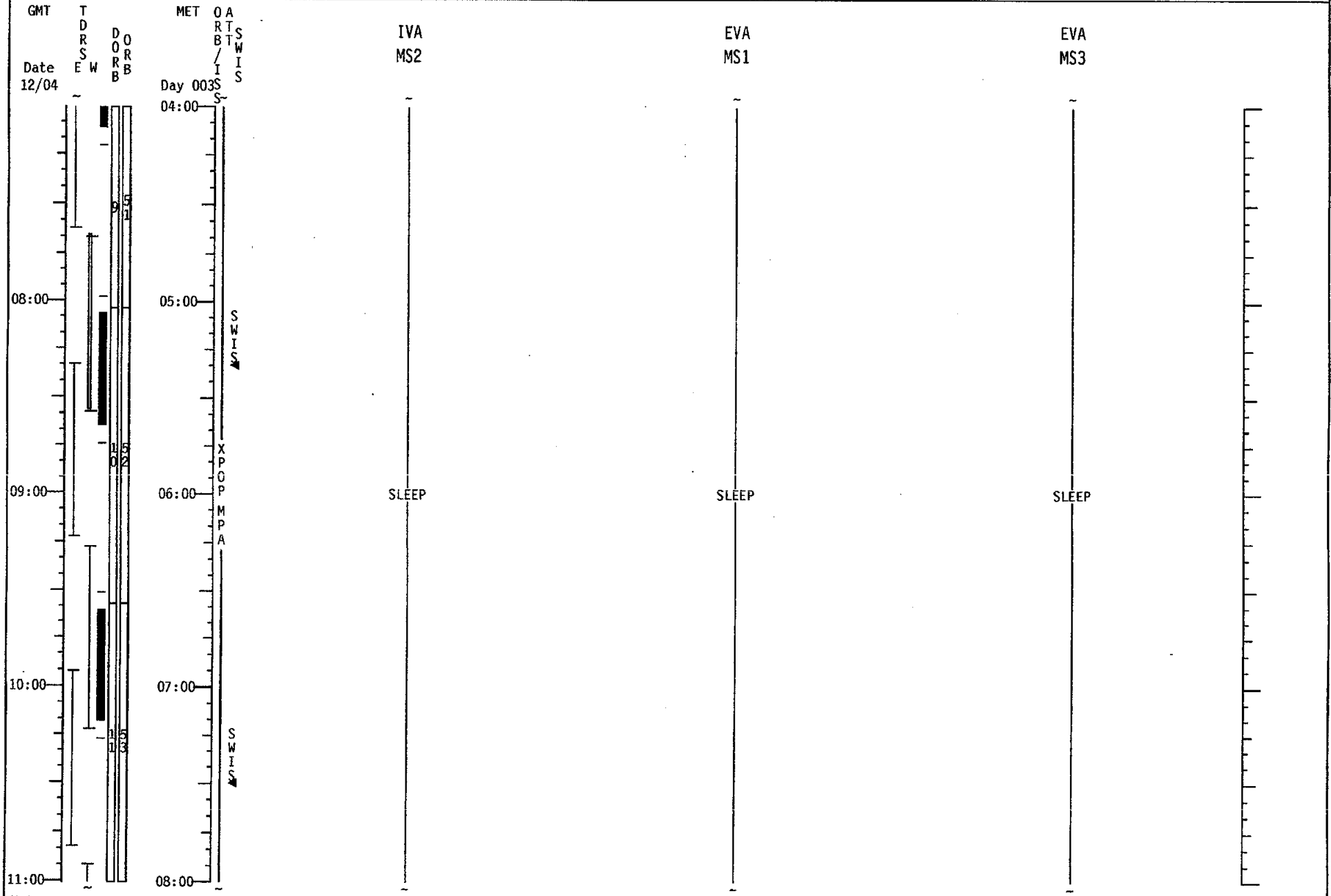
STS-97 (FD 04)



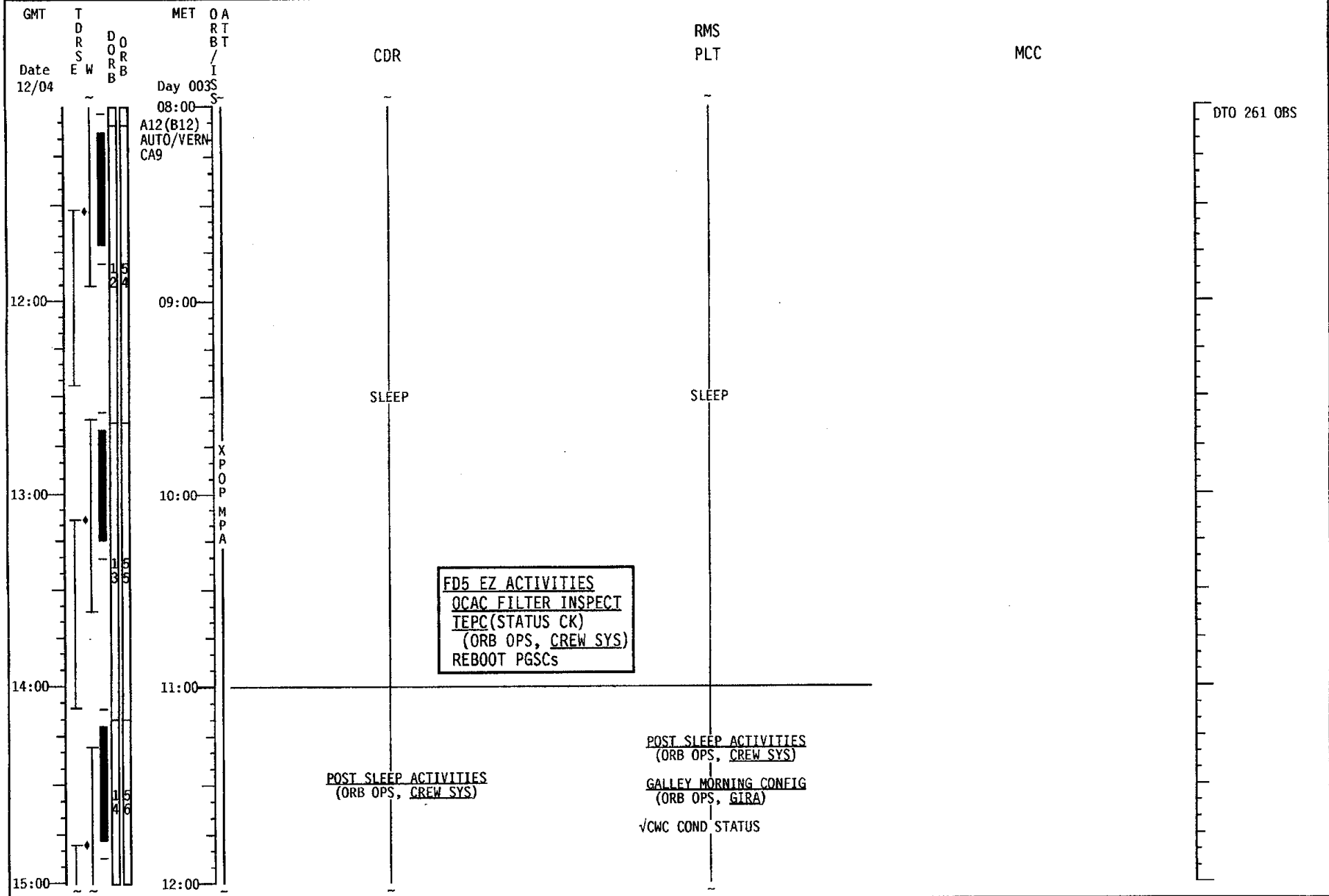
STS-97 (FD 04)



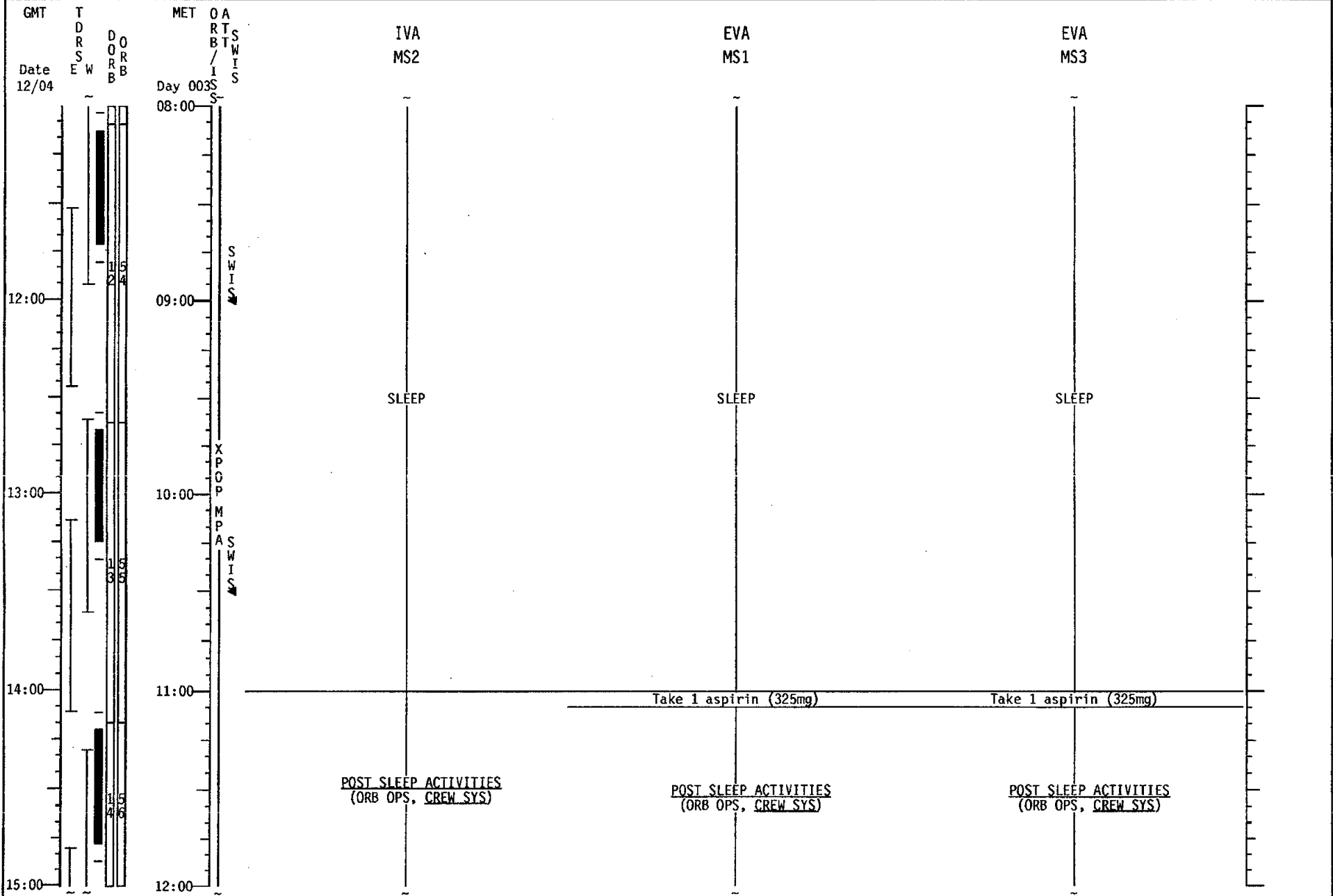
STS-97 (FD 04)



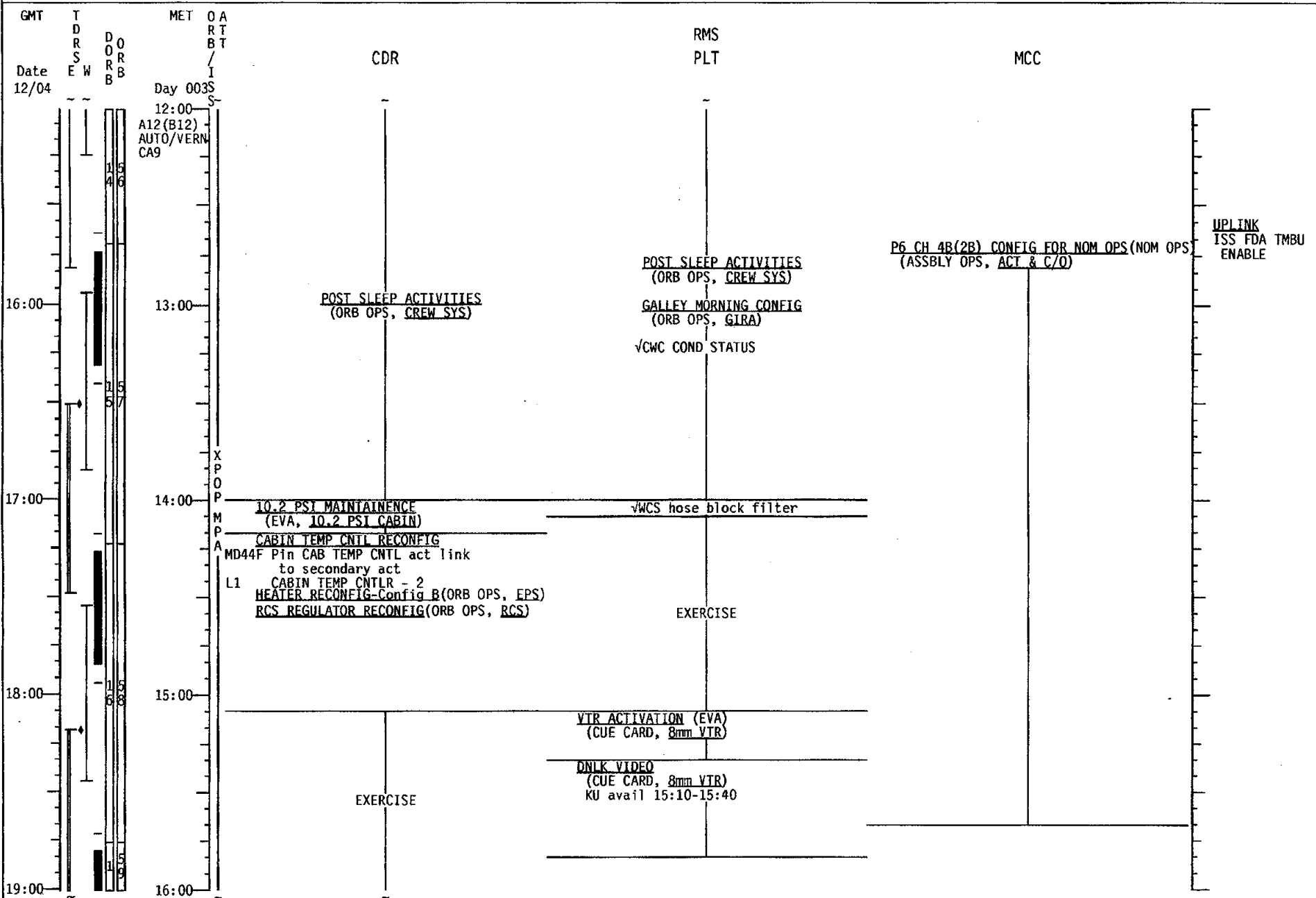
STS-97 (FD 04)



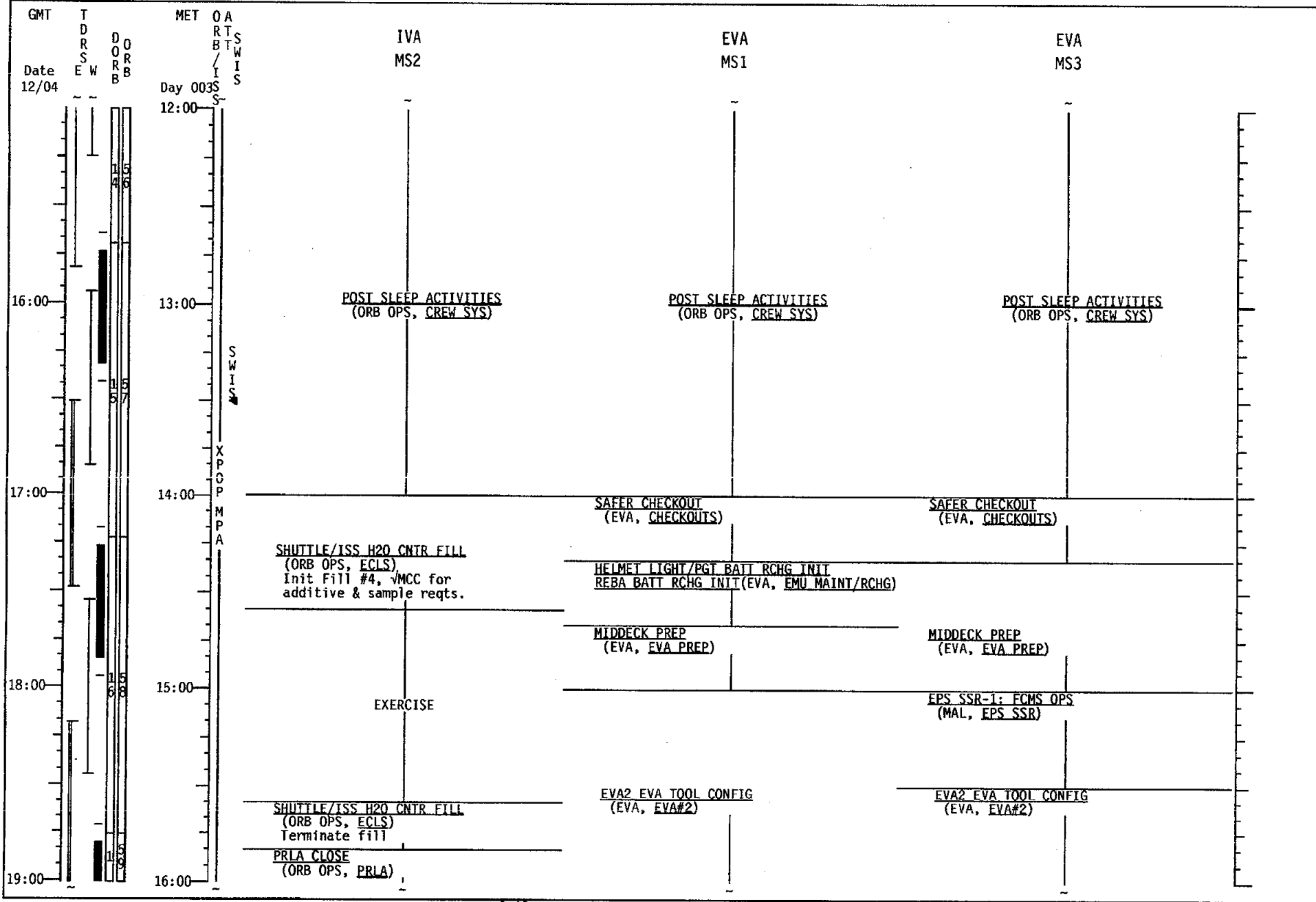
STS-97 (FD 04)



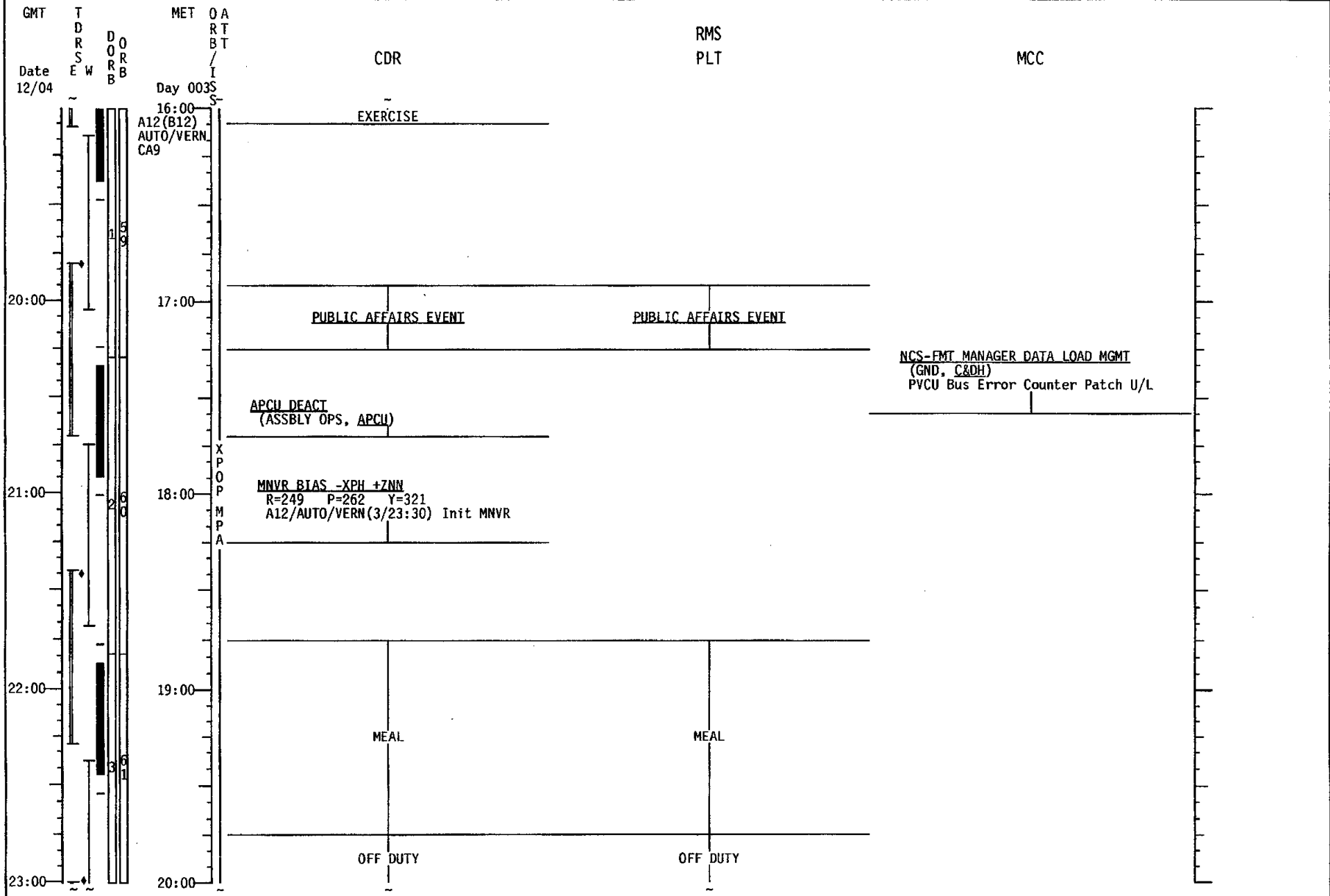
STS-97 (FD 05)



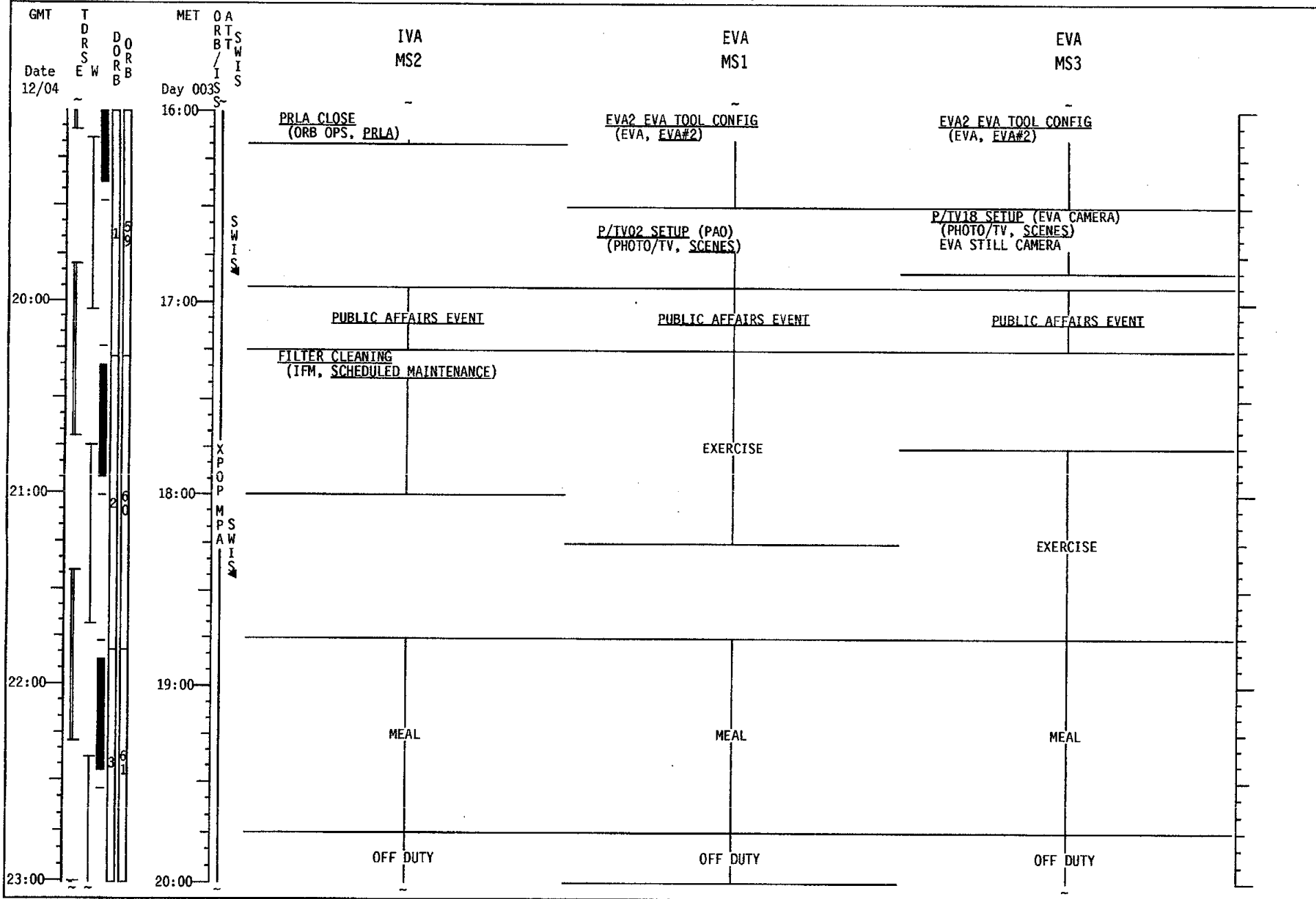
STS-97 (FD 05)



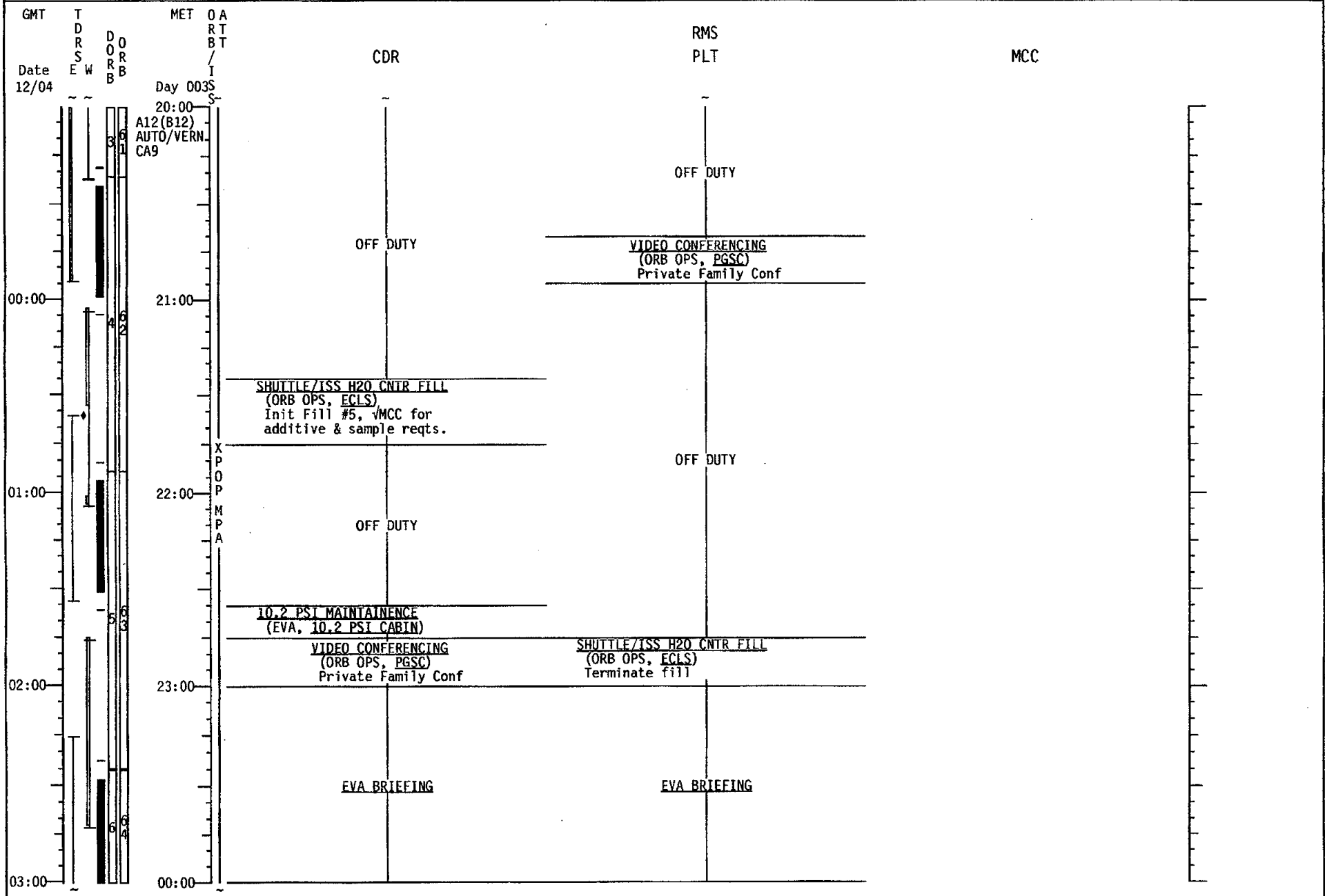
STS-97 (FD 05)



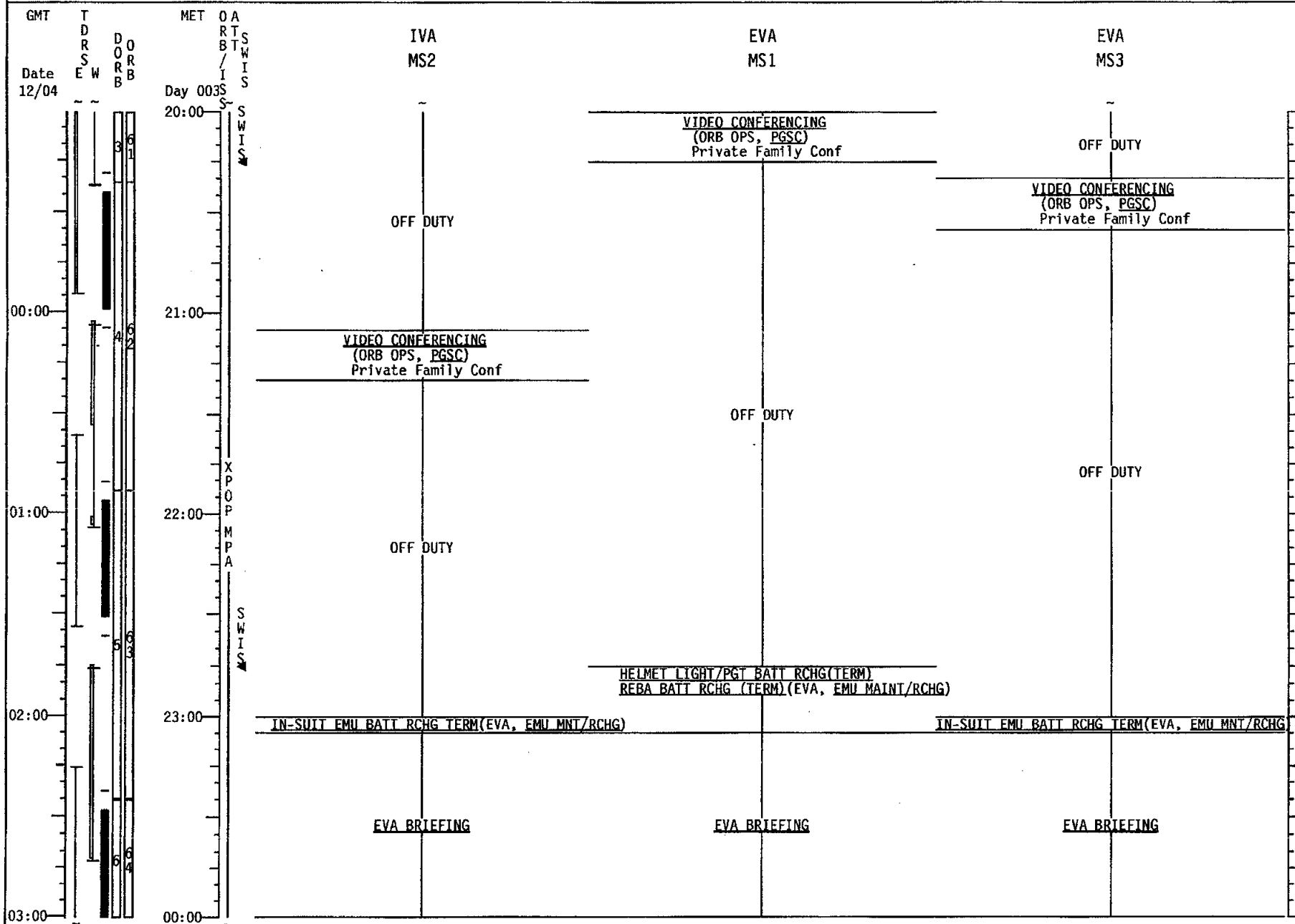
STS-97 (FD 05)



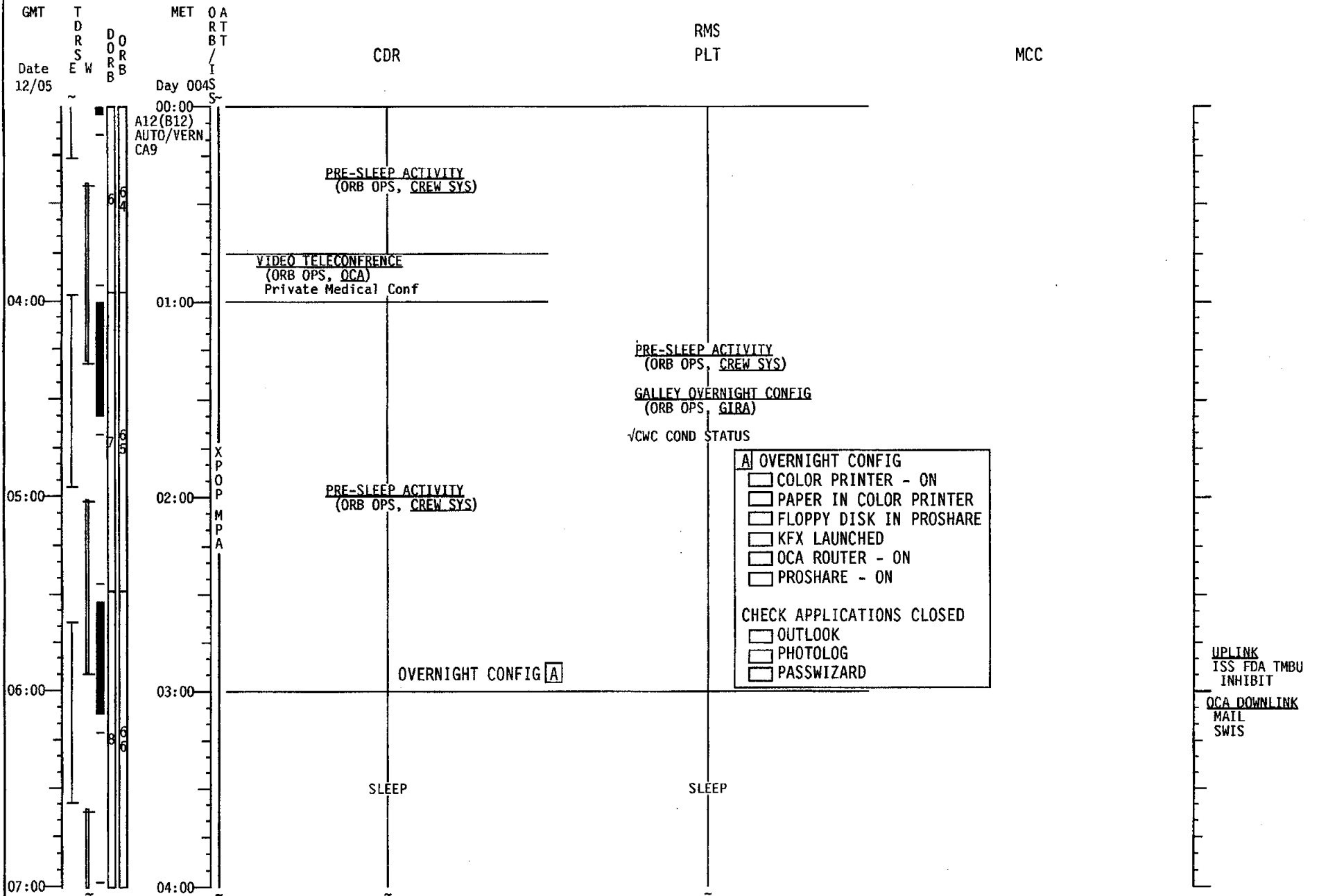
STS-97 (FD 05)



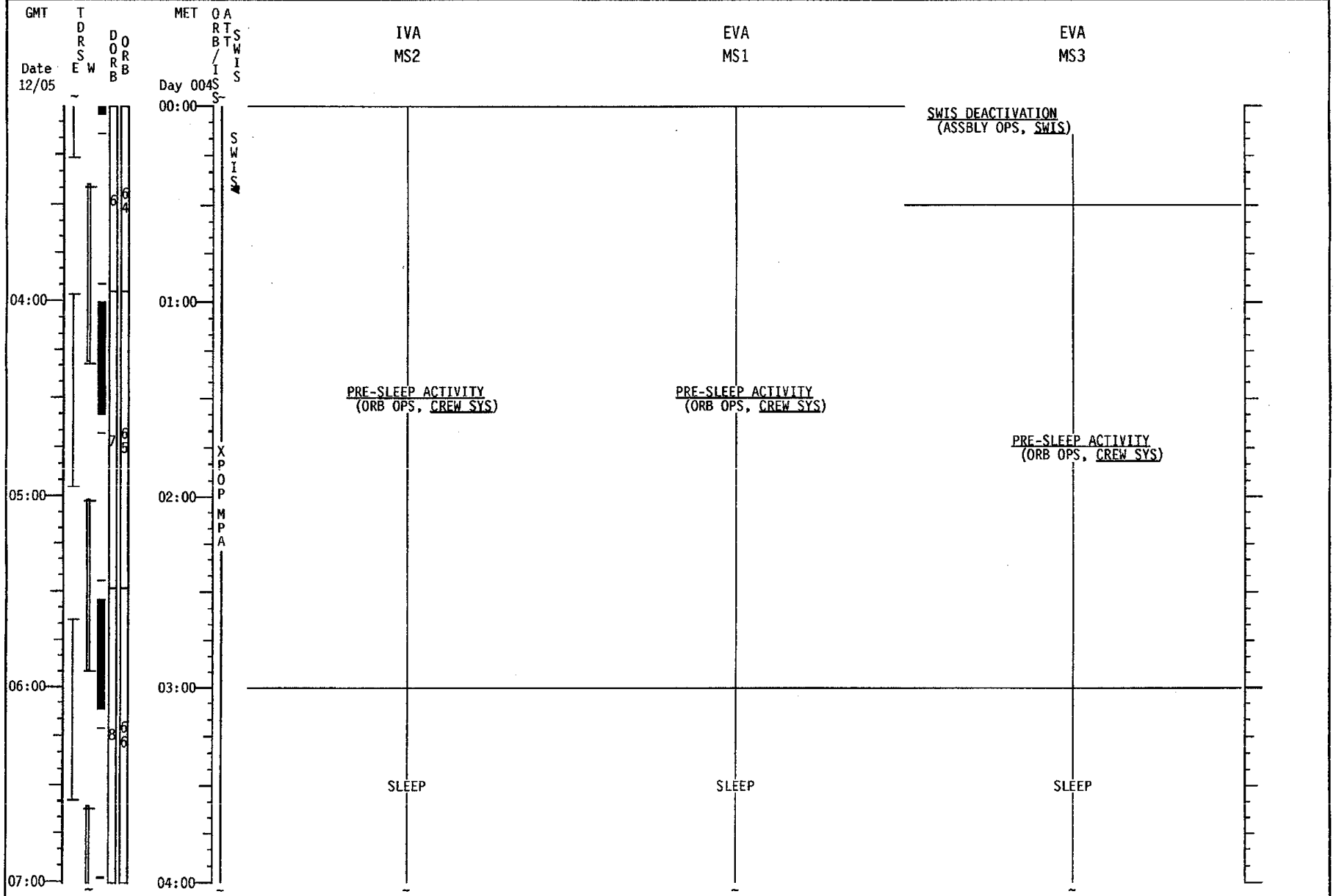
STS-97 (FD 05)



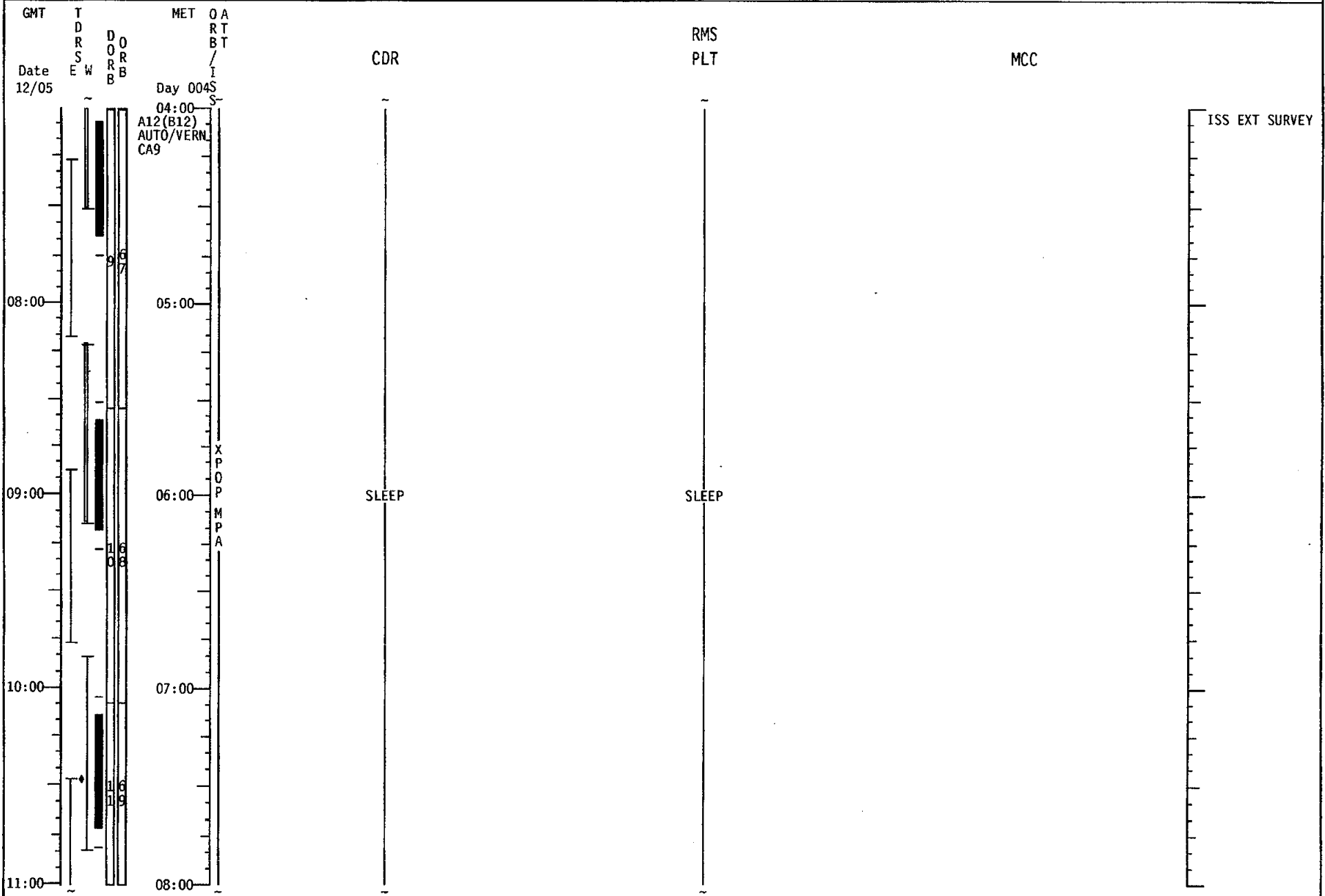
STS-97 (FD 05)



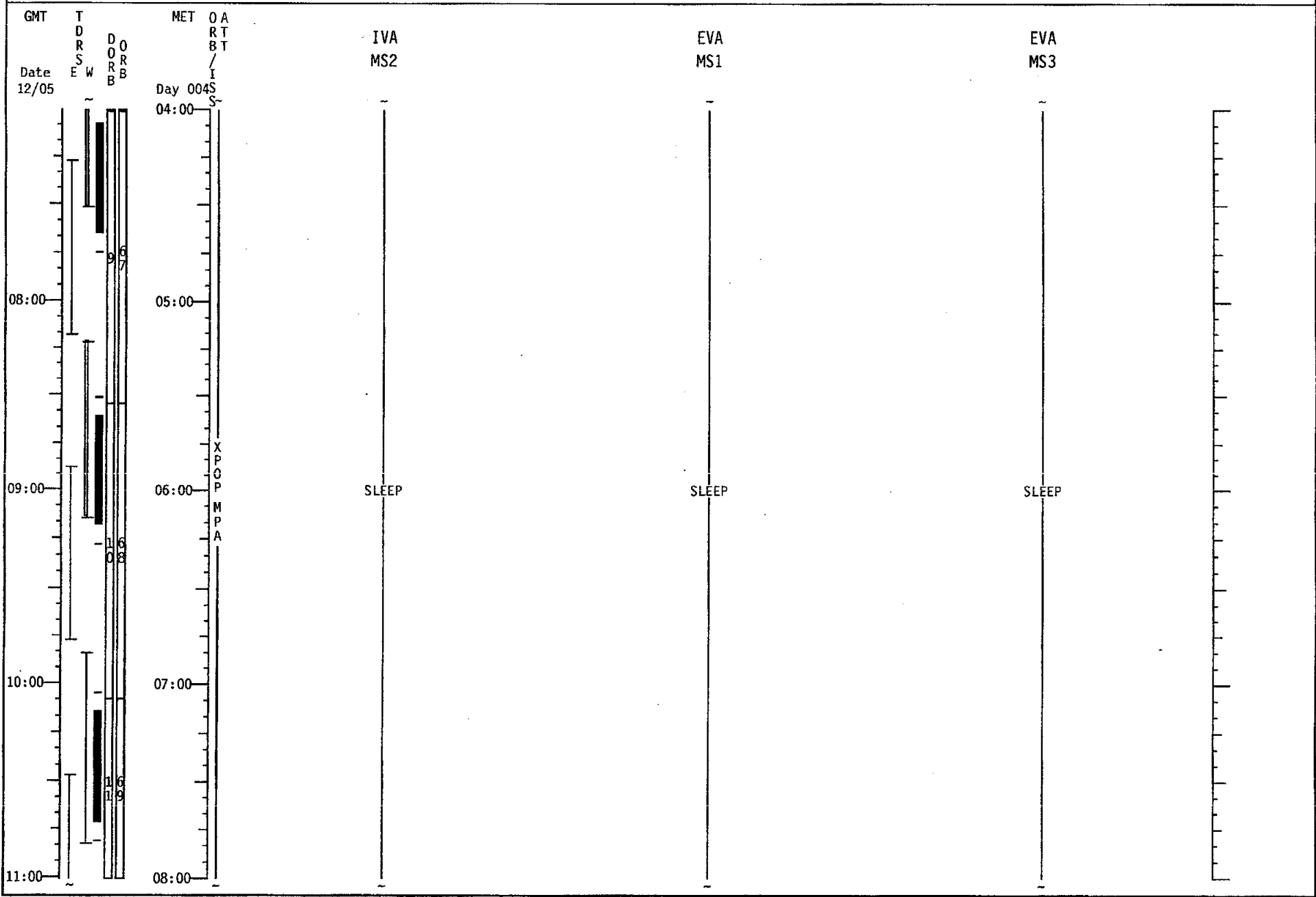
STS-97 (FD 05)



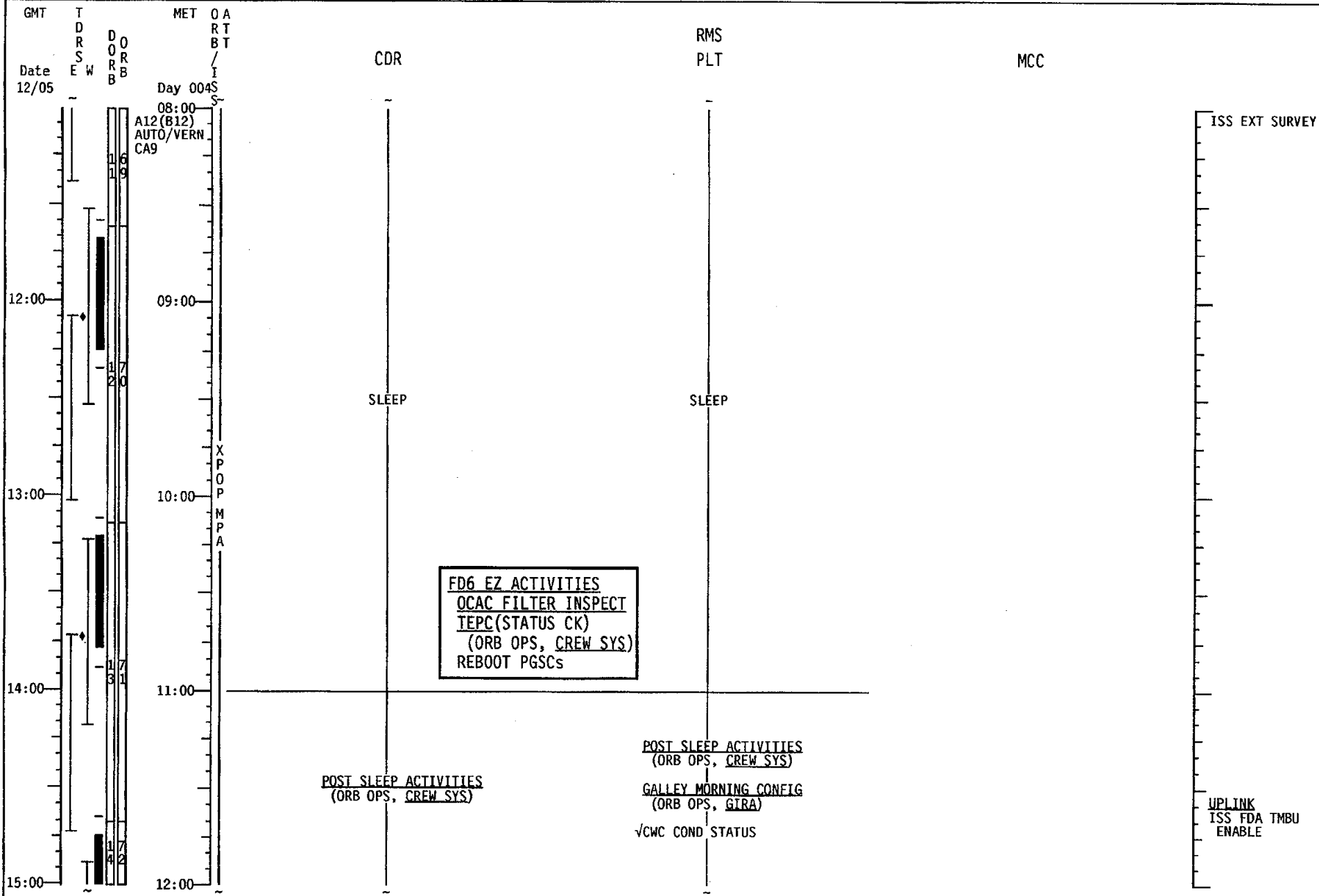
STS-97 (FD 05)



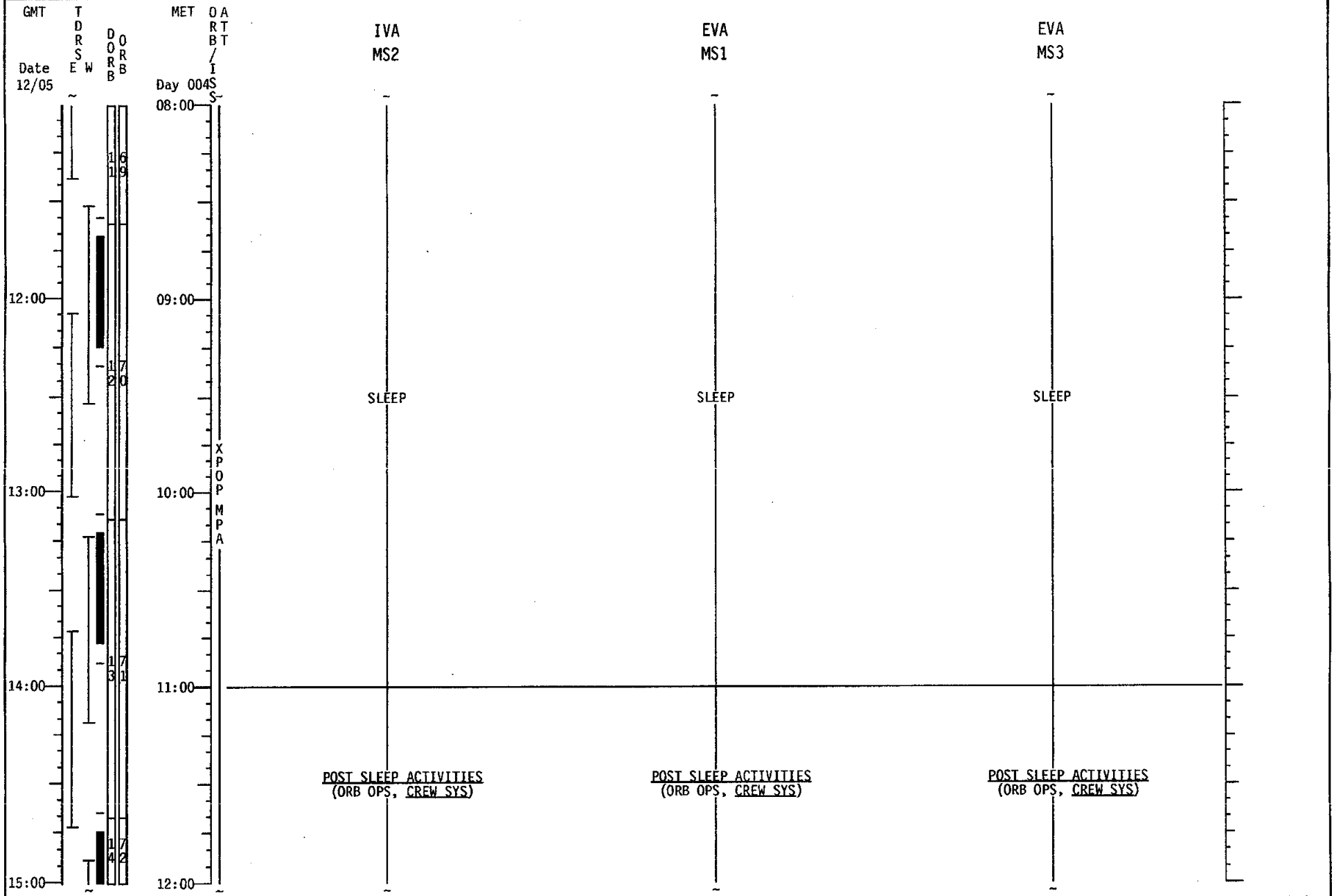
STS-97 (FD 05)



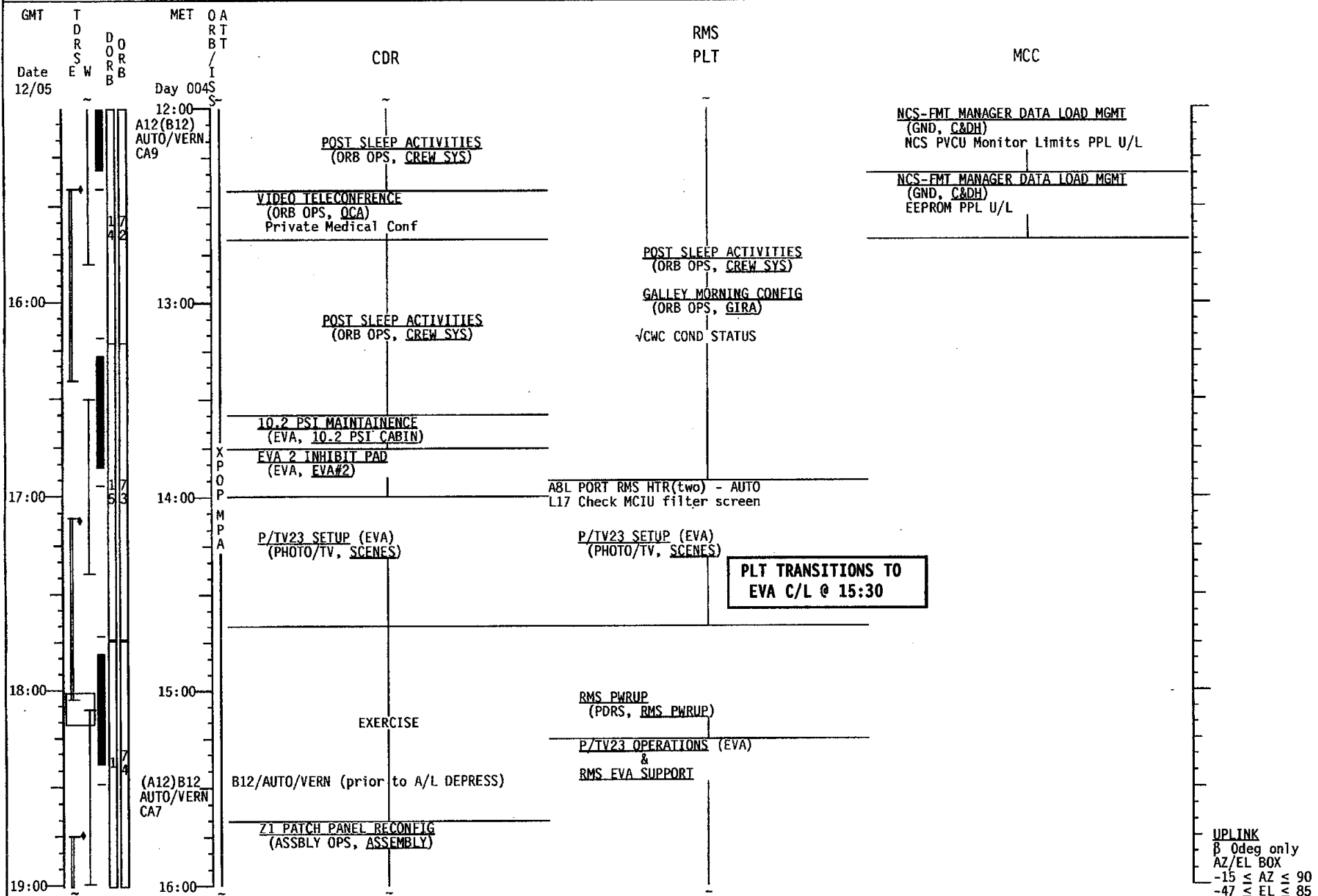
STS-97 (FD 05)



STS-97 (FD 05)

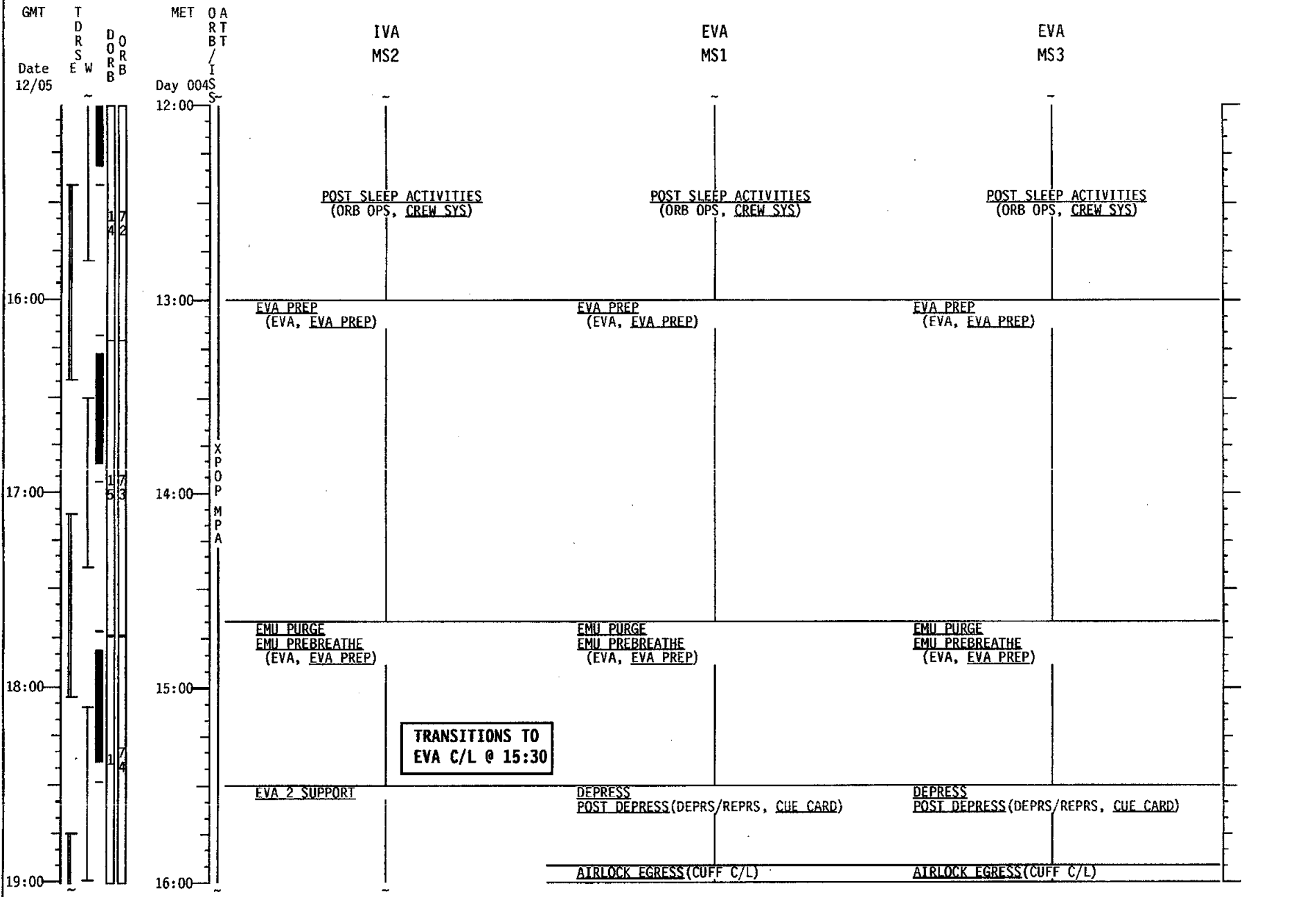


STS-97 (FD 06)

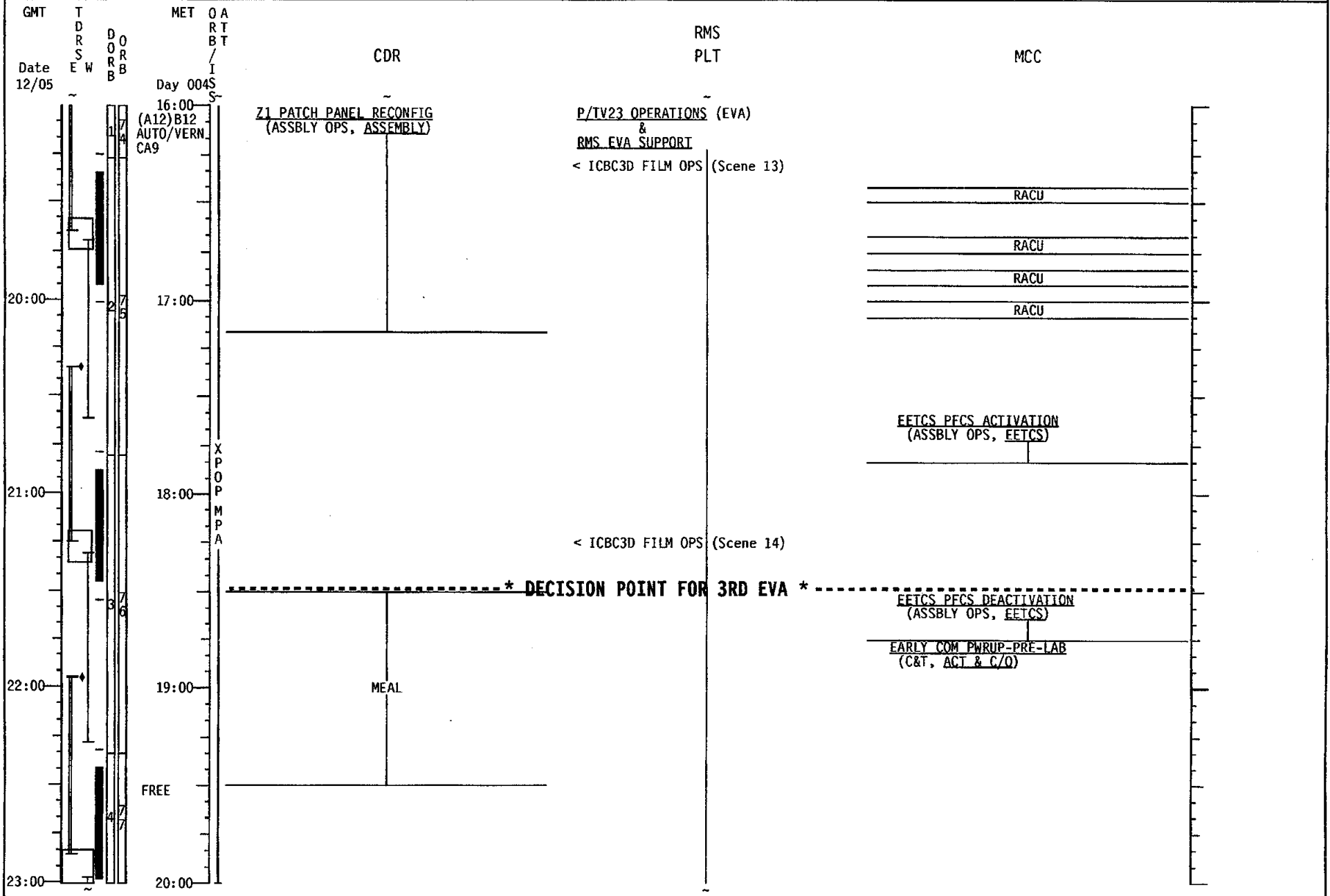


UPLINK
 B 0deg only
 AZ/EL BOX
 -15 ≤ AZ ≤ 90
 -47 ≤ EL ≤ 85

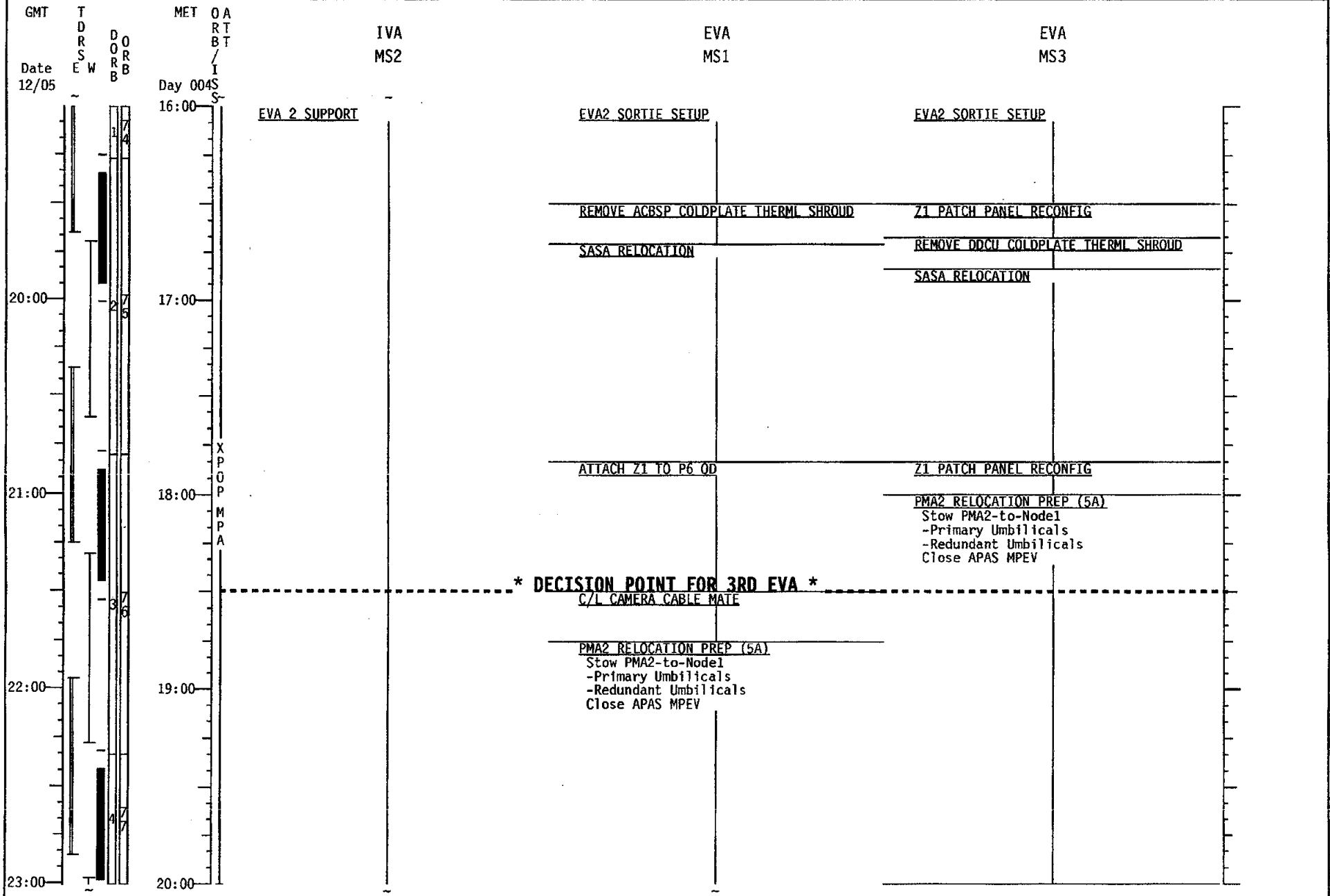
STS-97 (FD 06)



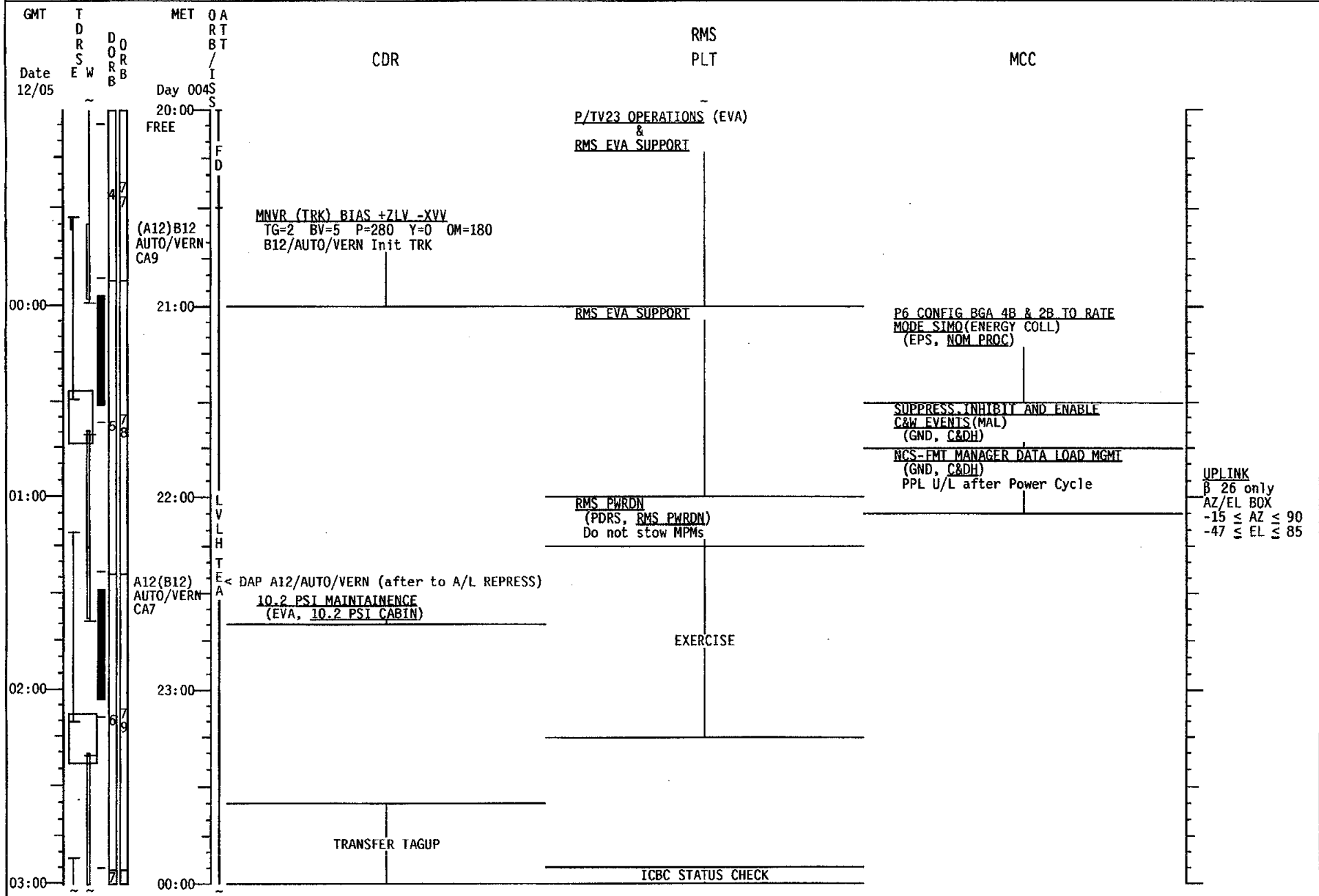
STS-97 (FD 06)



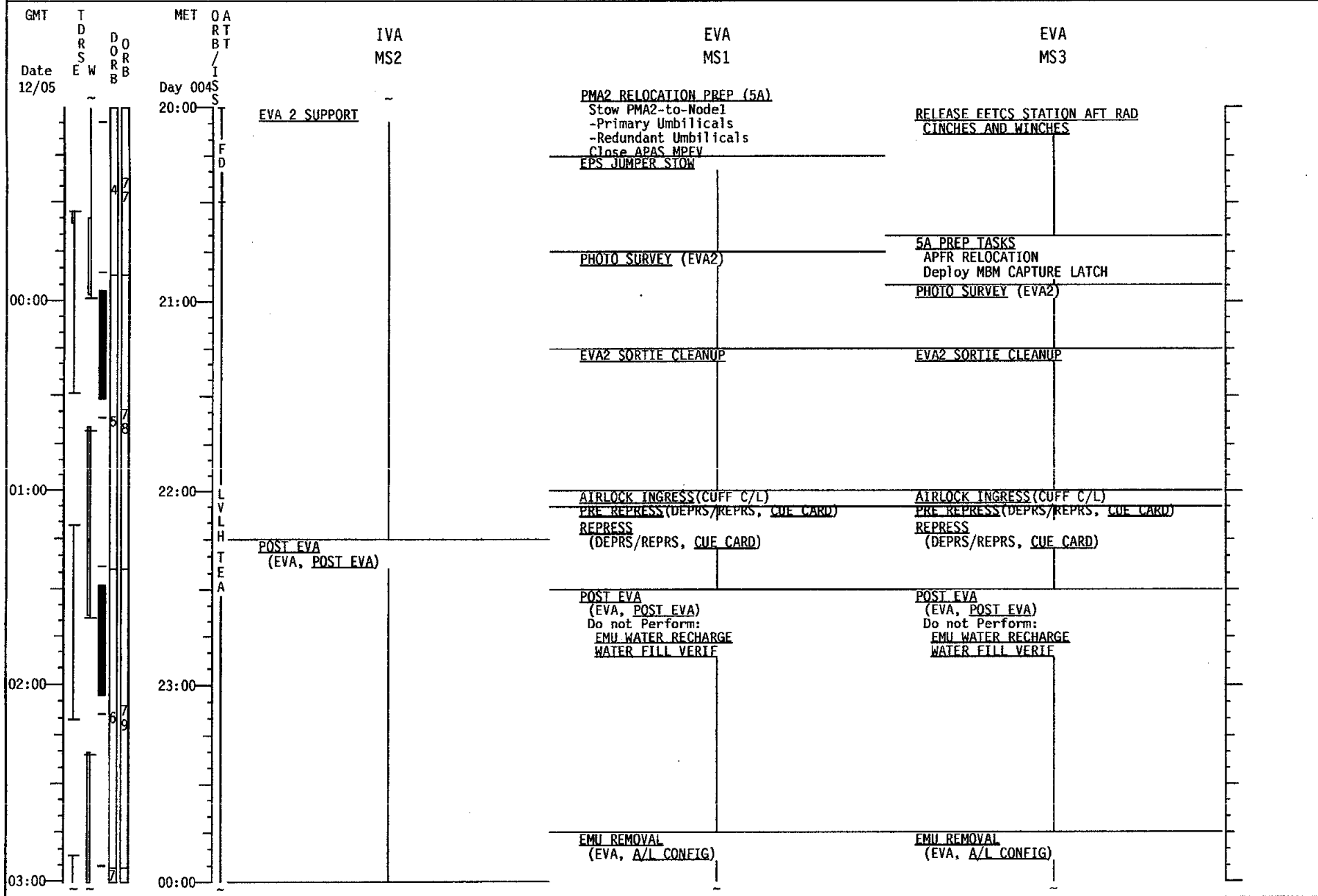
STS-97 (FD 00)



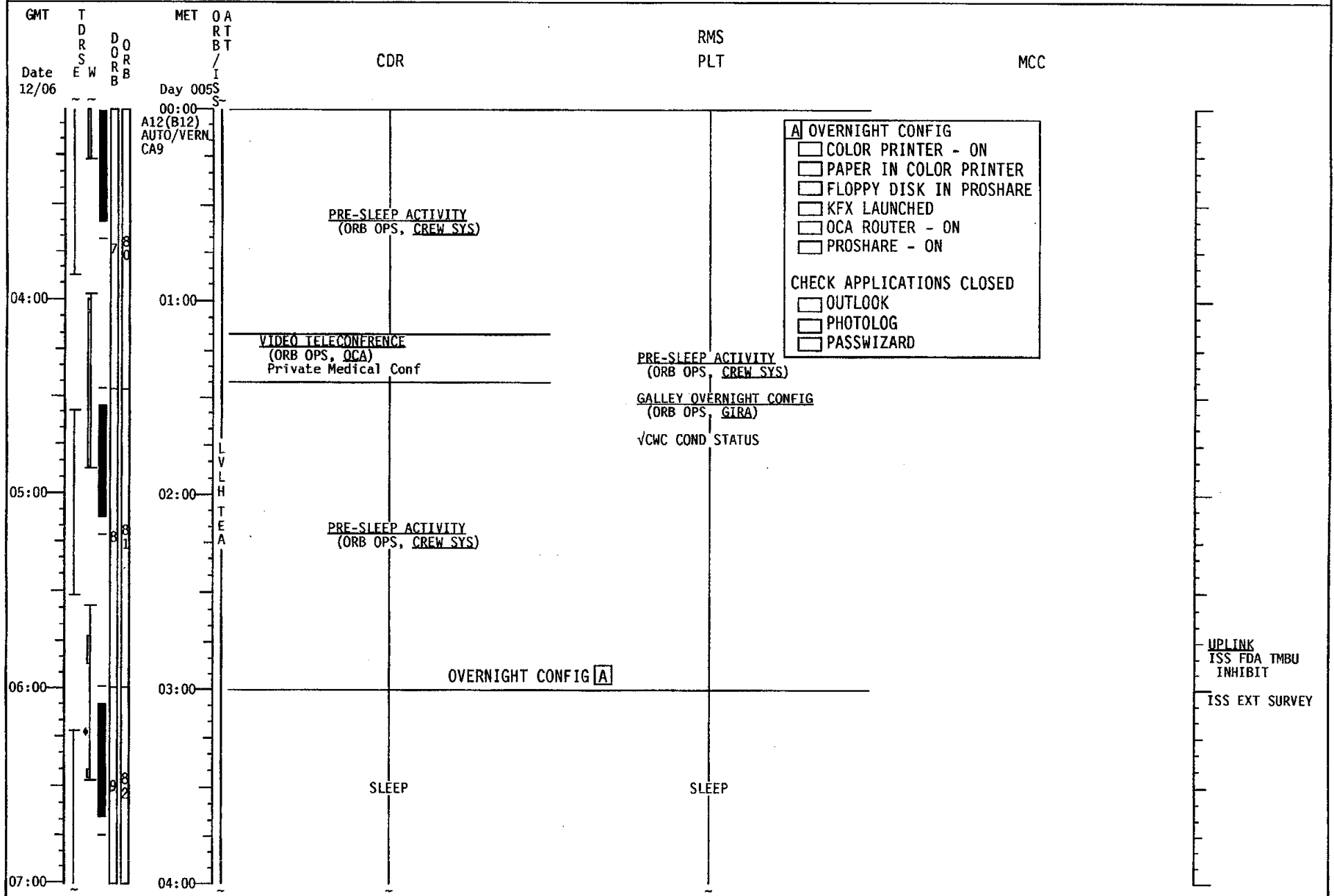
STS-97 (FD 06)



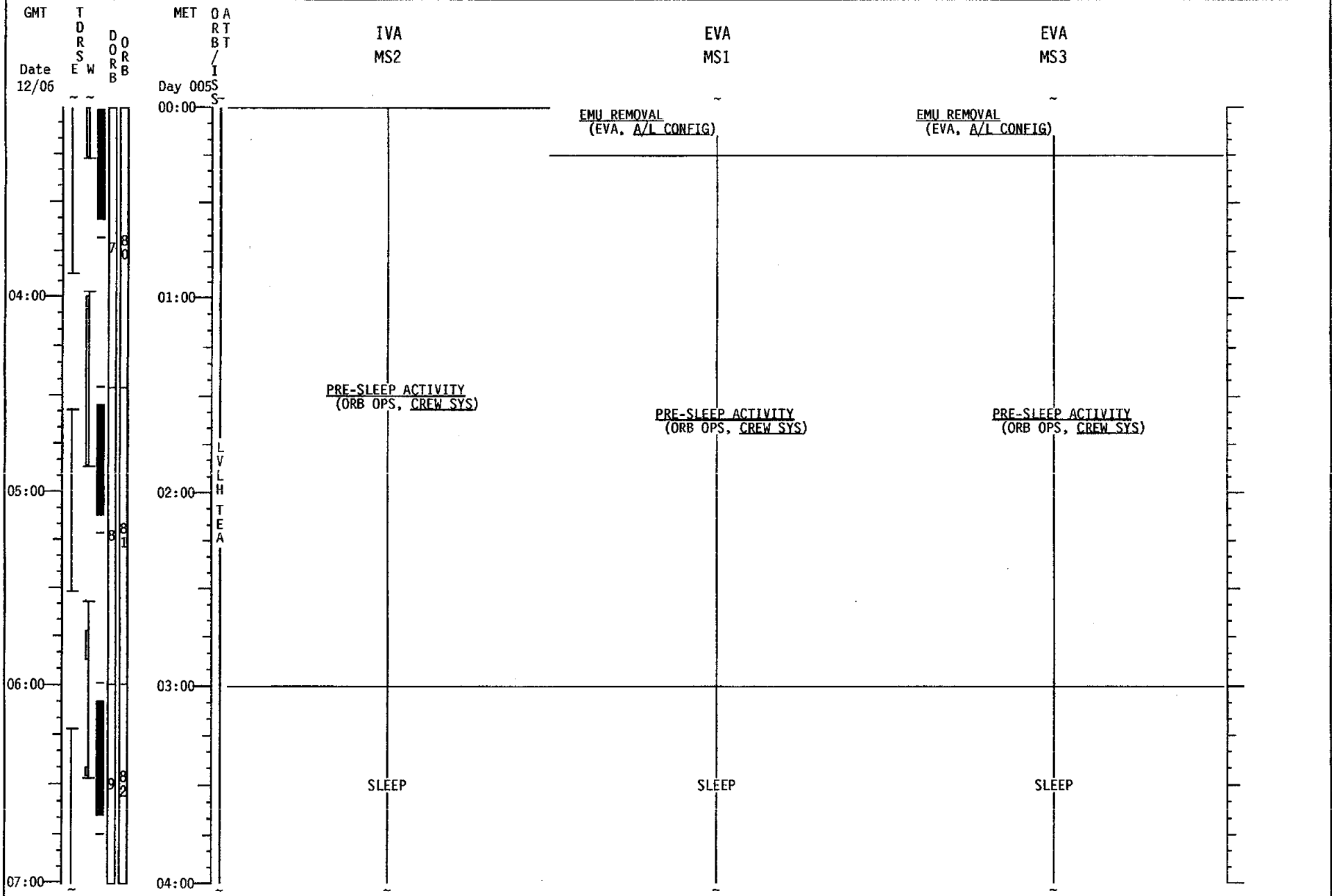
STS-97 (FD 06)



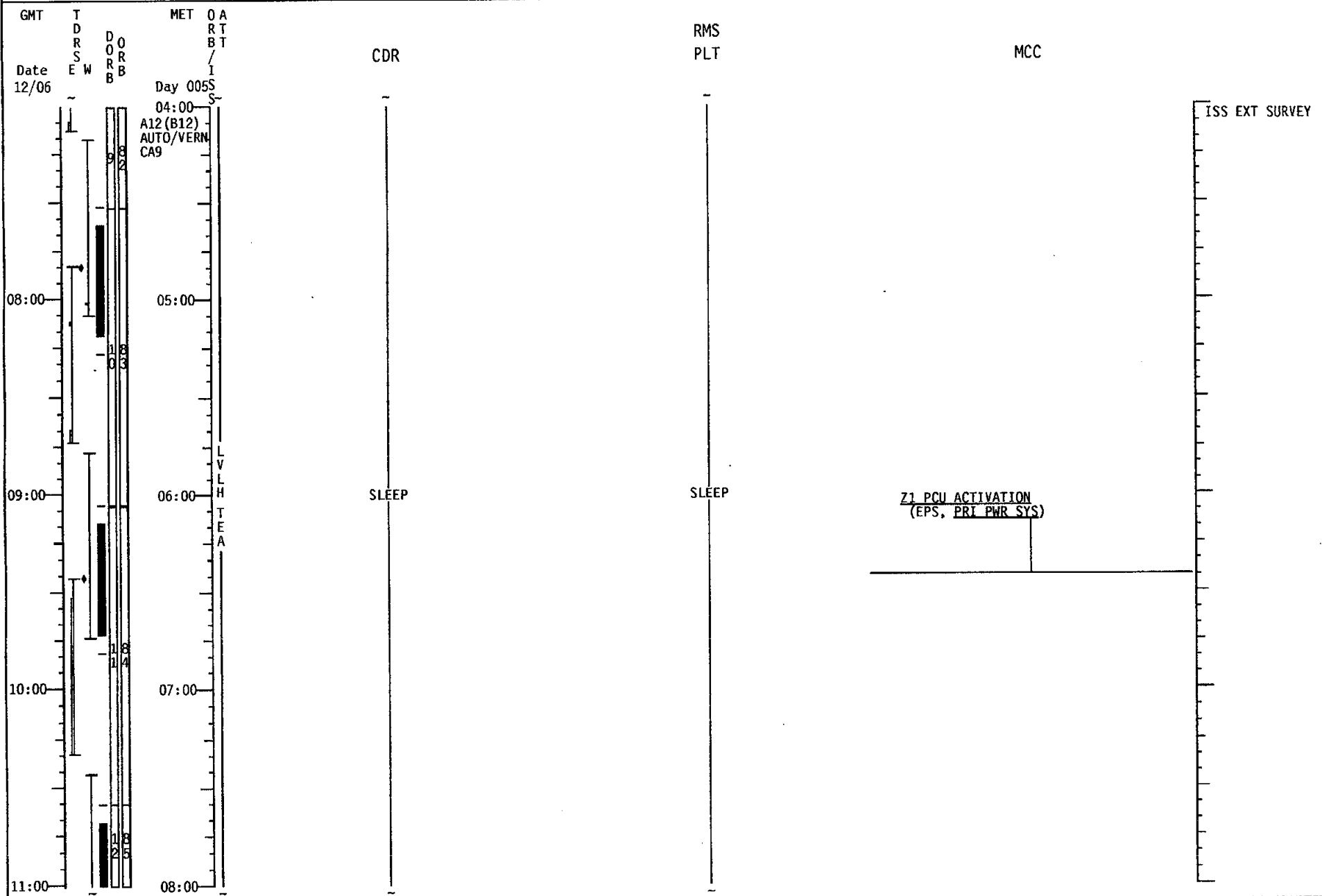
STS-97 (FD 06)



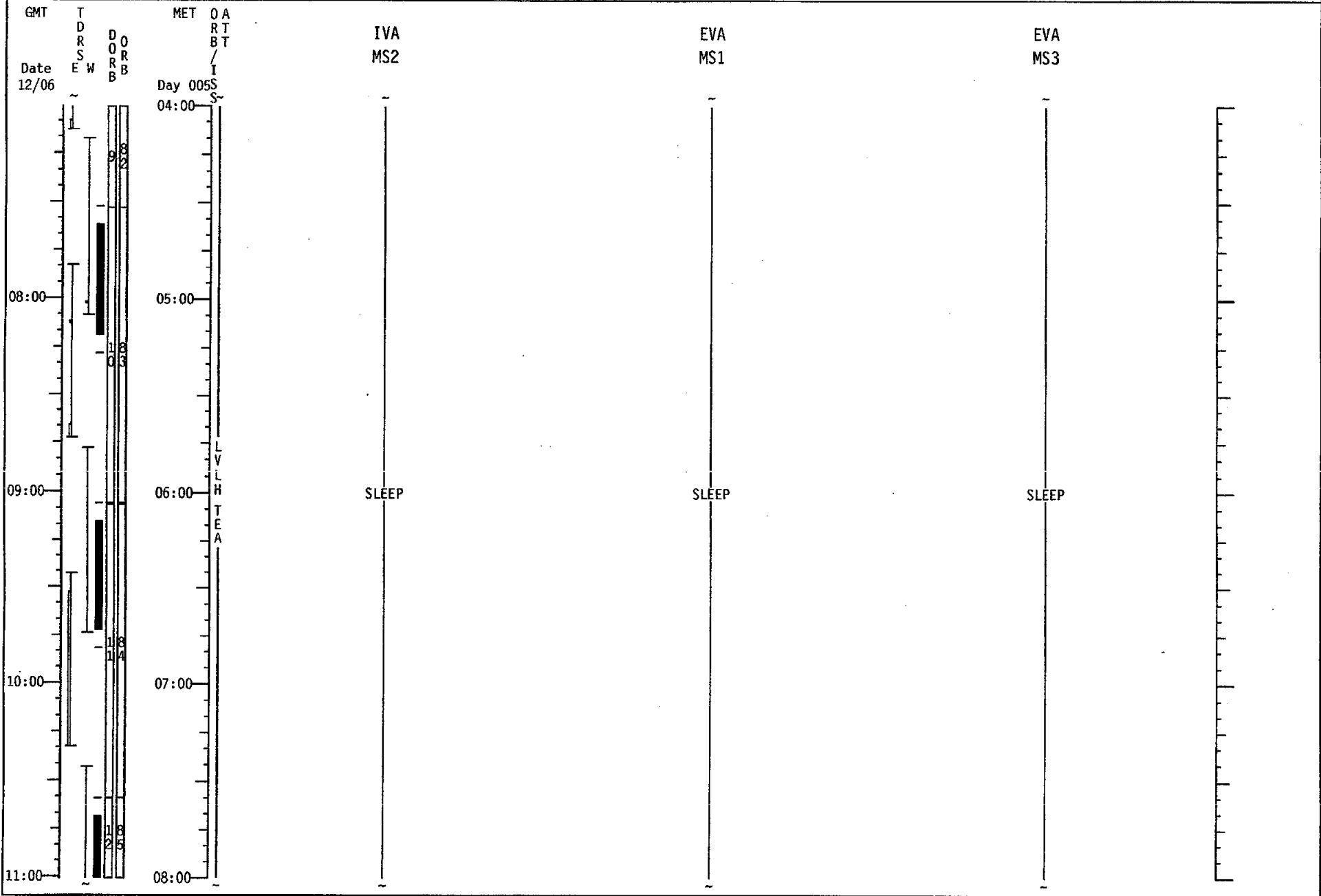
STS-97 (FD 06)



STS-97 (FD 06)



STS-97 (FD 06)



GMT
Date 12/06

MET
Day 005S

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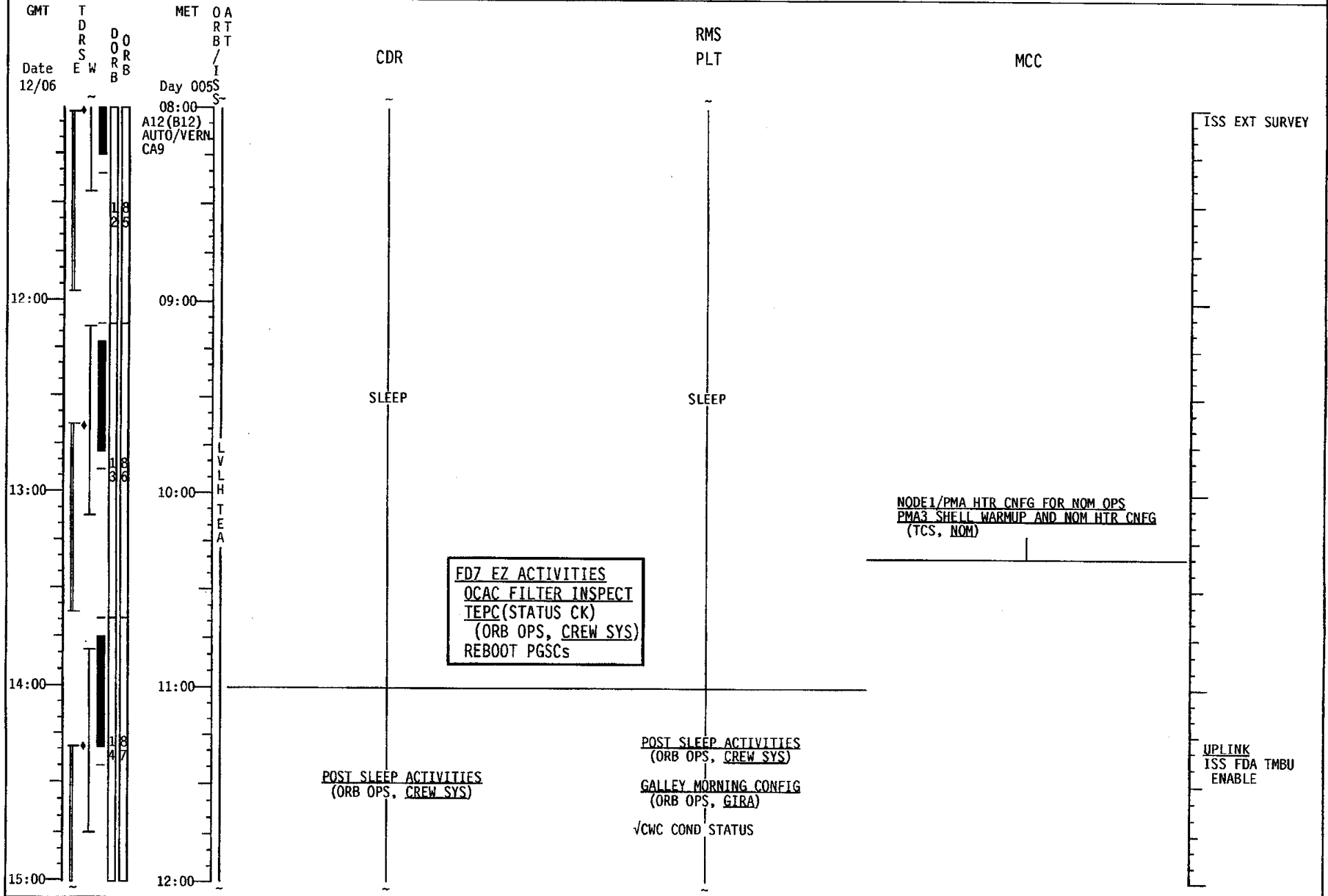
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SLEEP

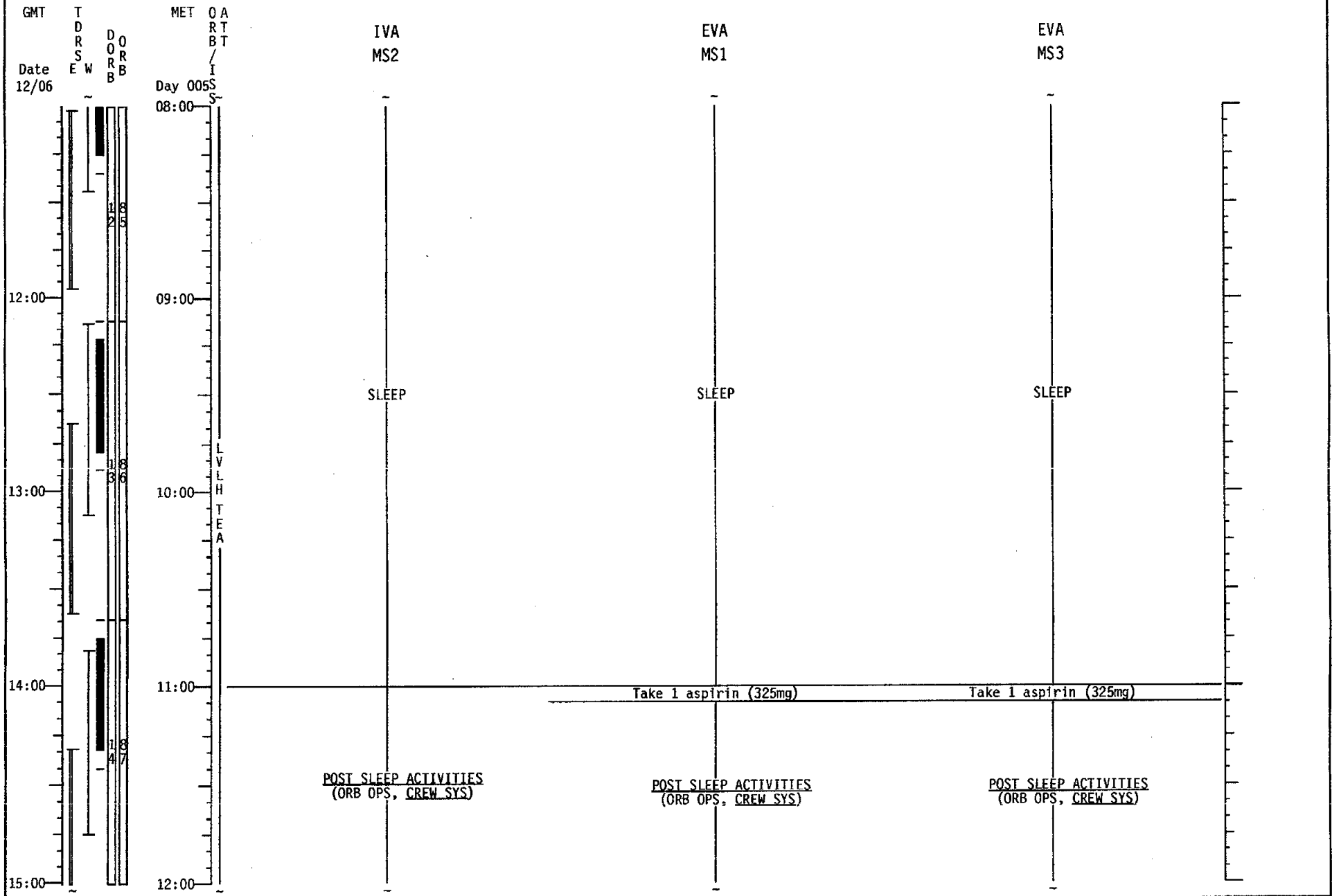
SLEEP

SLEEP

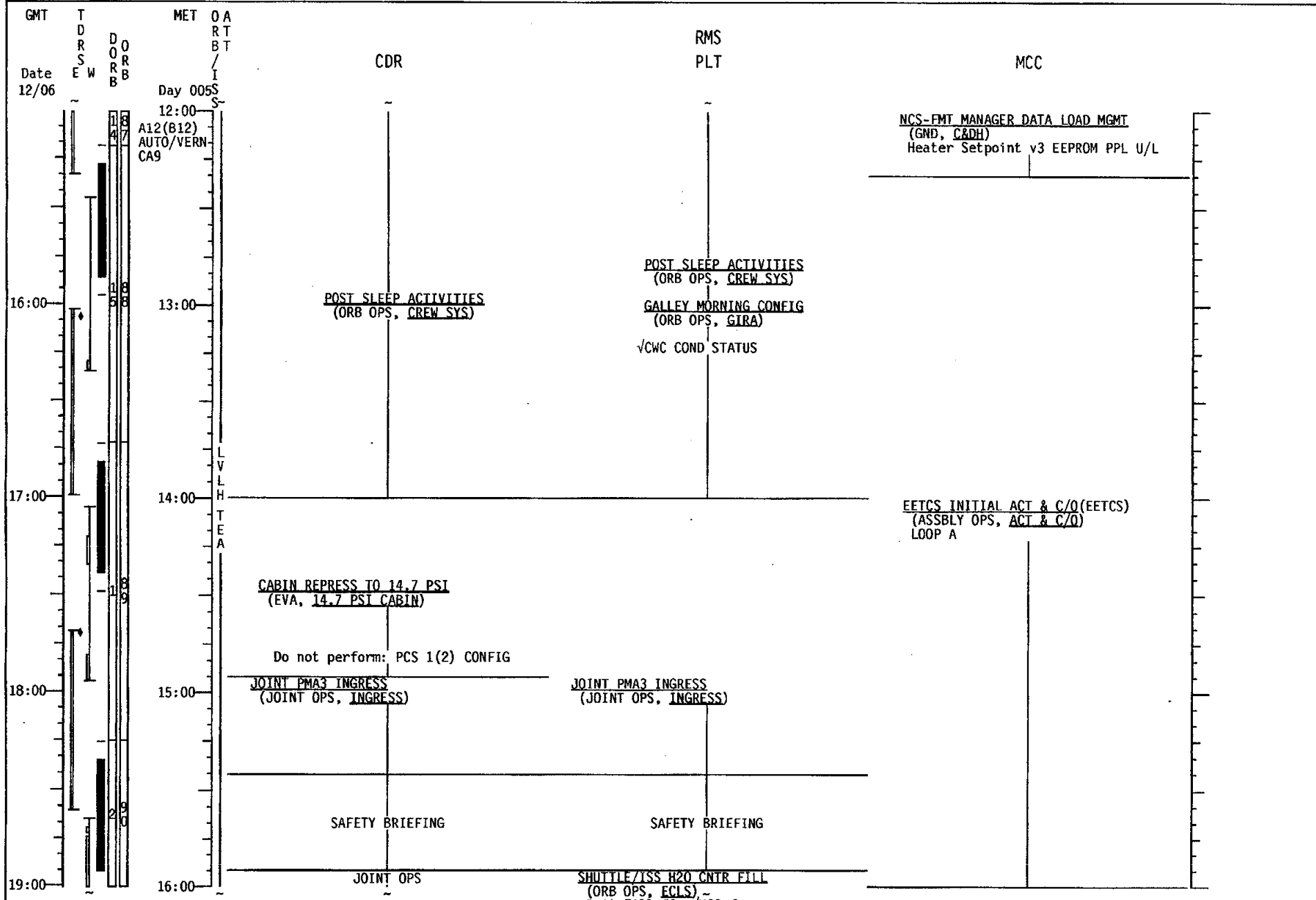
STS-97 (FD 06)



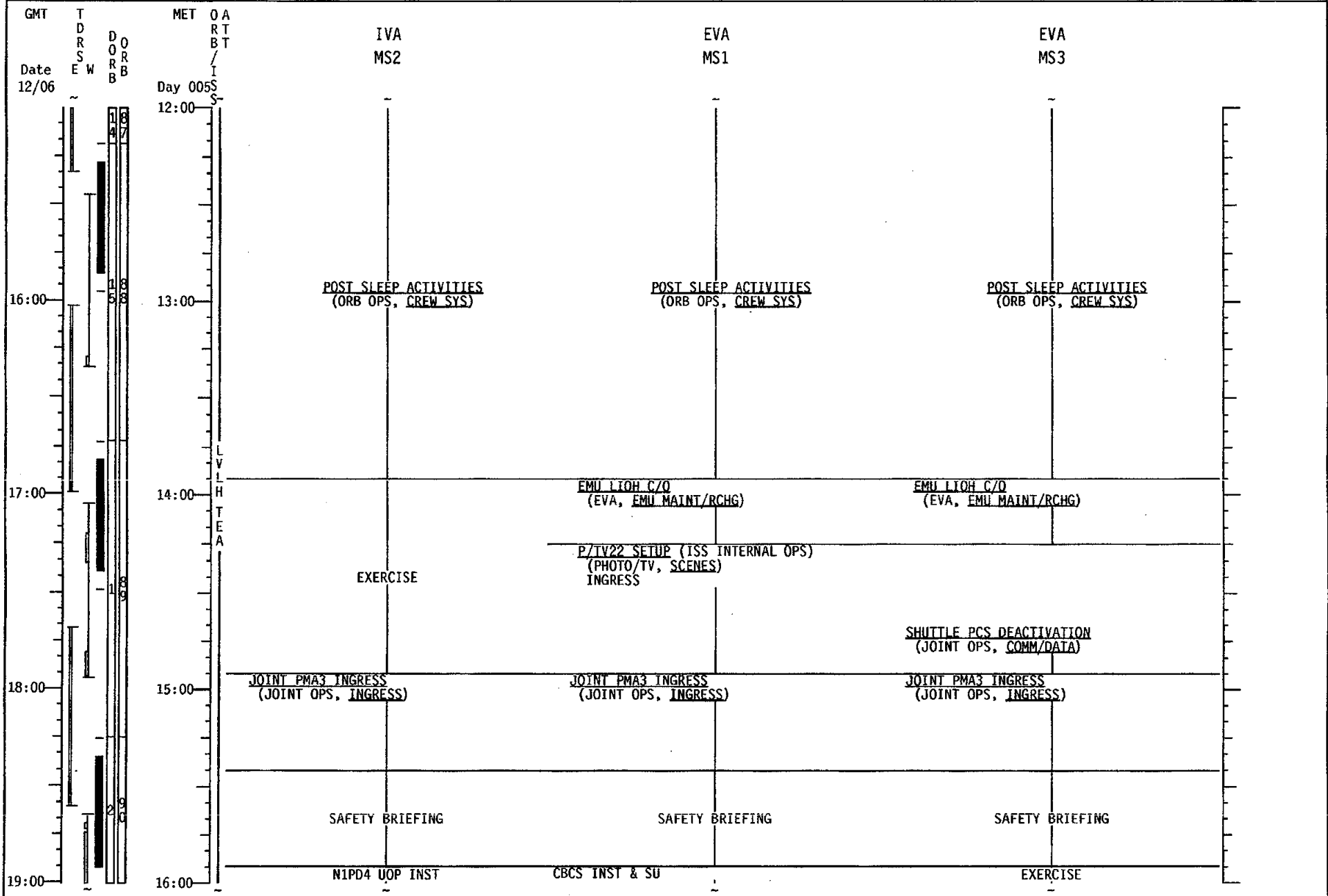
STS-97 (FD 06)



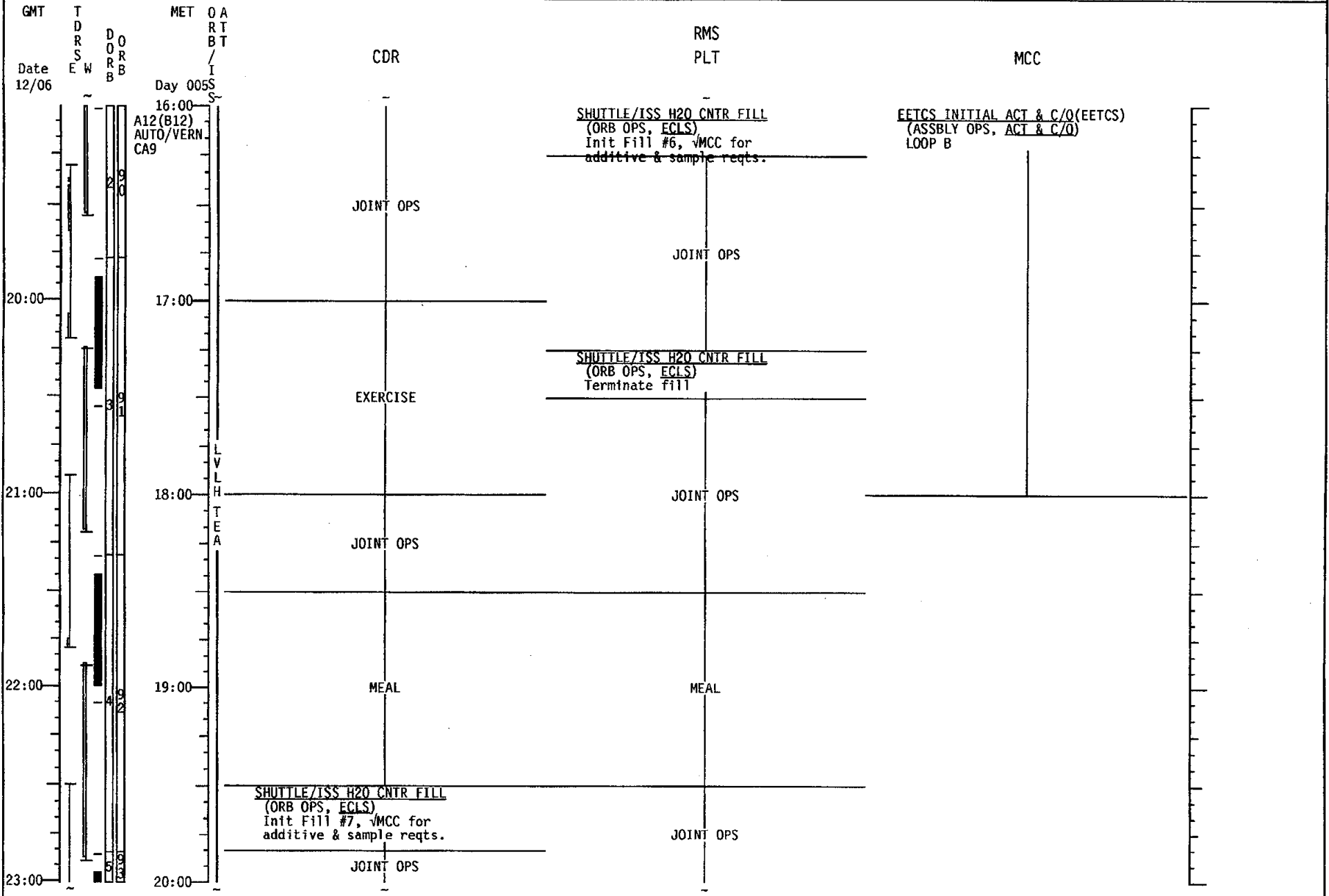
STS-97 (FD 07)



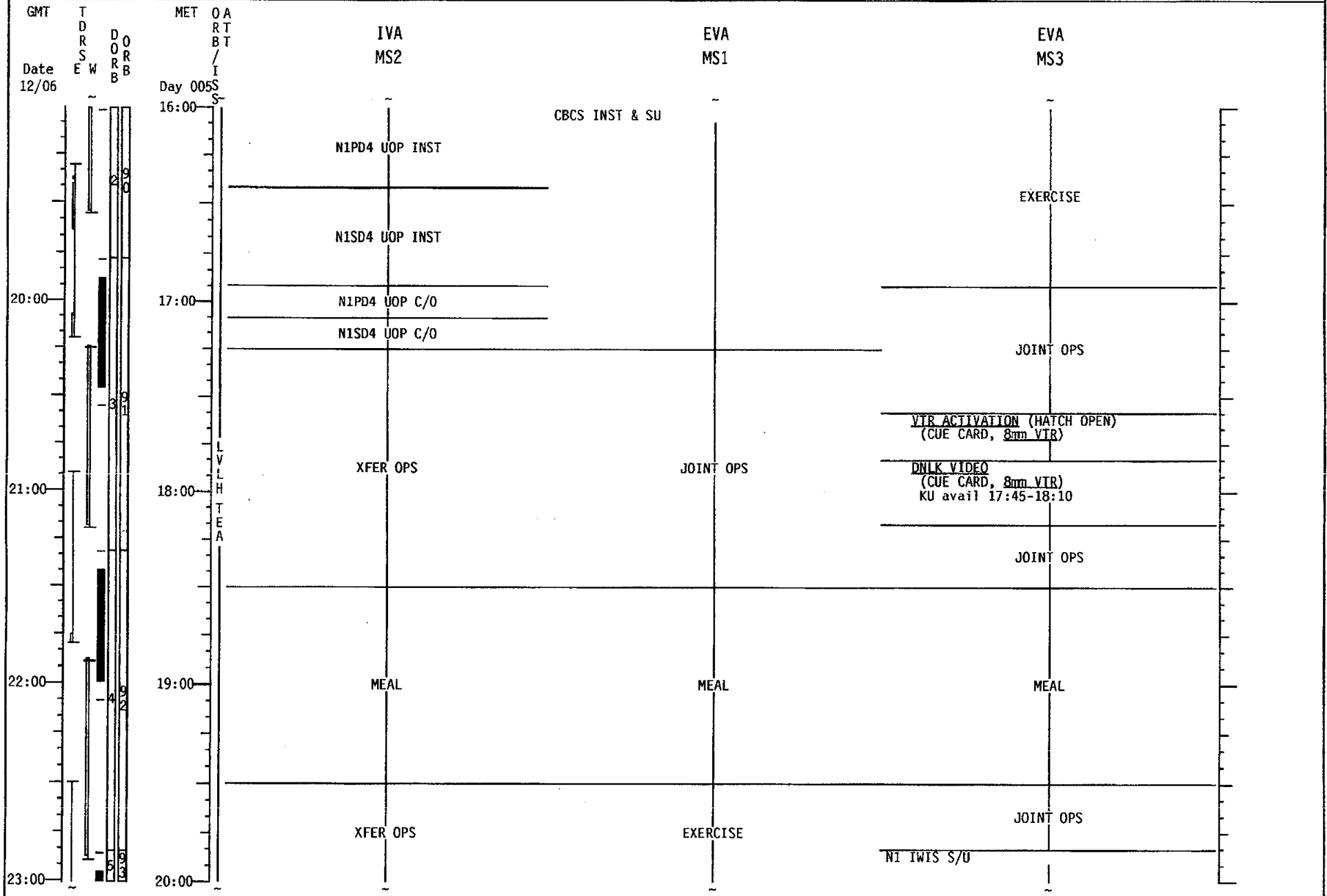
STS-97 (FD 07)



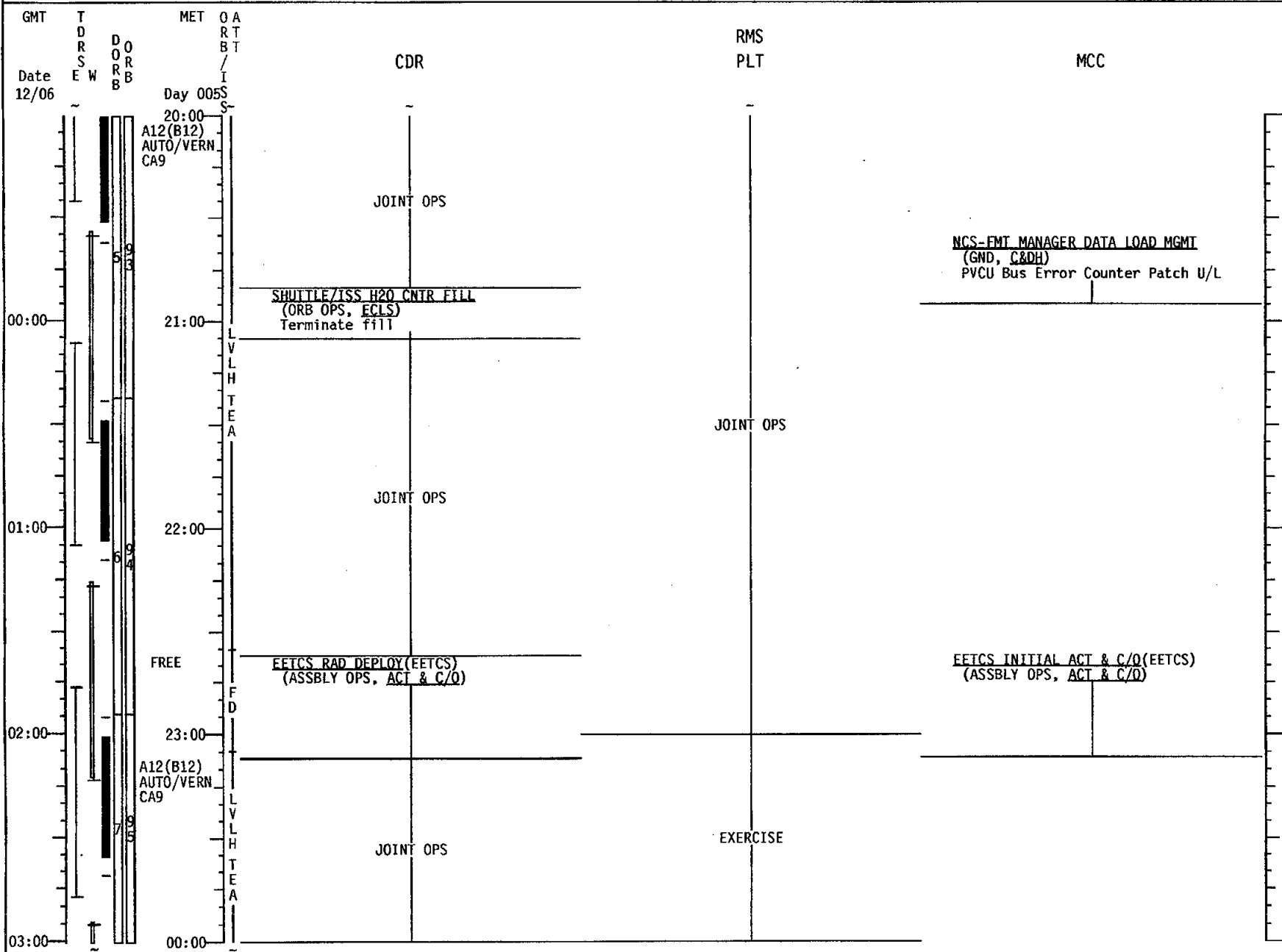
STS-97 (FD 07)



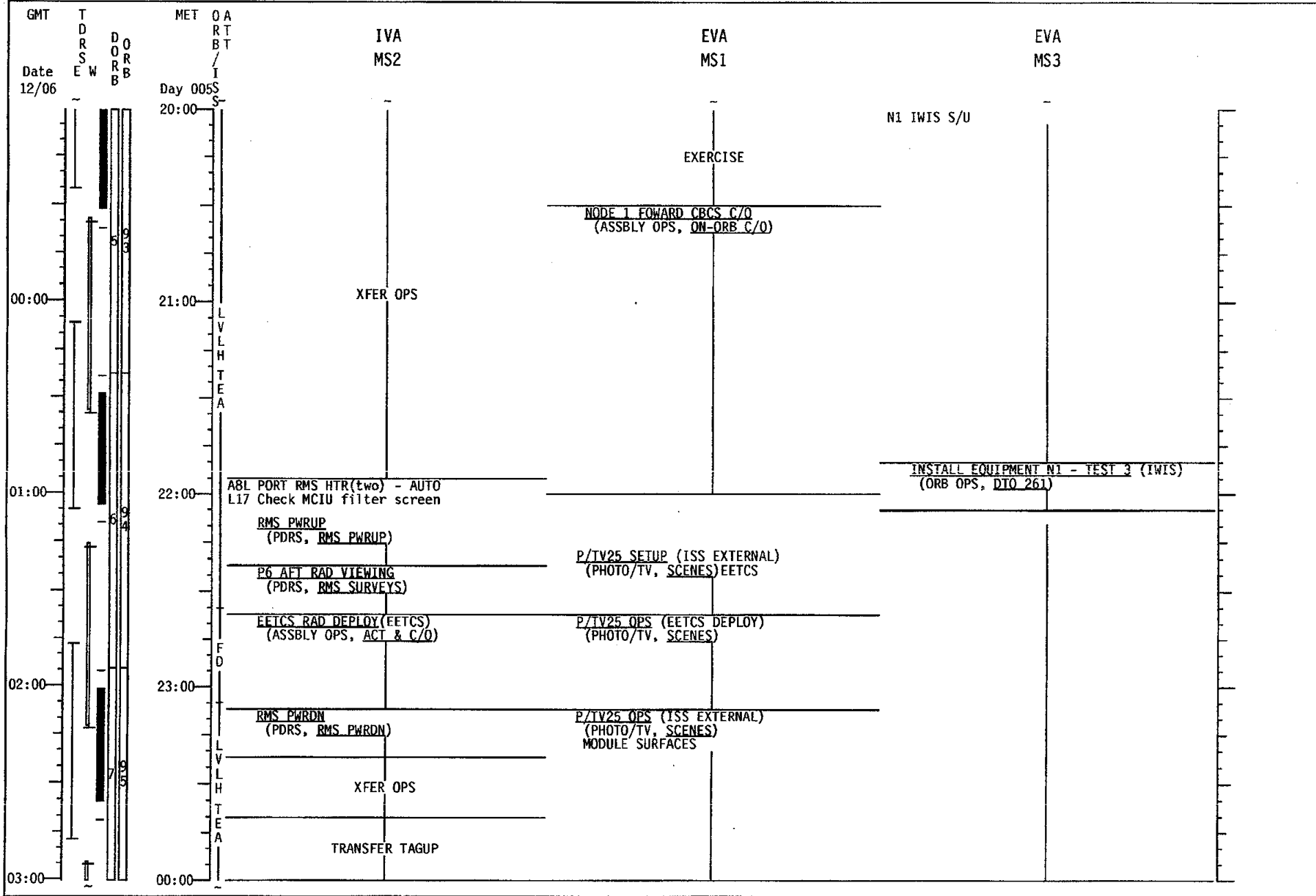
STS-97 (FD 07)



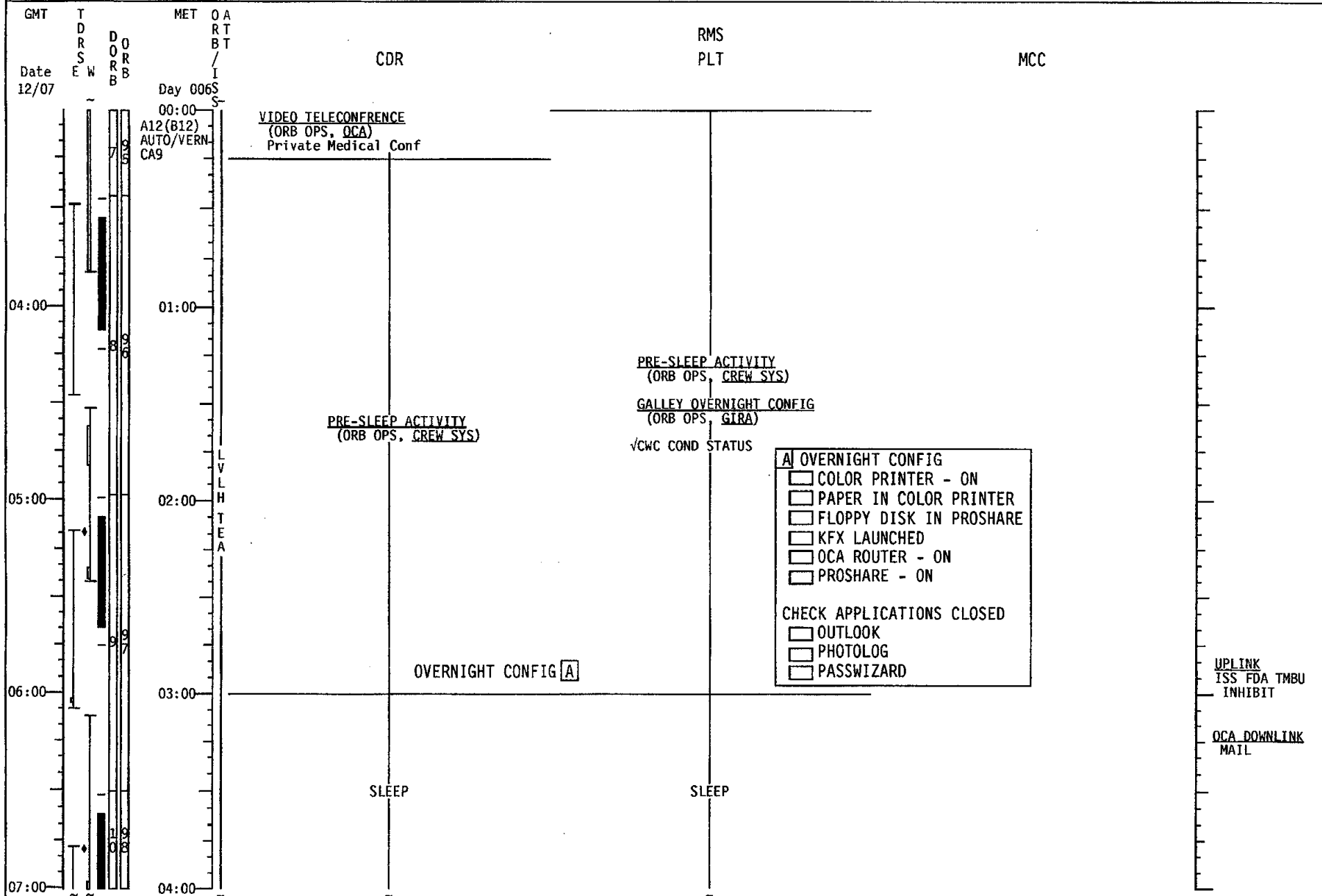
STS-97 (FD 07)



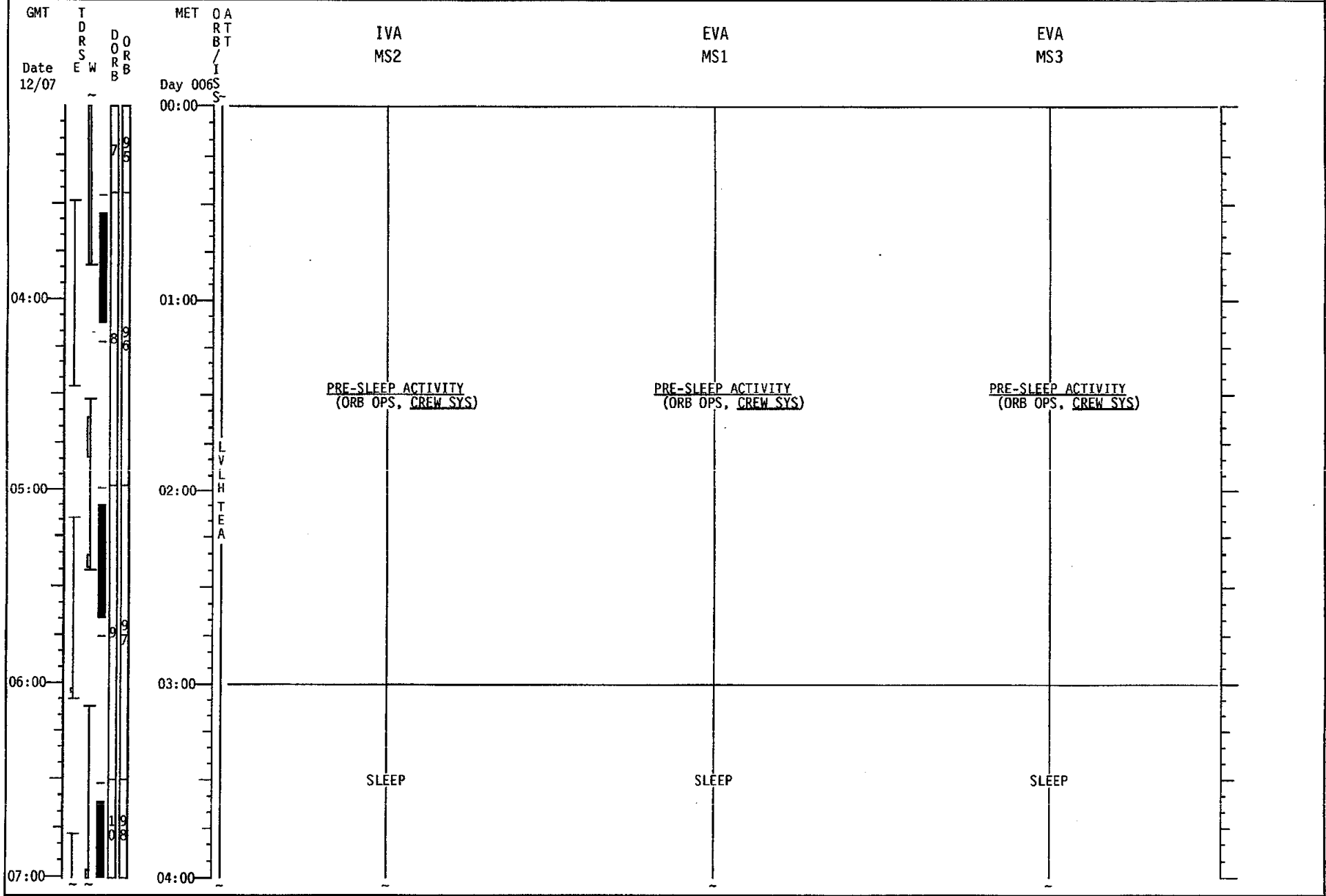
STS-97 (FD 07)



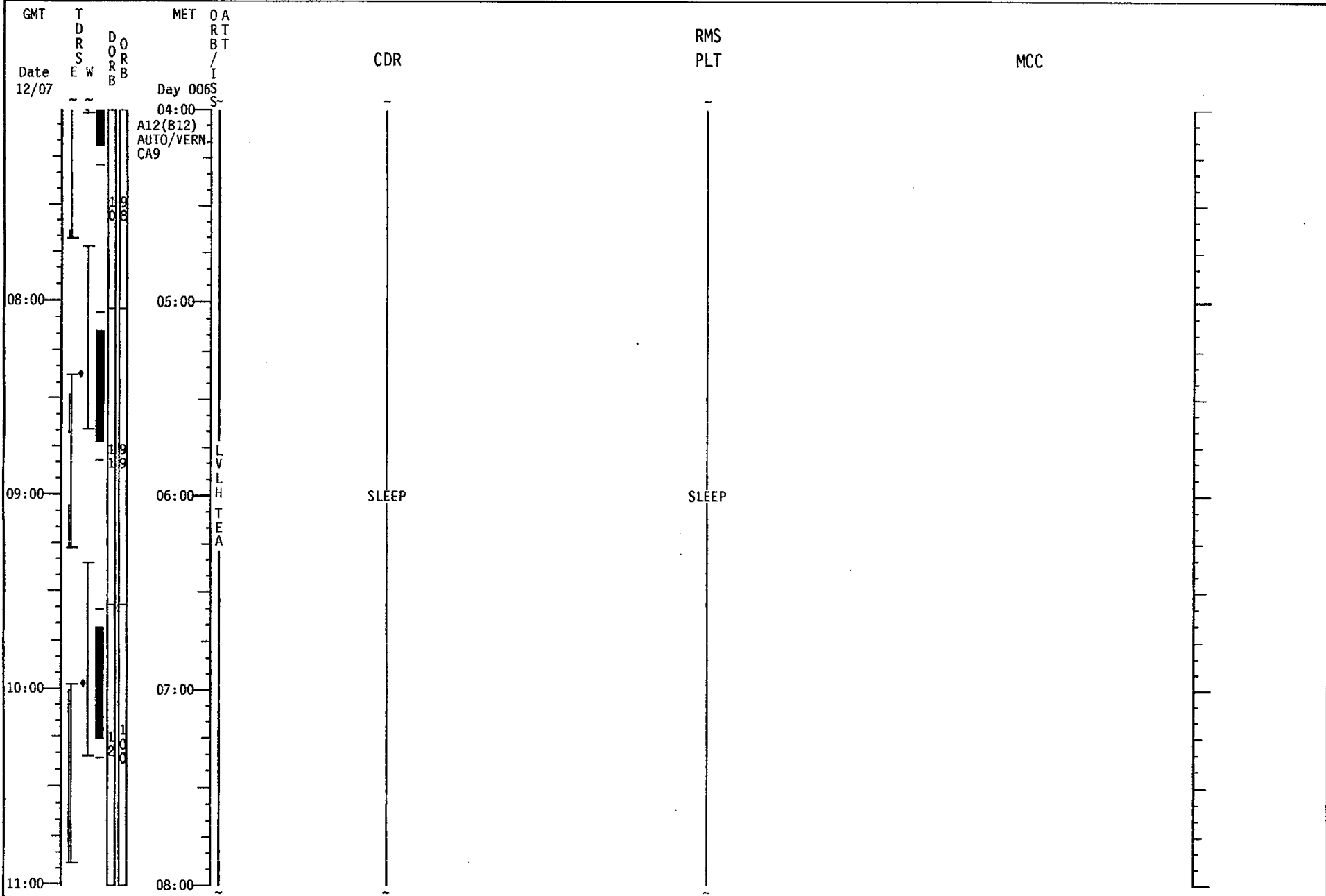
STS-97 (FD 07)



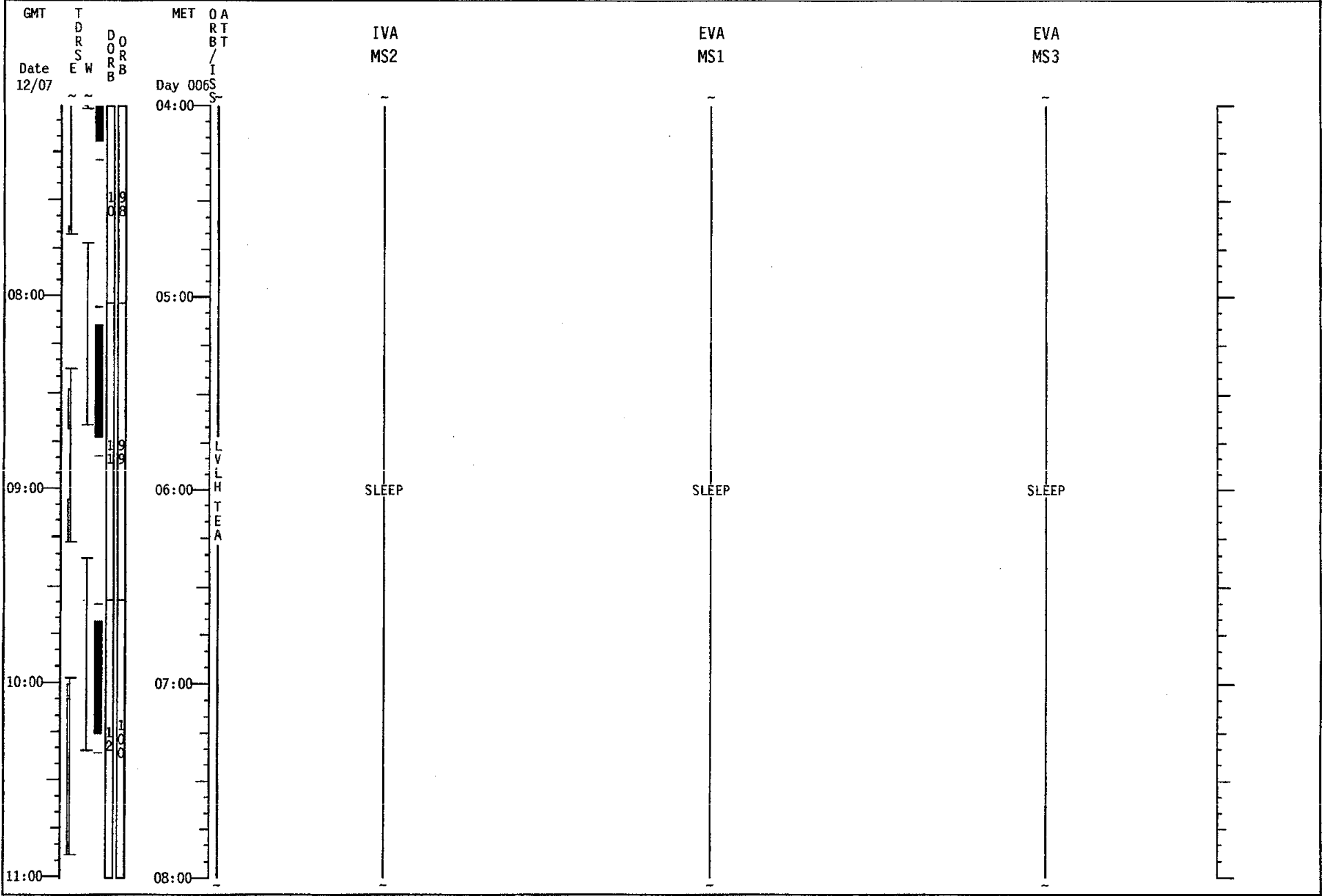
STS-97 (FD 07)



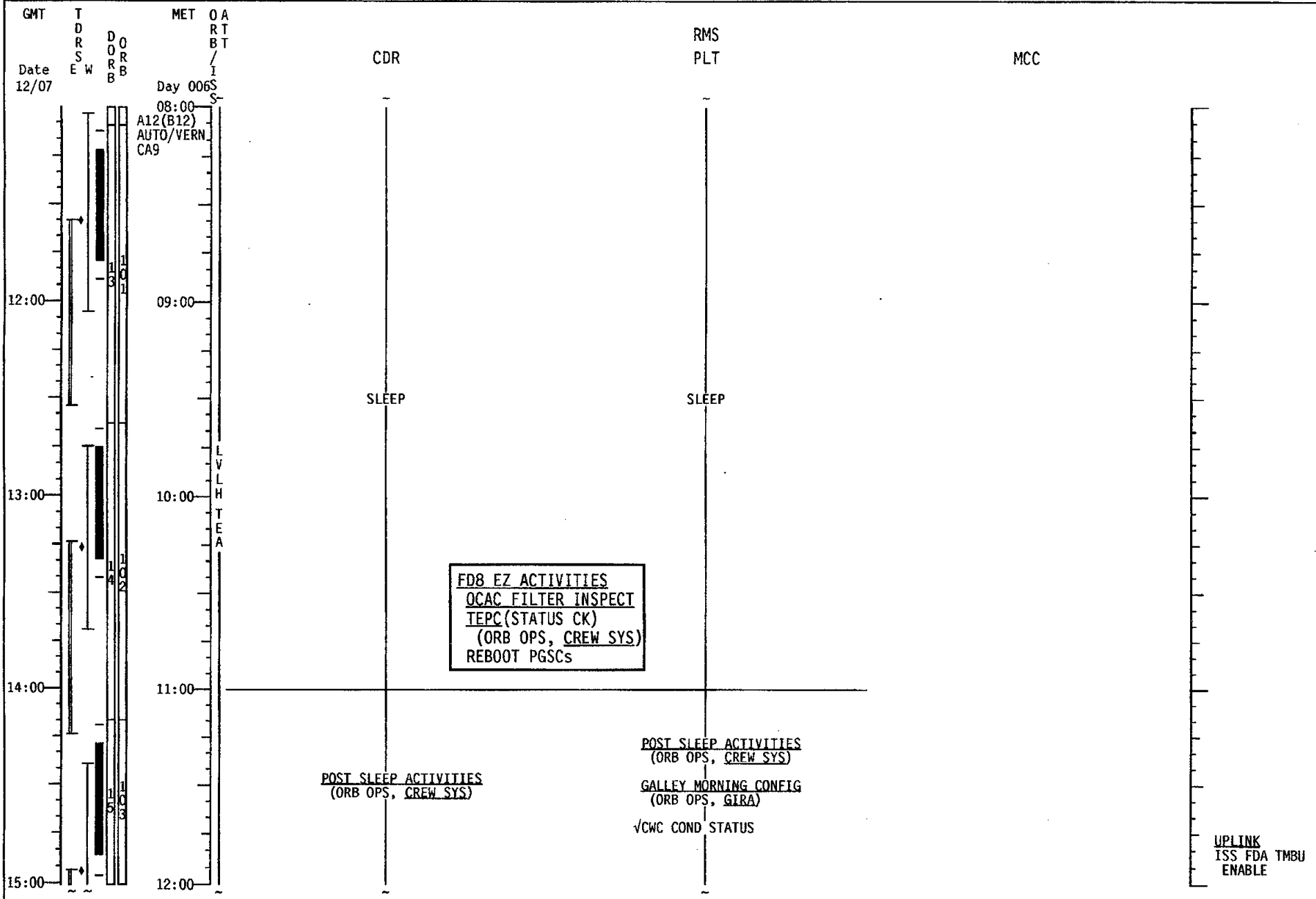
STS-97 (FD 07)



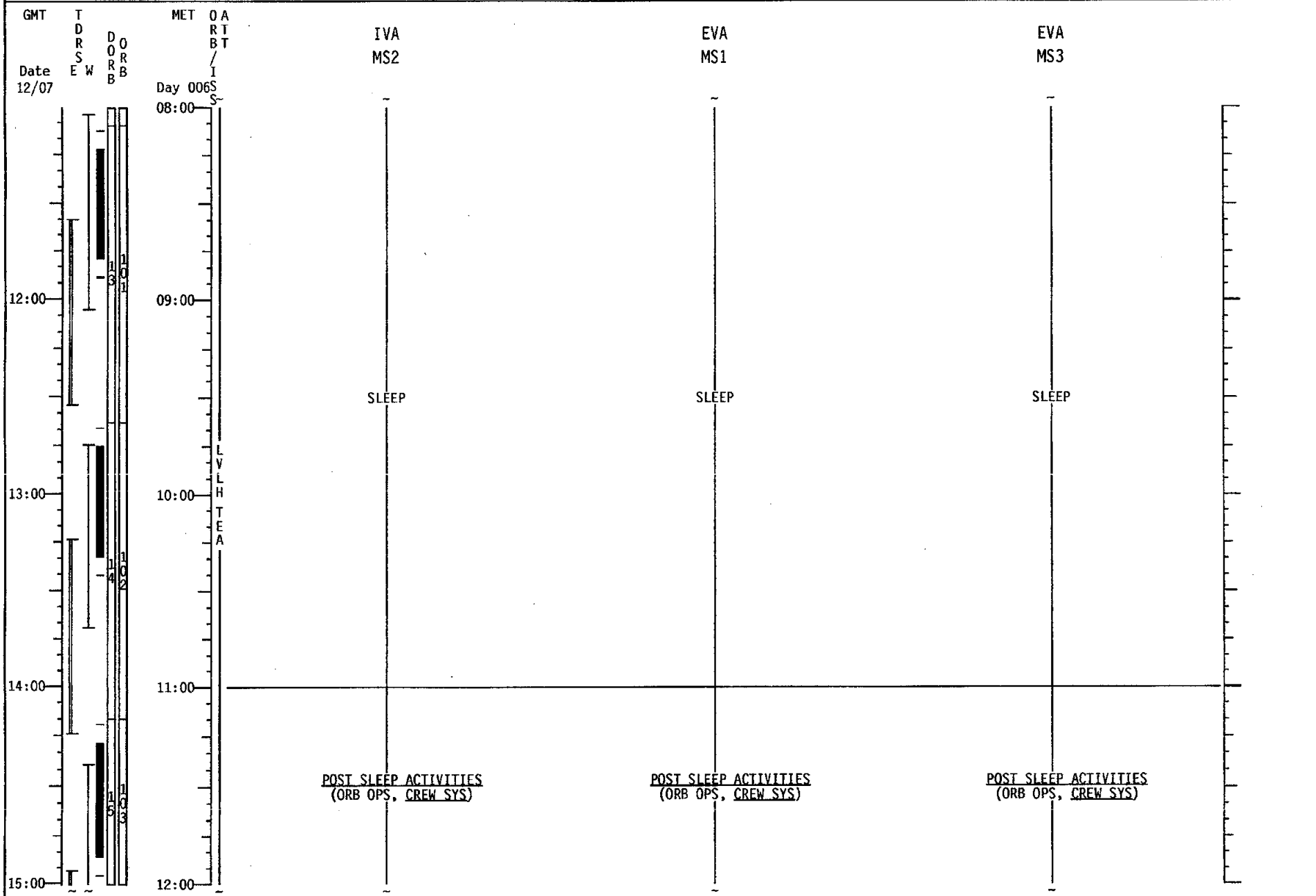
STS-97 (FD 07)



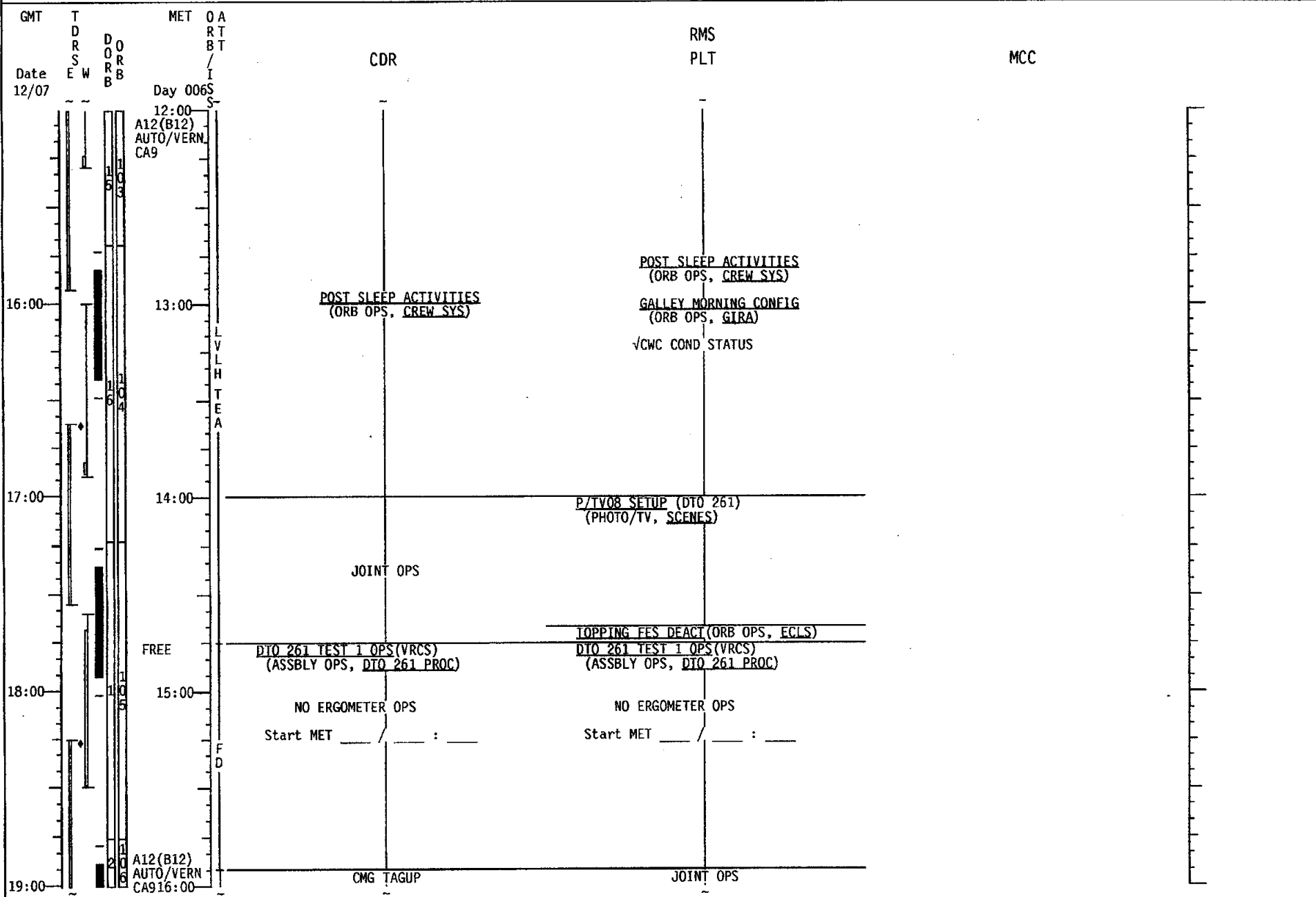
STS-97 (FD 07)



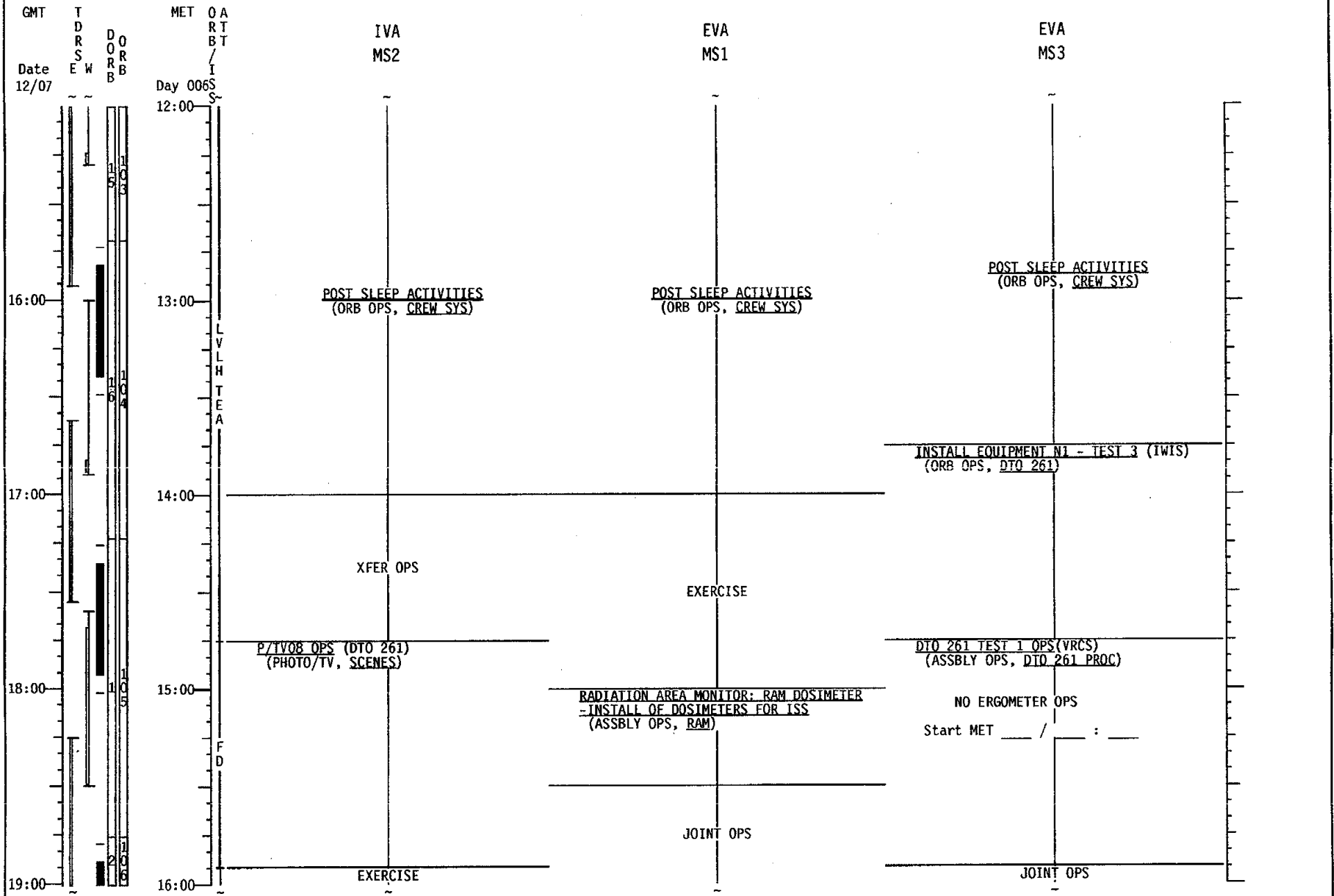
STS-97 (FD 07)



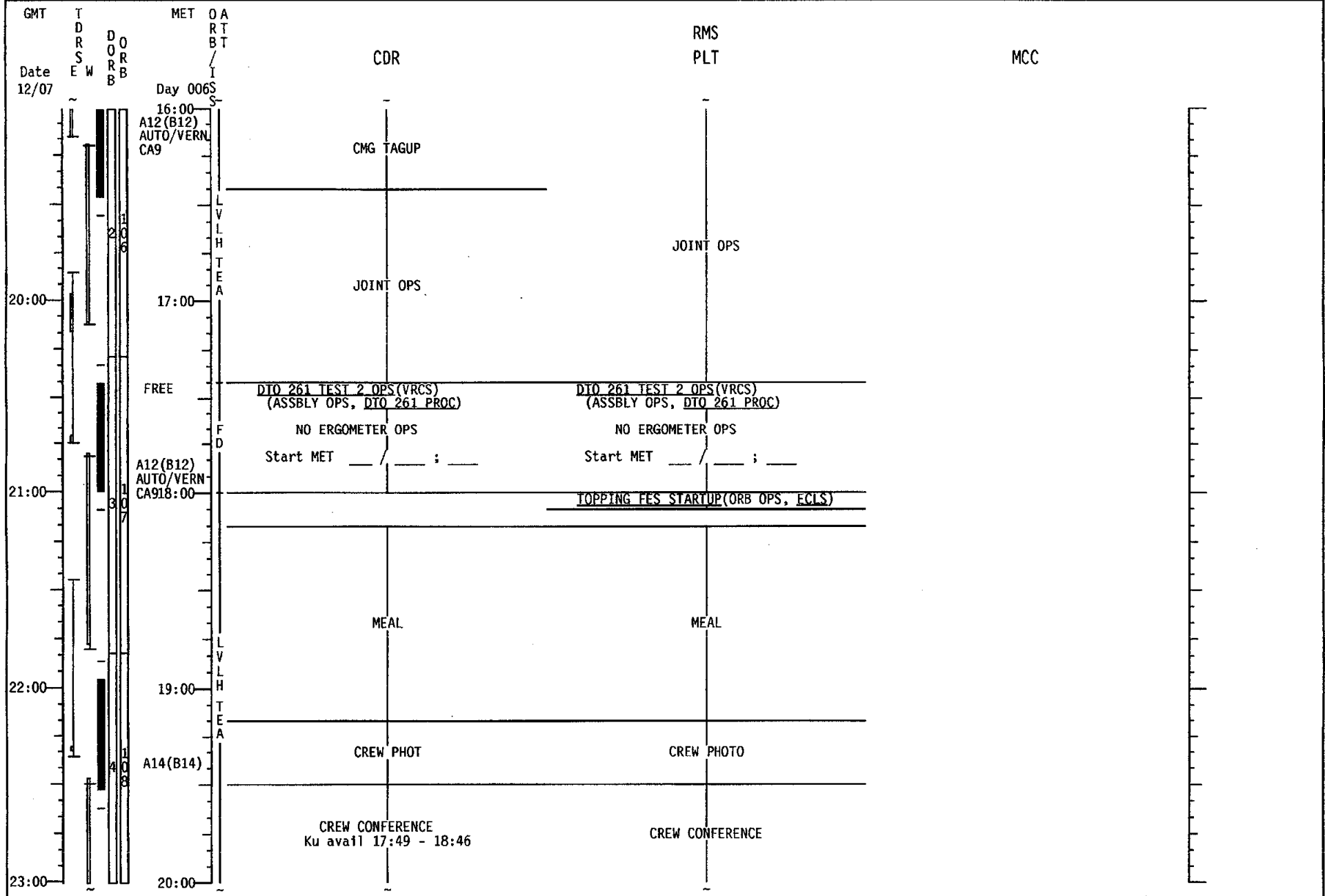
STS-97 (FD 08)



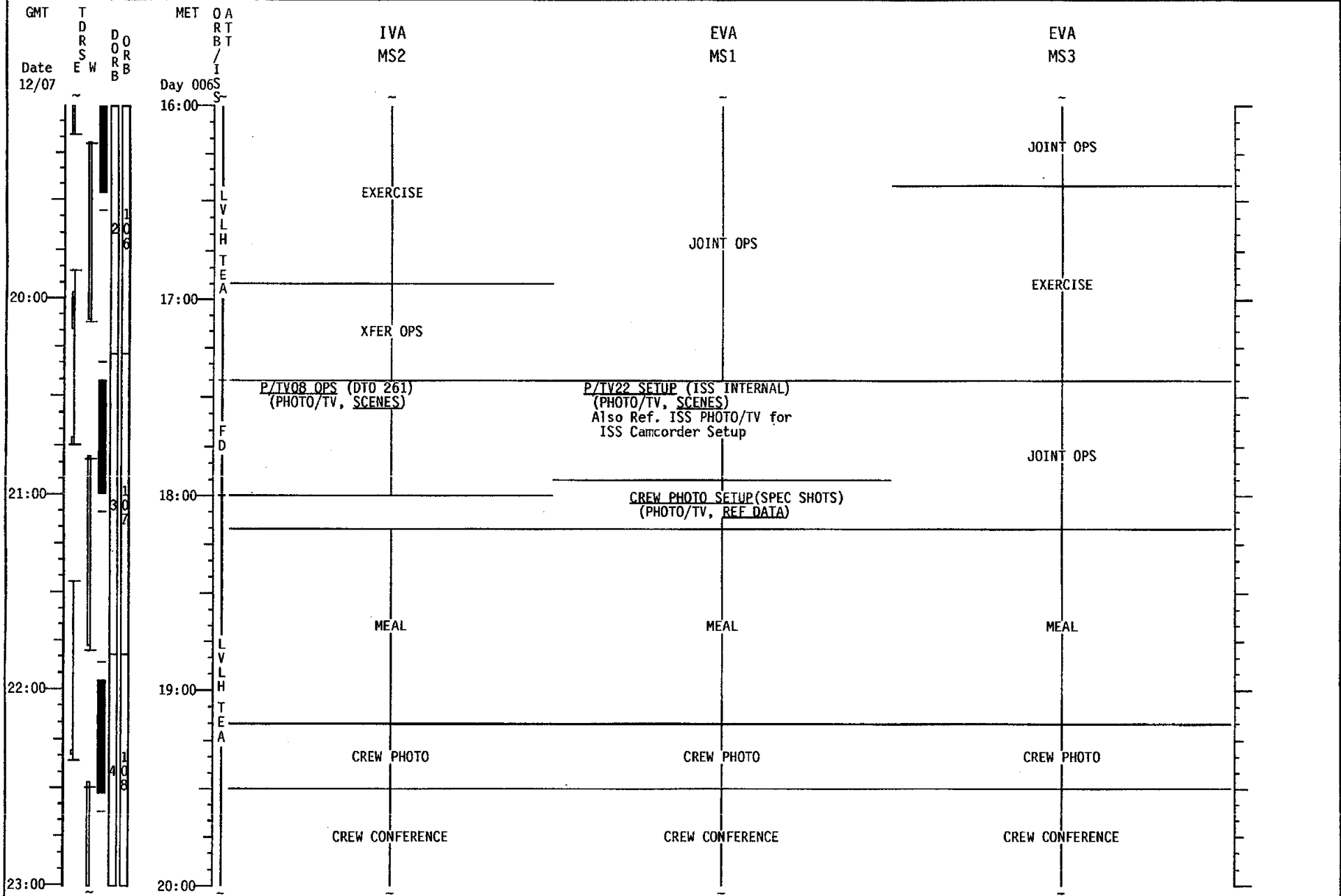
STS-97 (FD 08)



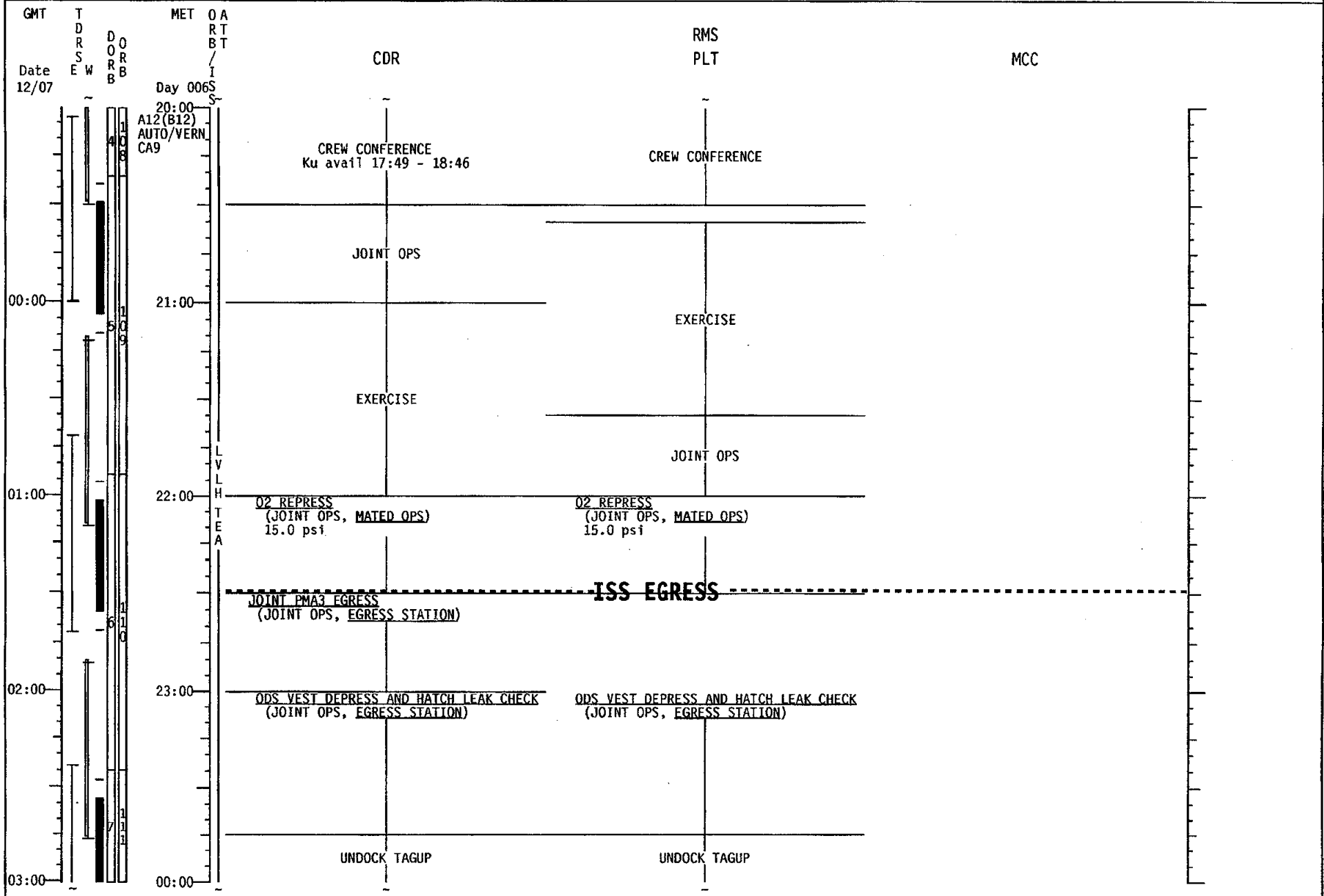
STS-97 (FD 08)



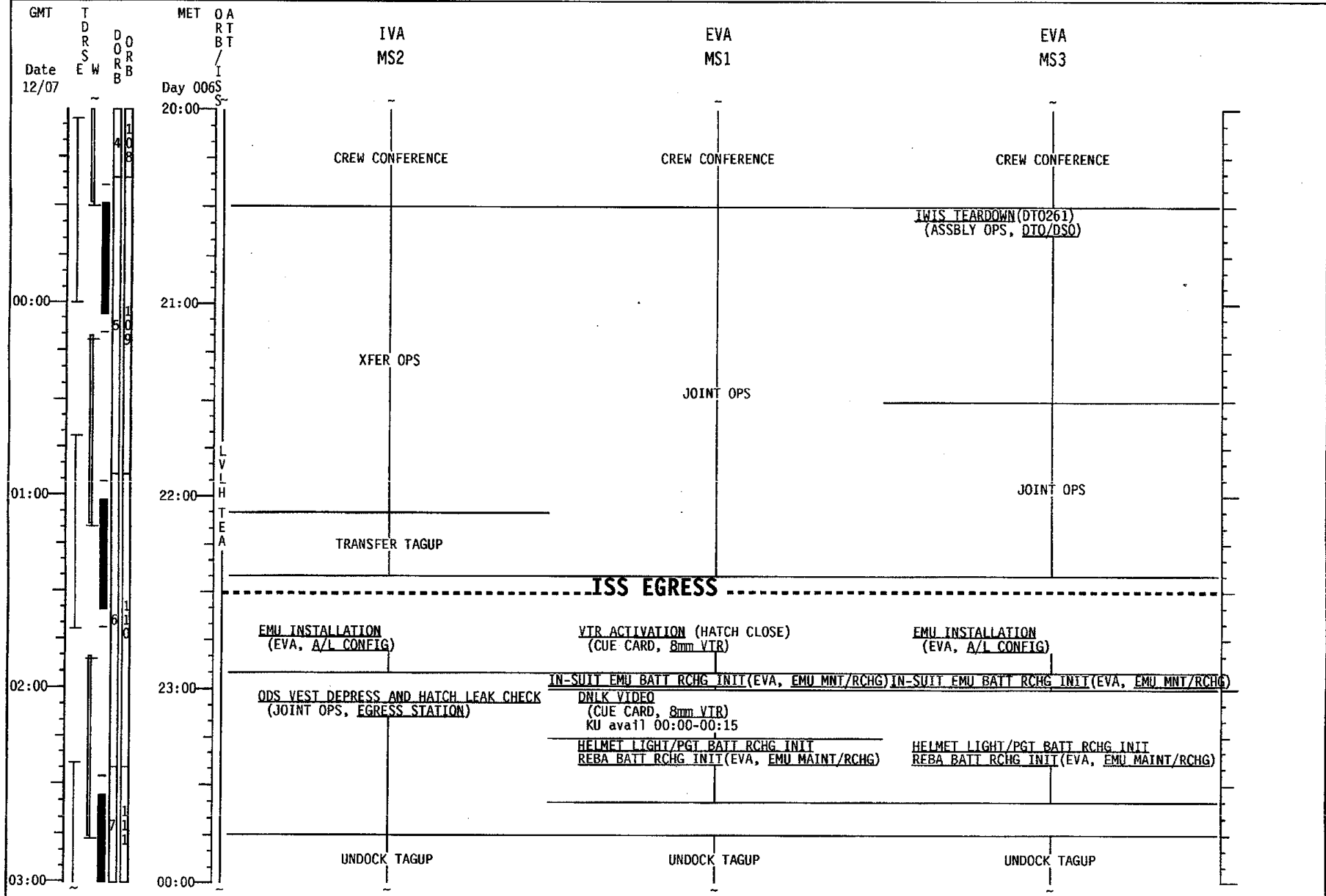
STS-97 (FD 08)



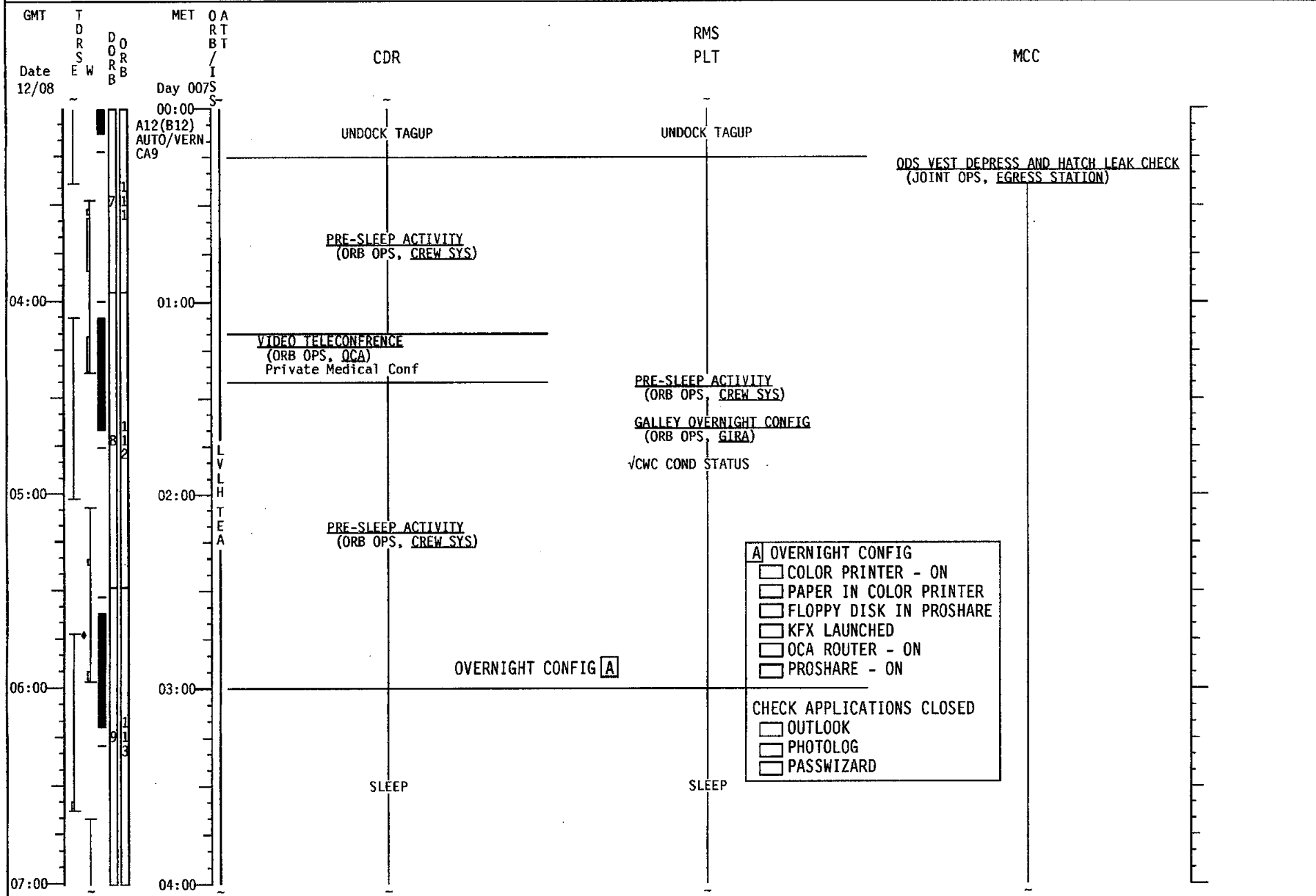
STS-97 (FD 08)



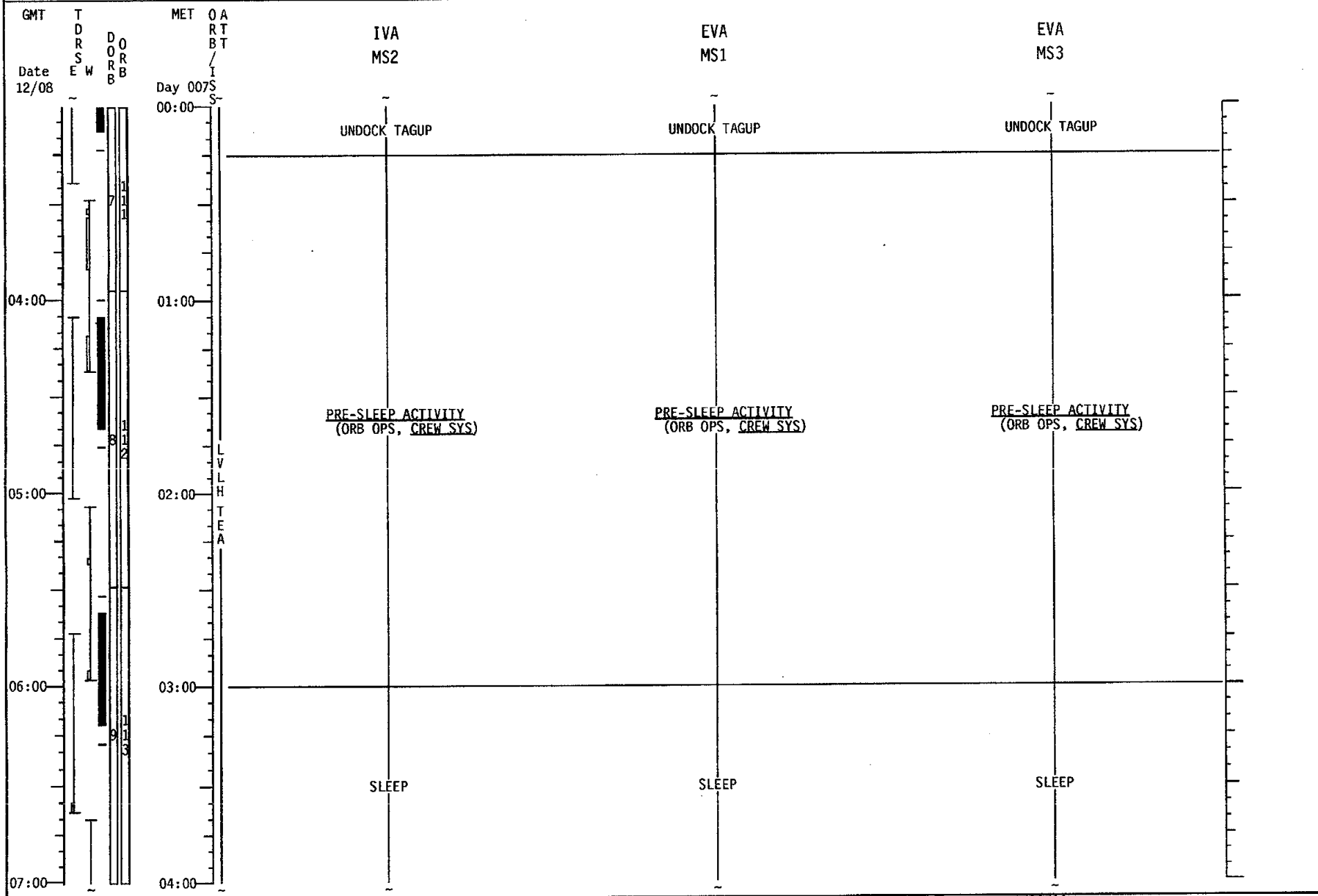
STS-97 (FD 08)



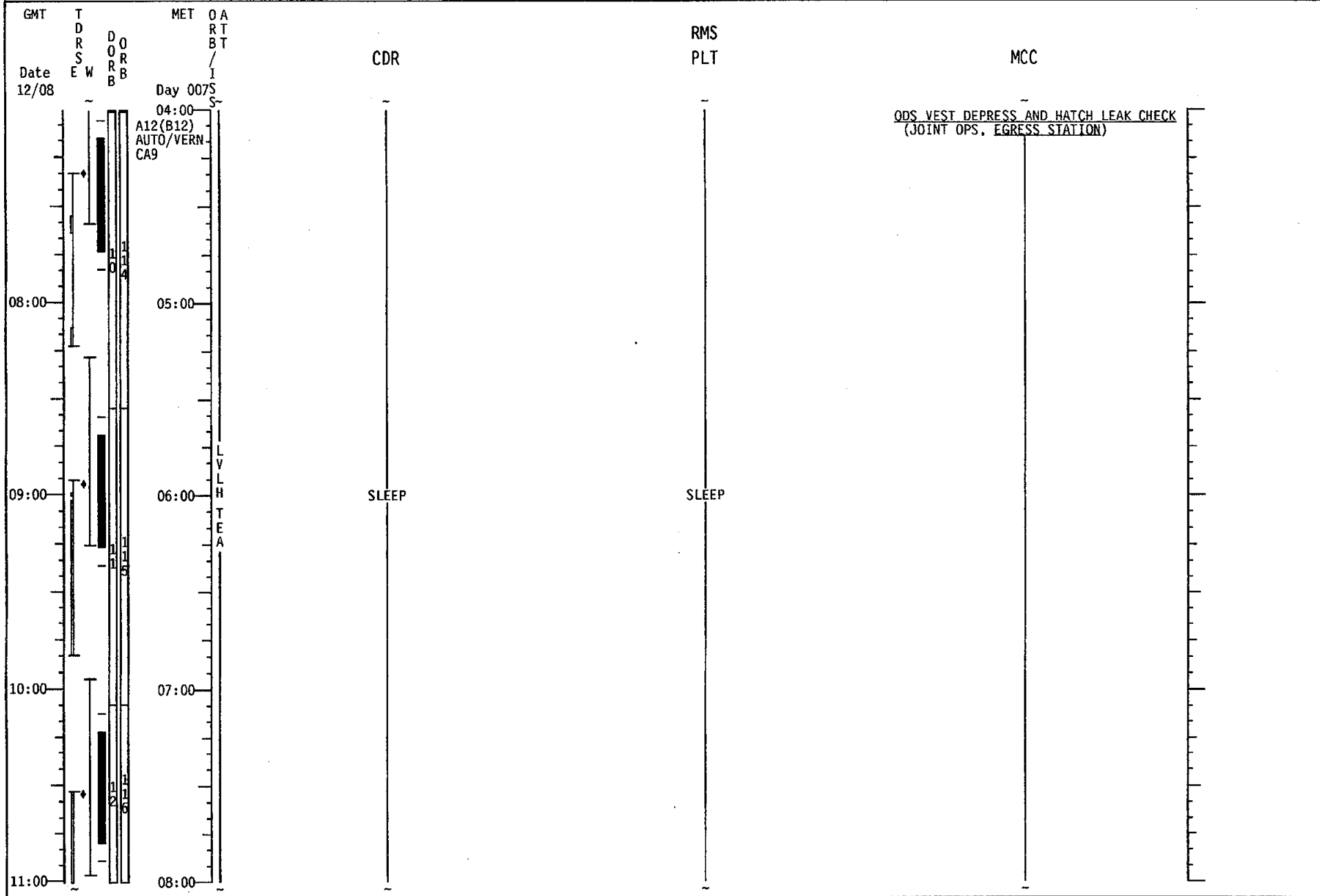
STS-97 (FD 08)



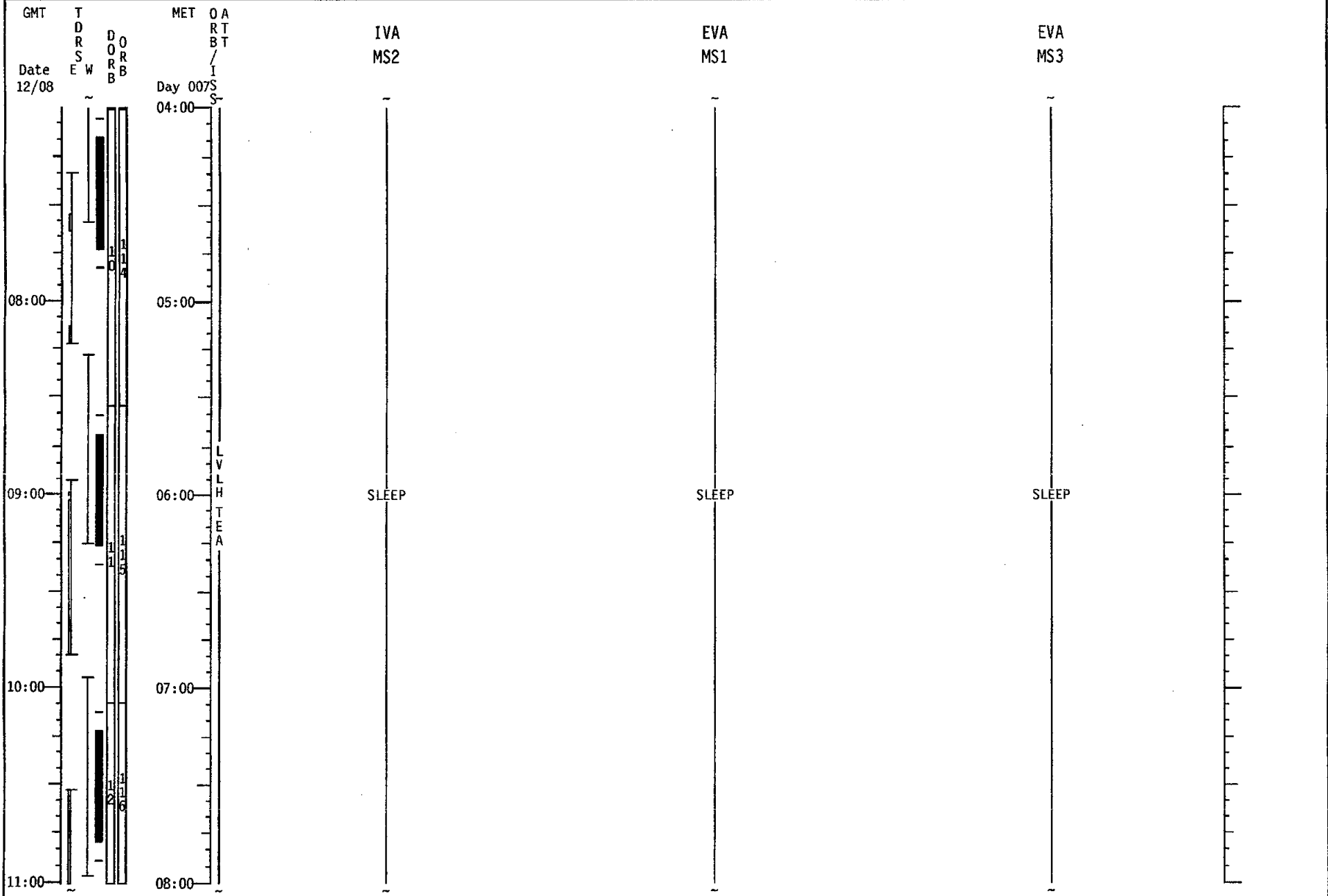
STS-97 (FD 08)



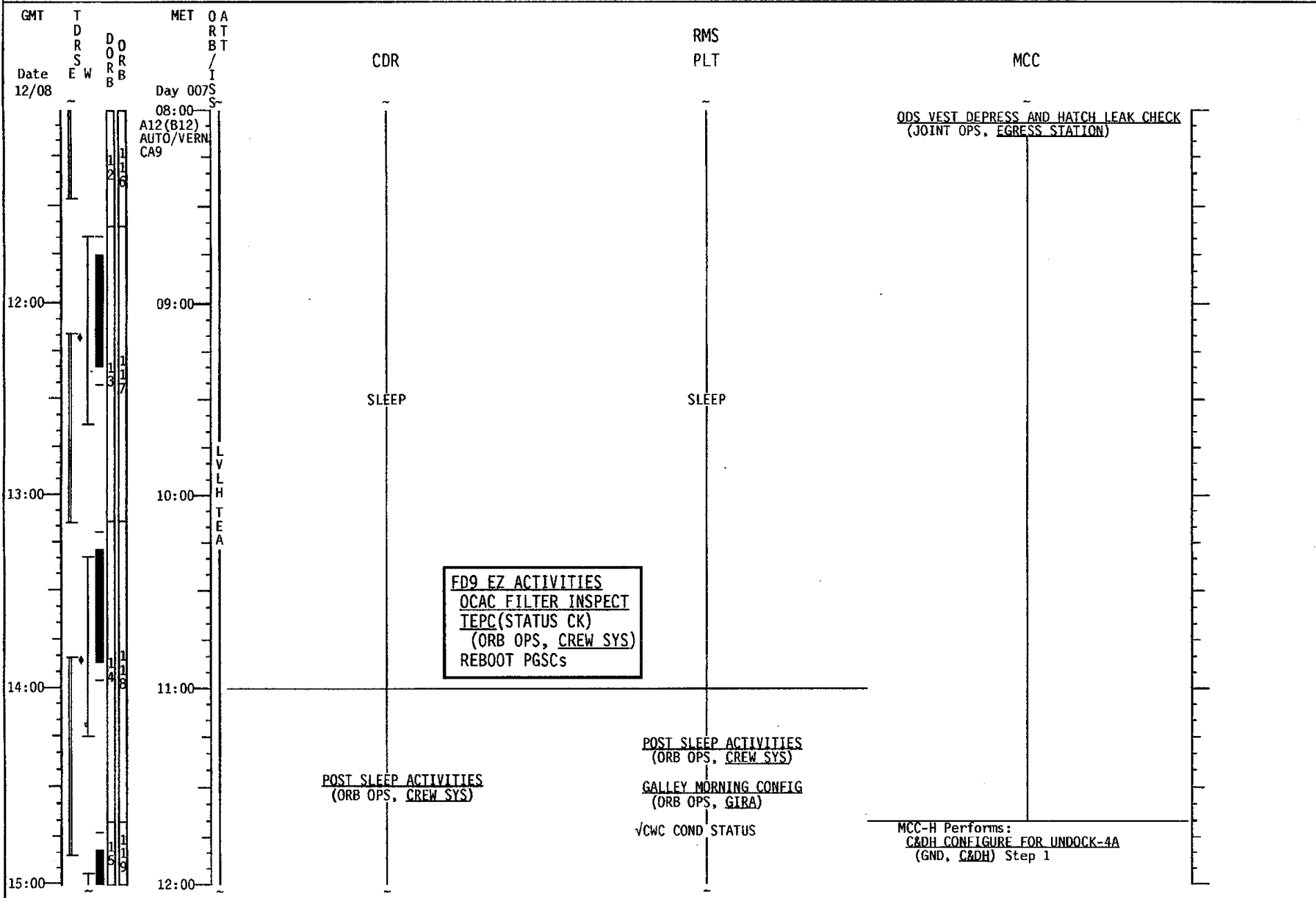
STS-97 (FD 08)



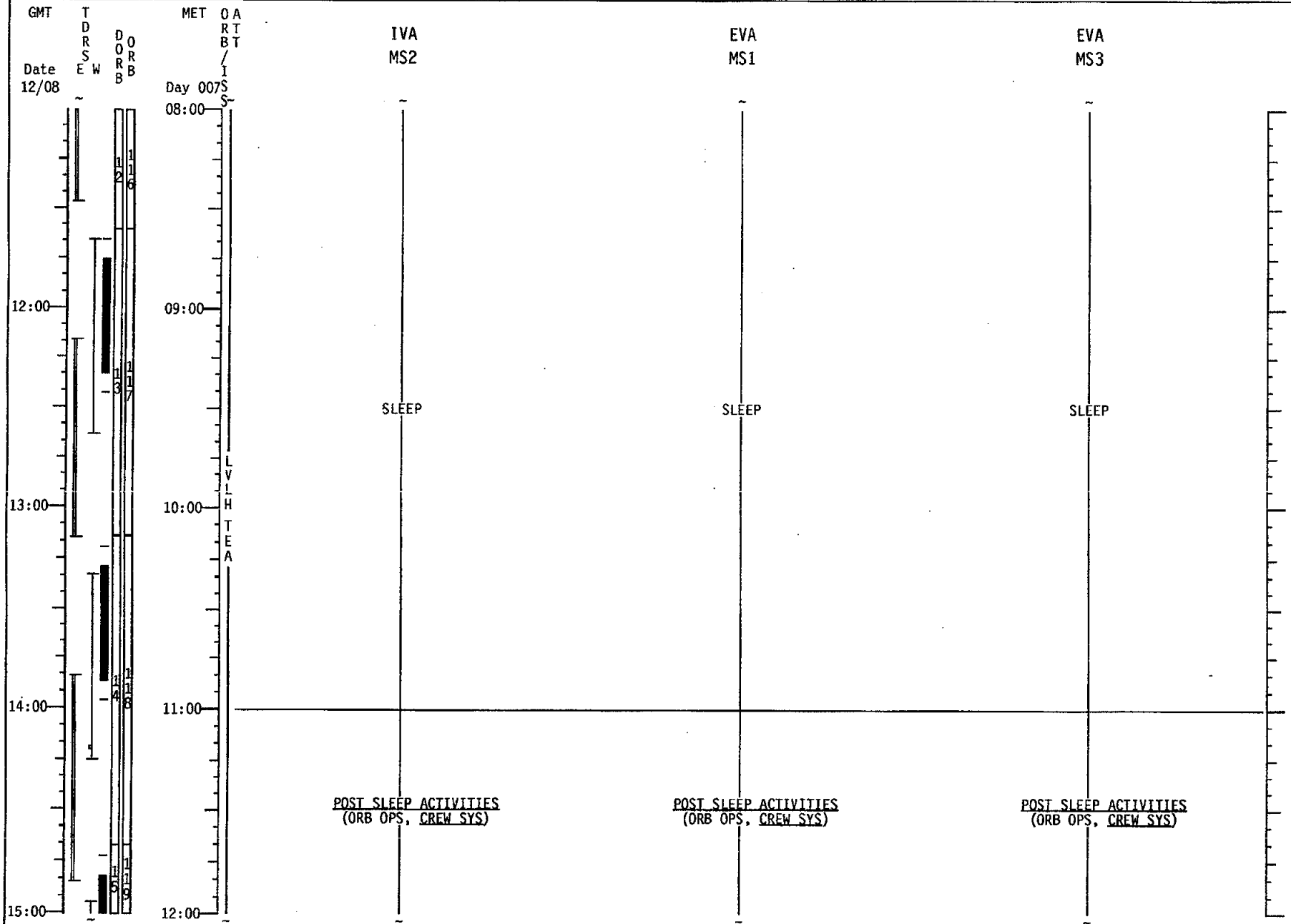
STS-97 (FD 08)



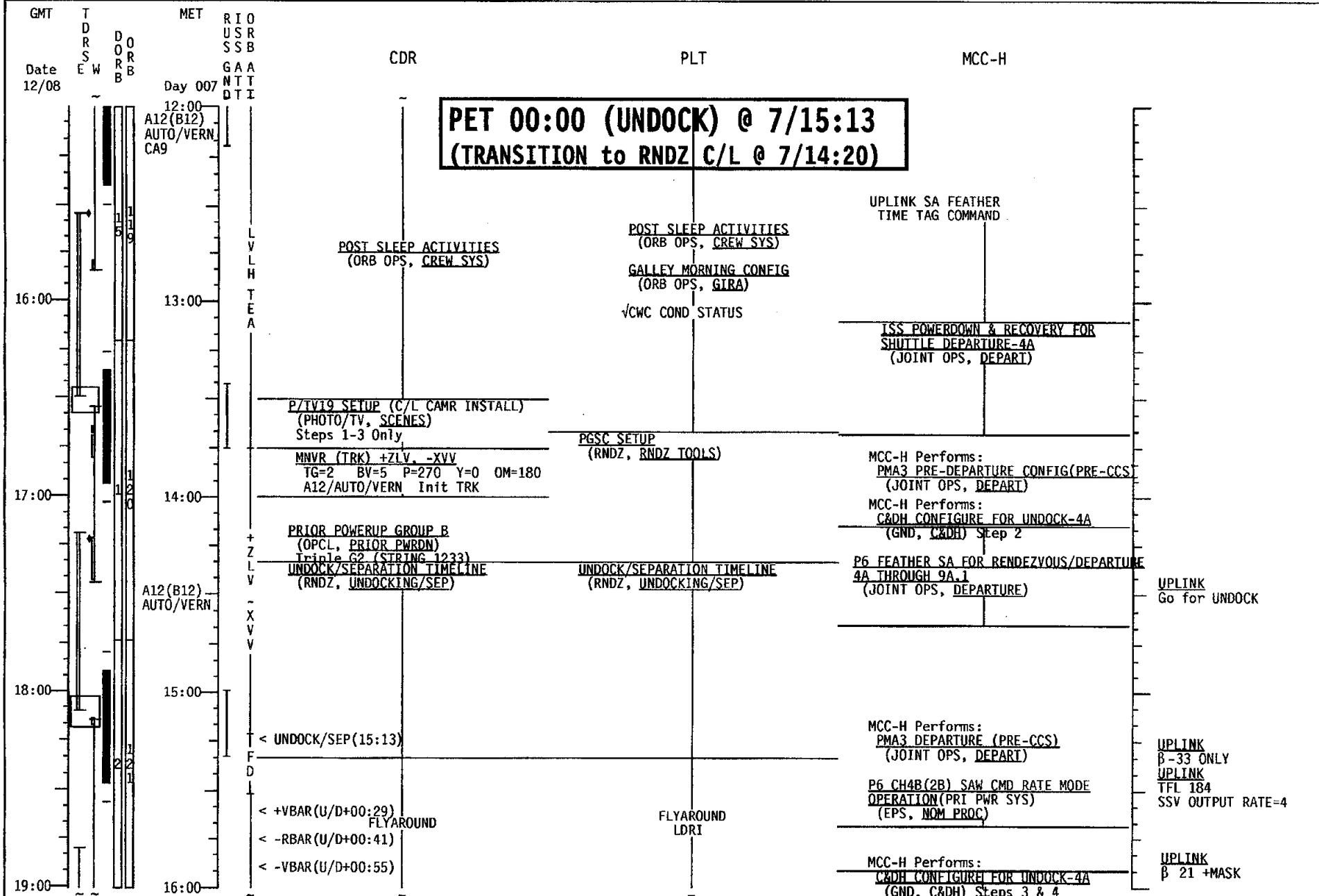
STS-97 (FD 08)



STS-97 (FD 08)

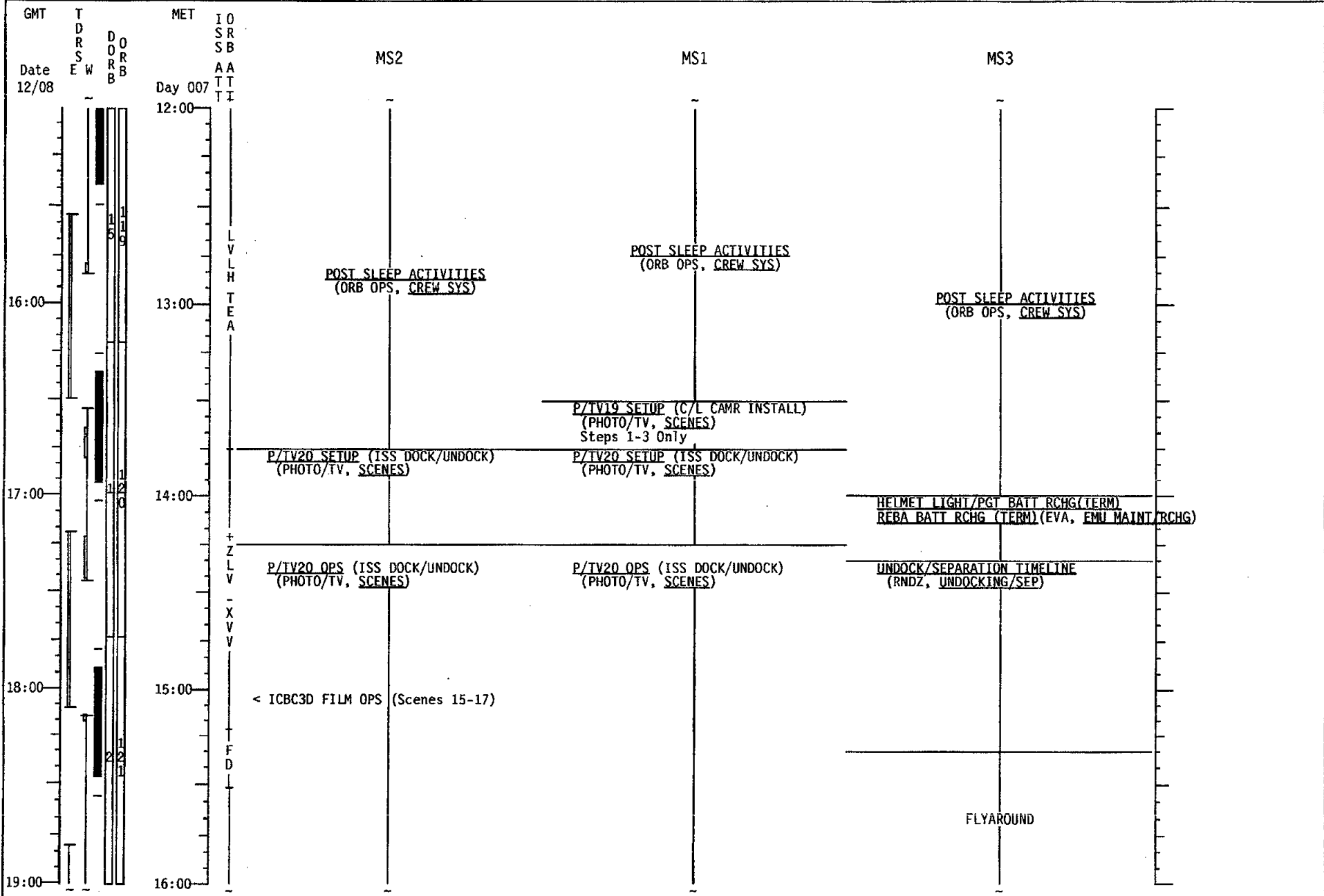


STS-97 (FD 09)

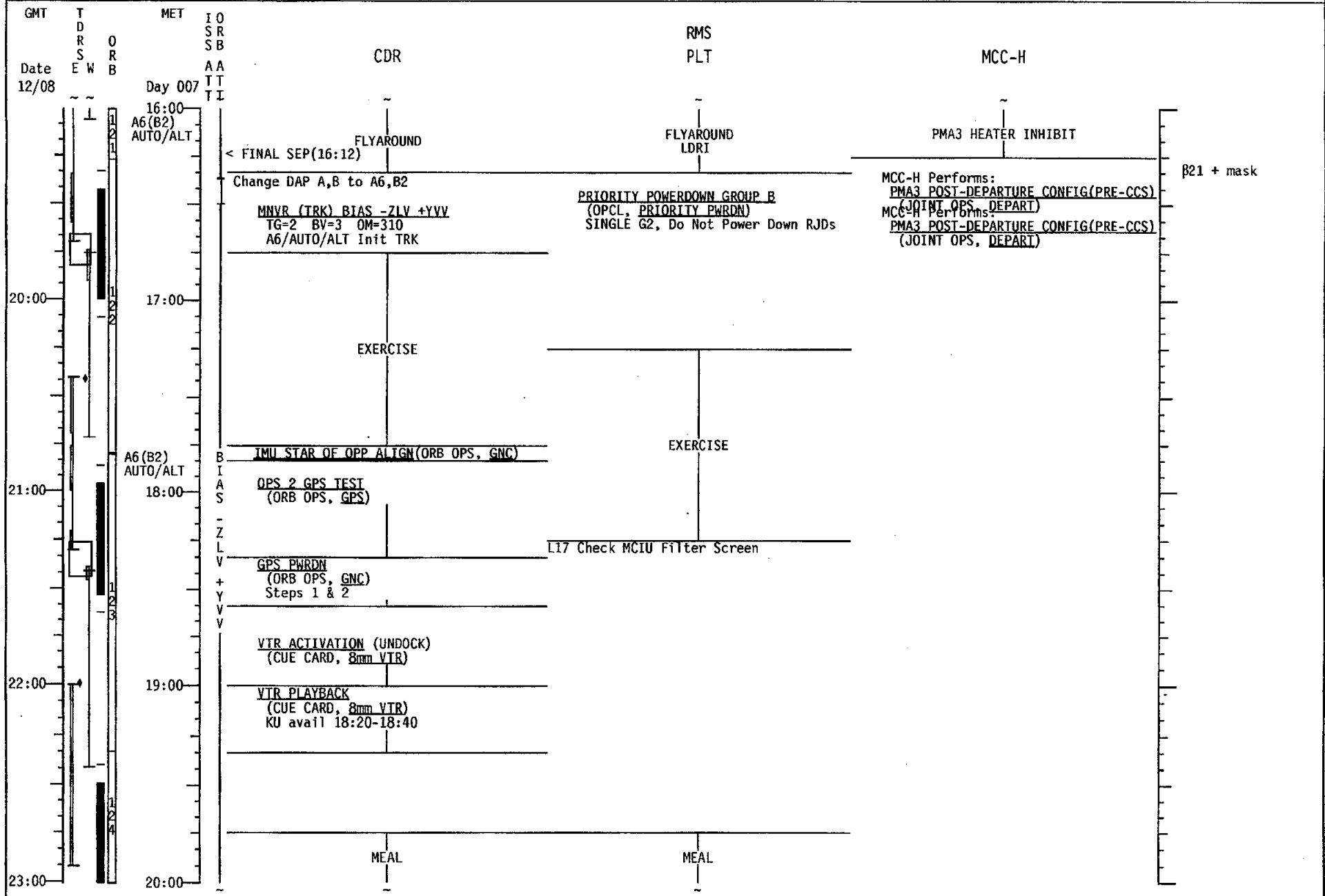


**PET 00:00 (UNDOCK) @ 7/15:13
(TRANSITION to RNDZ C/L @ 7/14:20)**

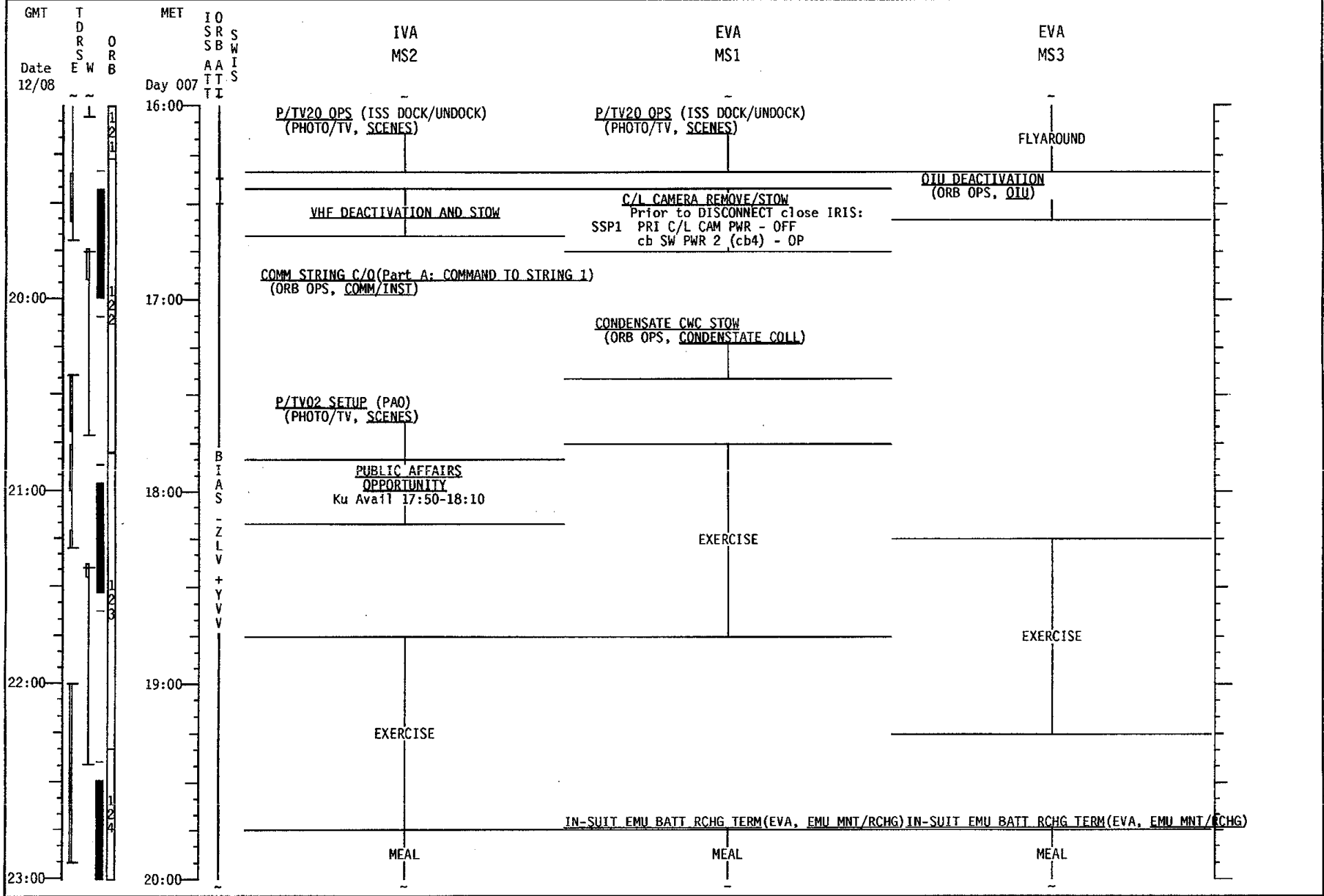
STS-97 (FD 09)



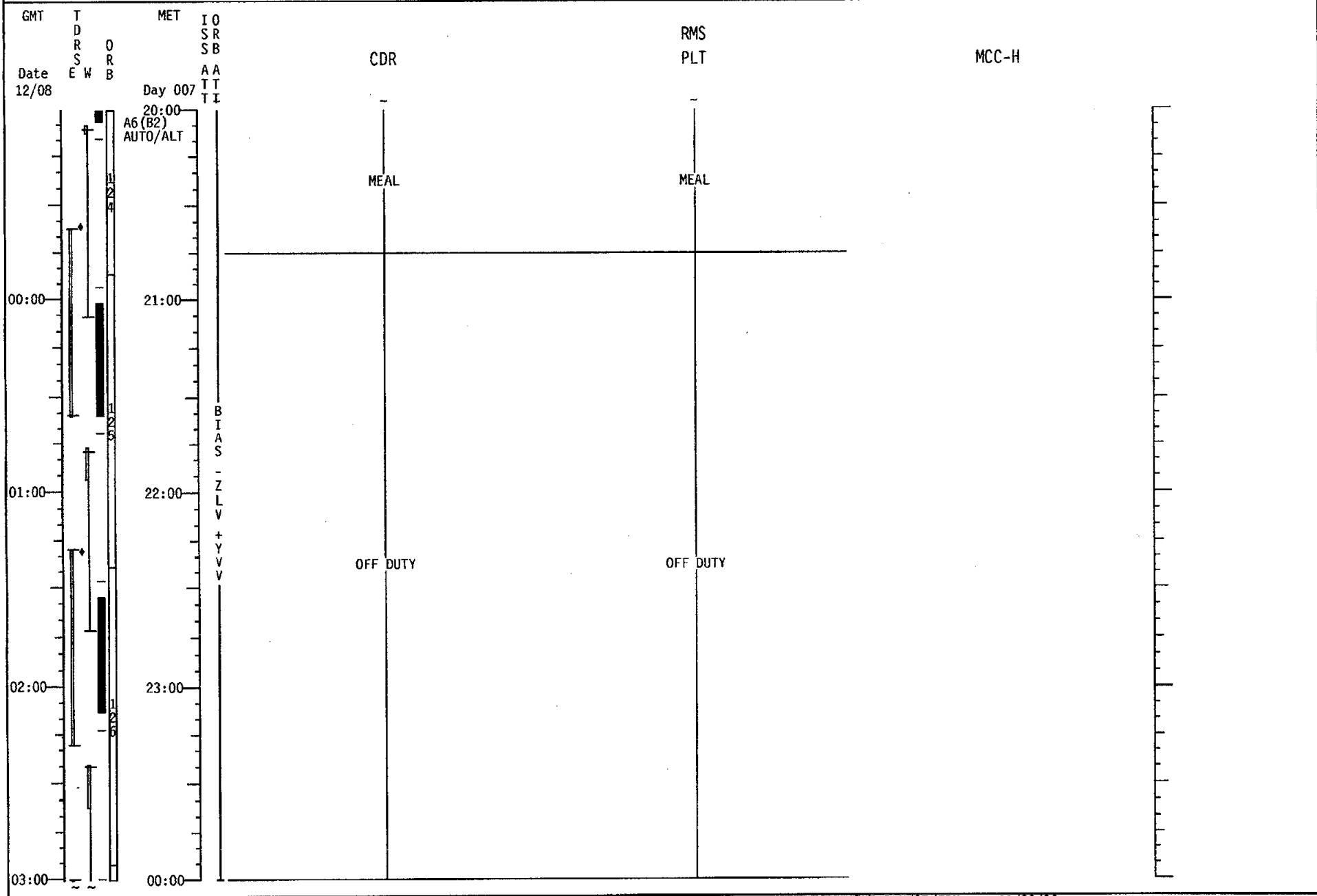
STS-97 (FD 09)



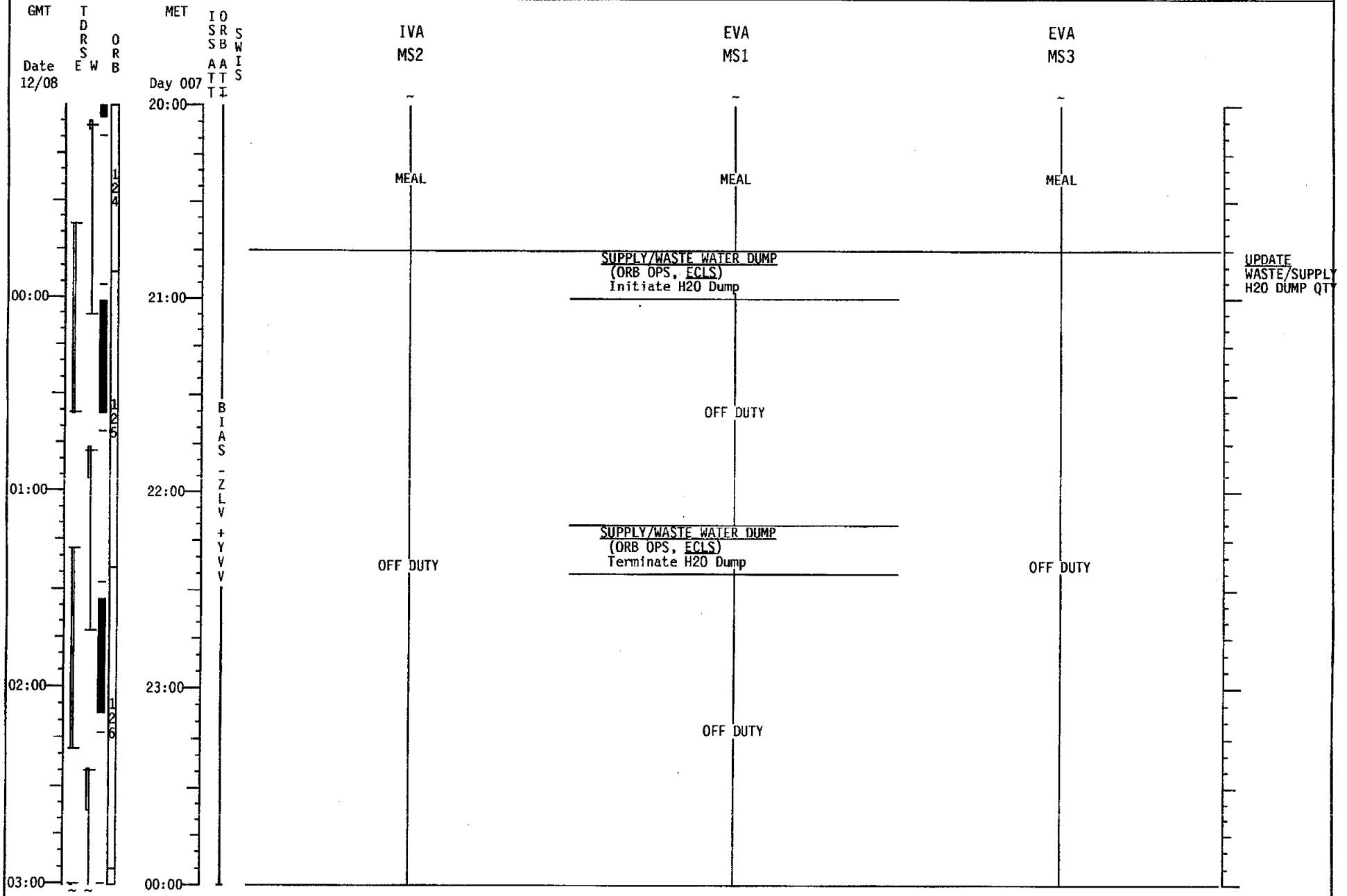
STS-97 (FD 09)



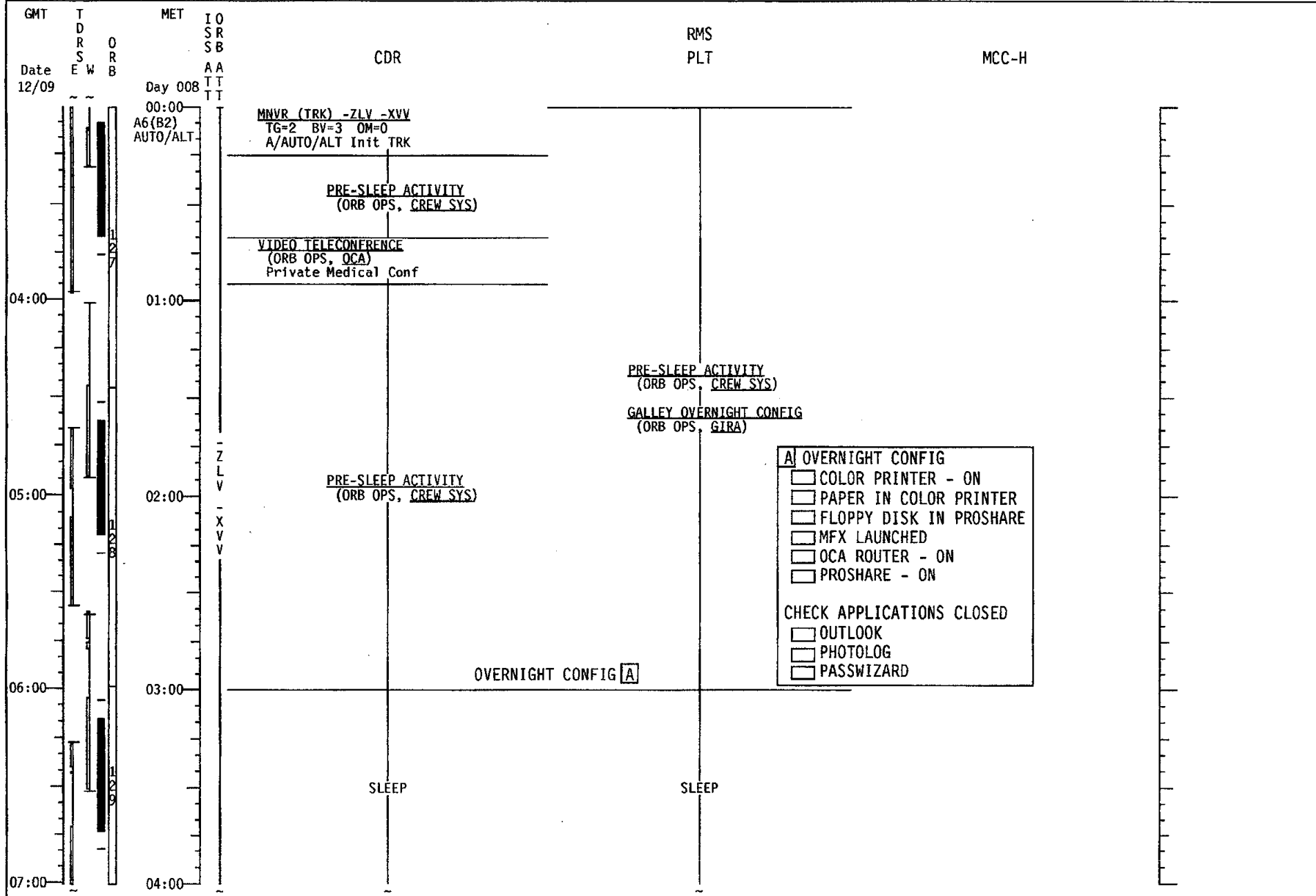
STS-97 (FD 09)



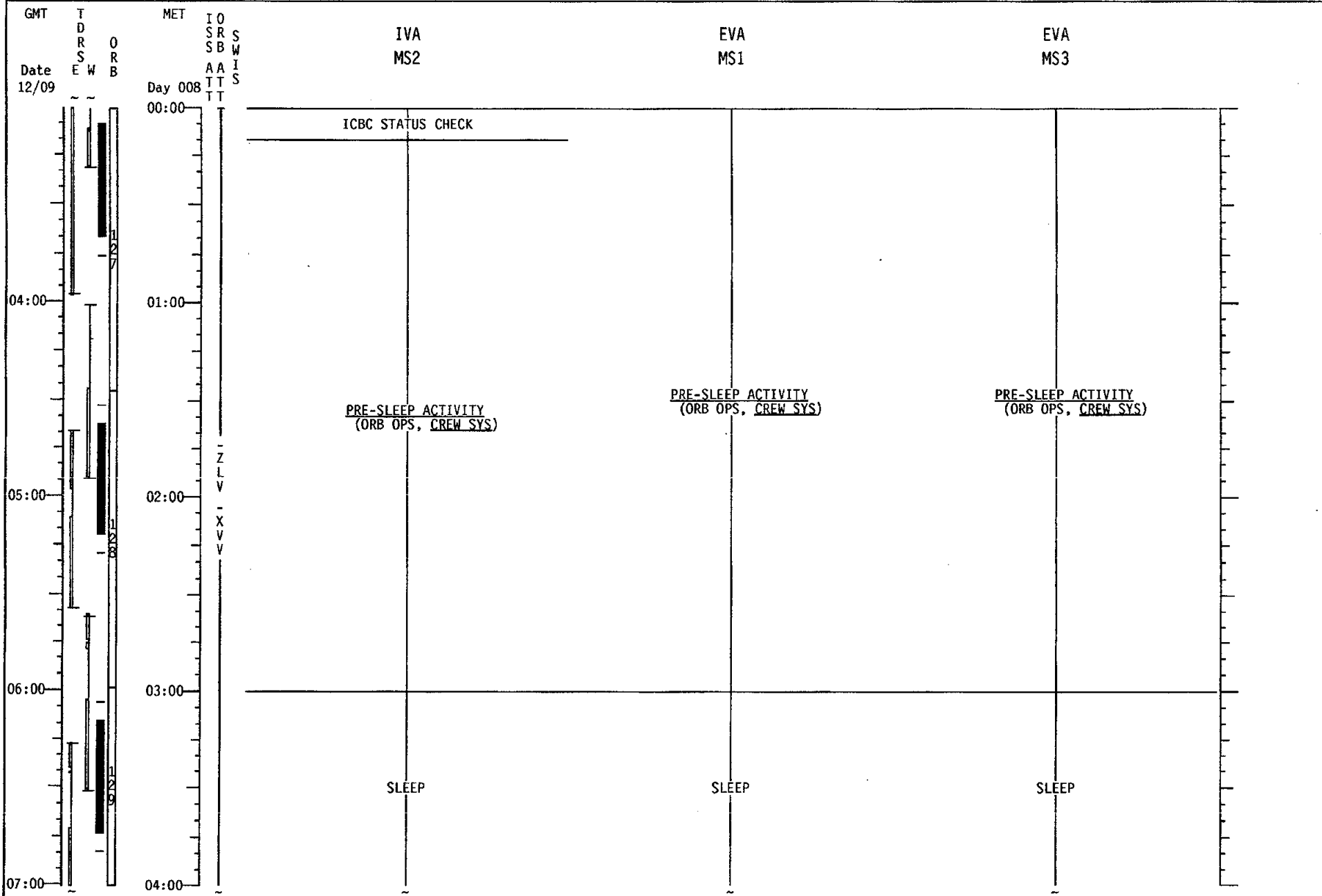
STS-97 (FD 09)



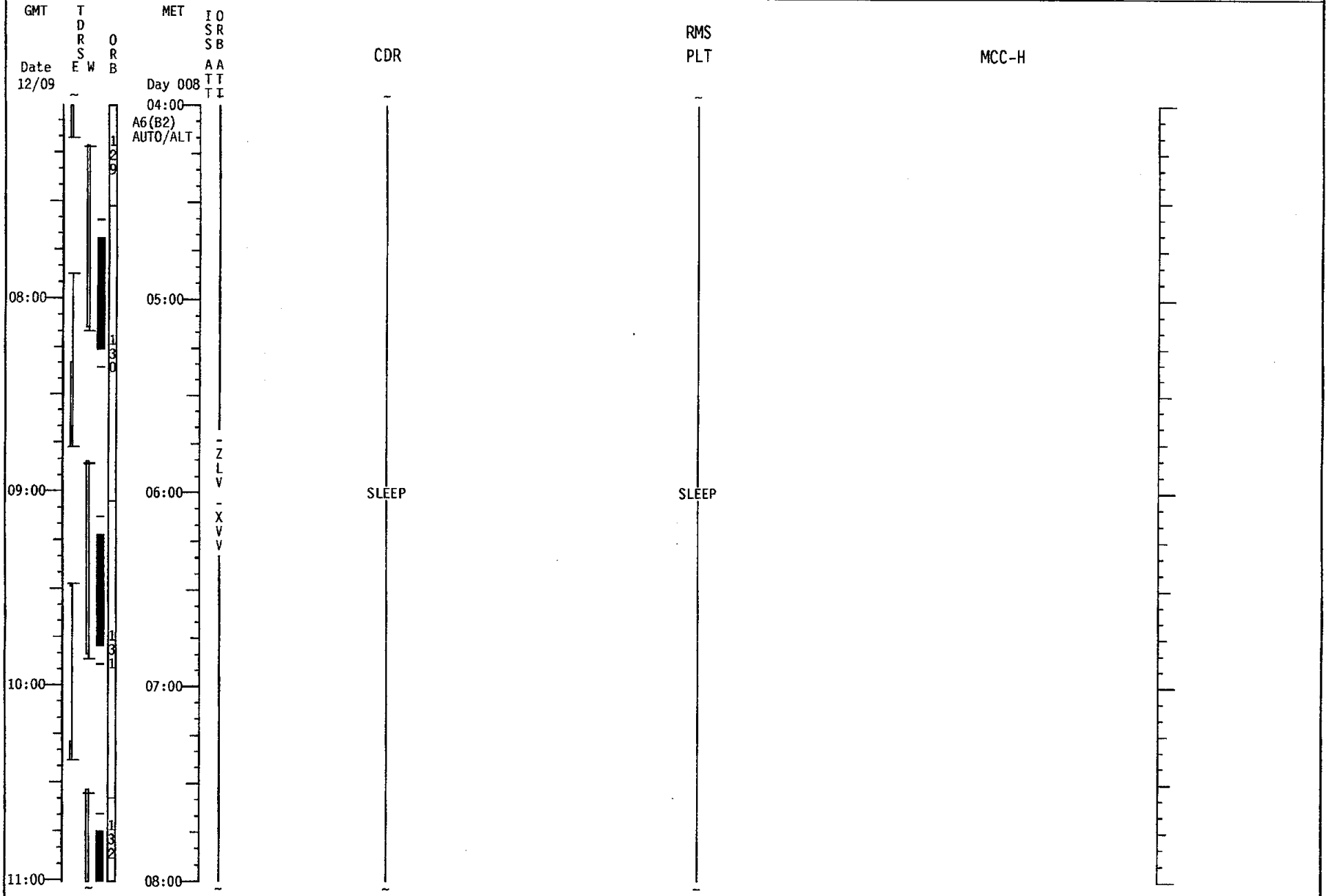
STS-97 (FD 09)



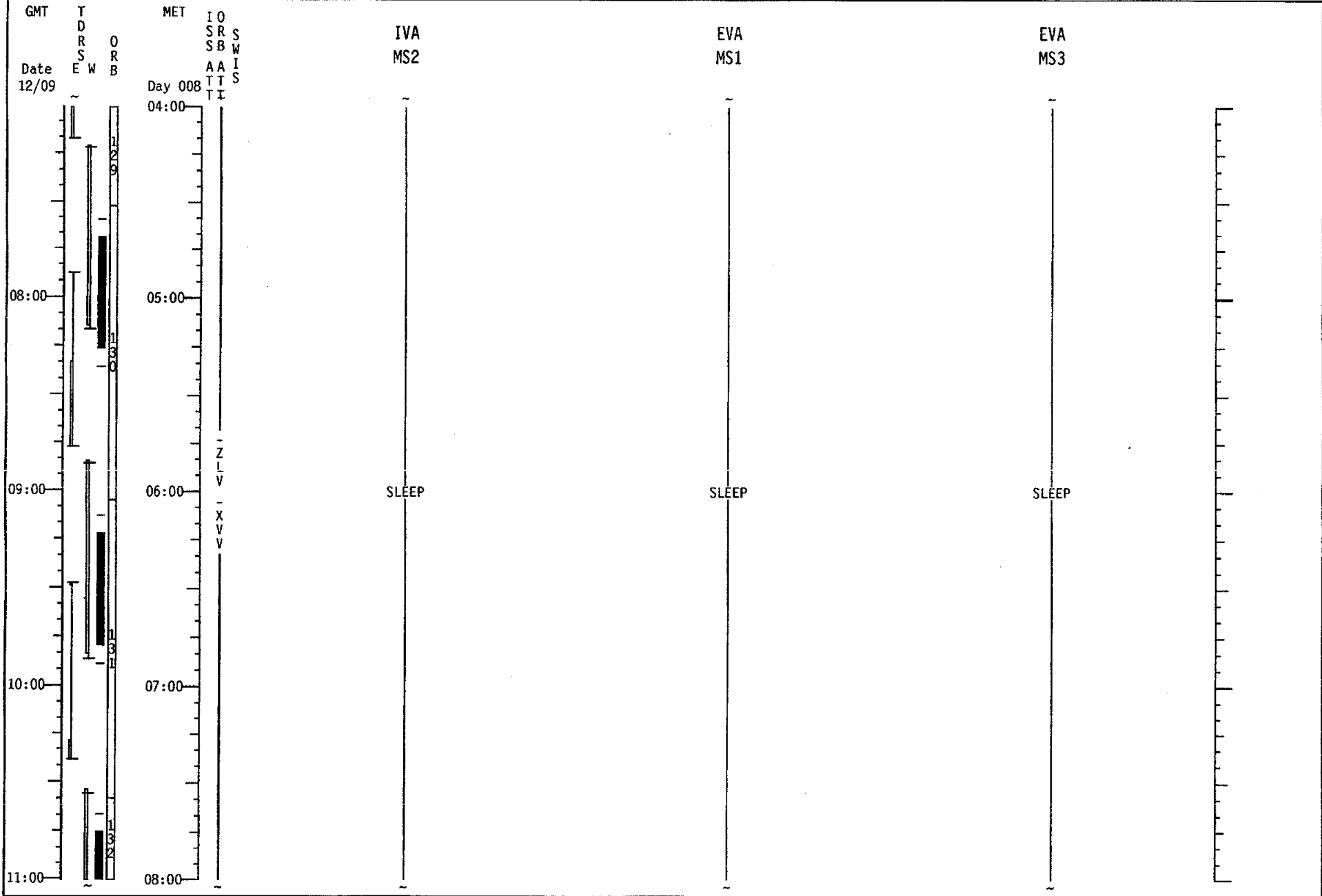
STS-97 (FD 09)



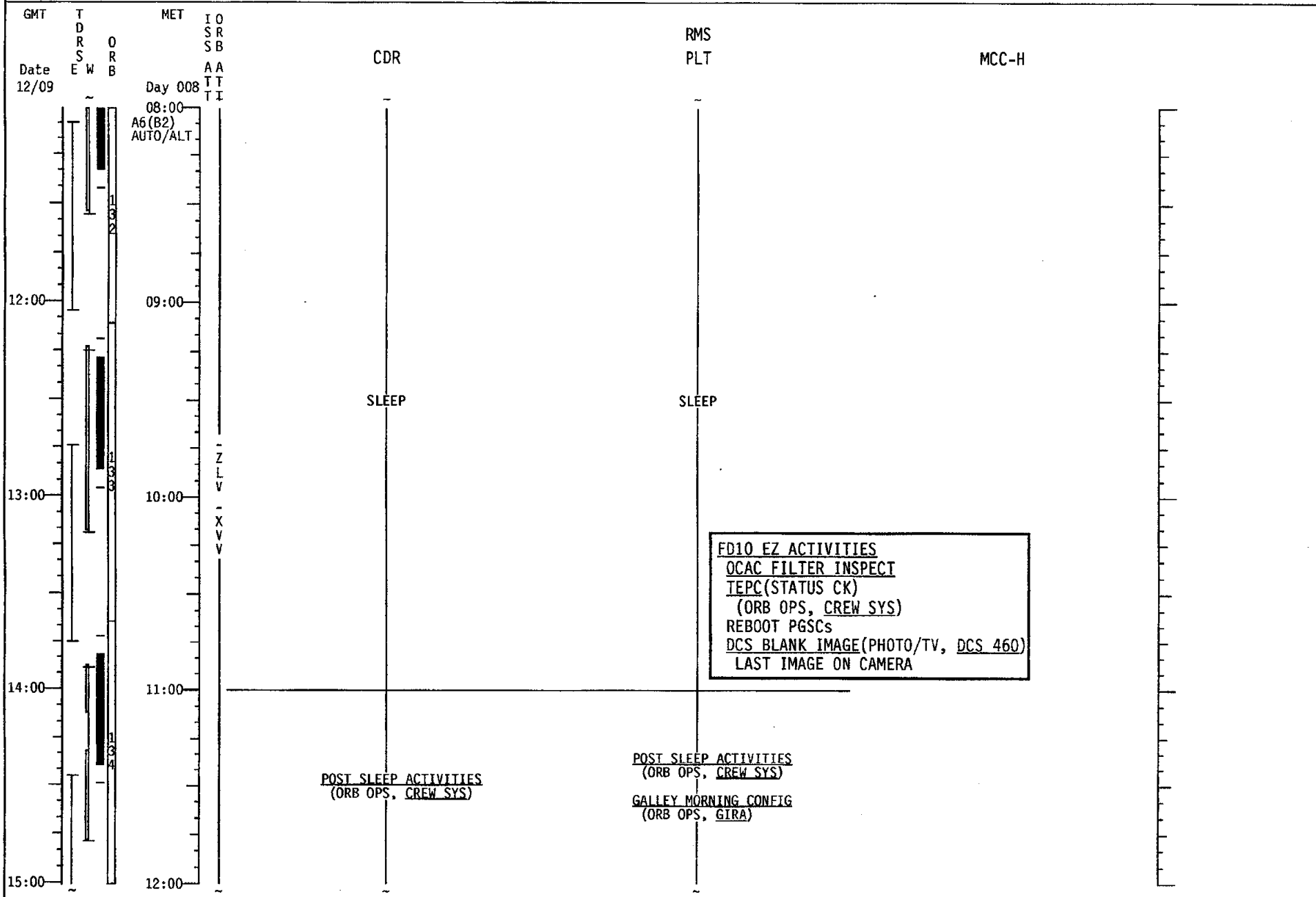
STS-97 (FD 09)



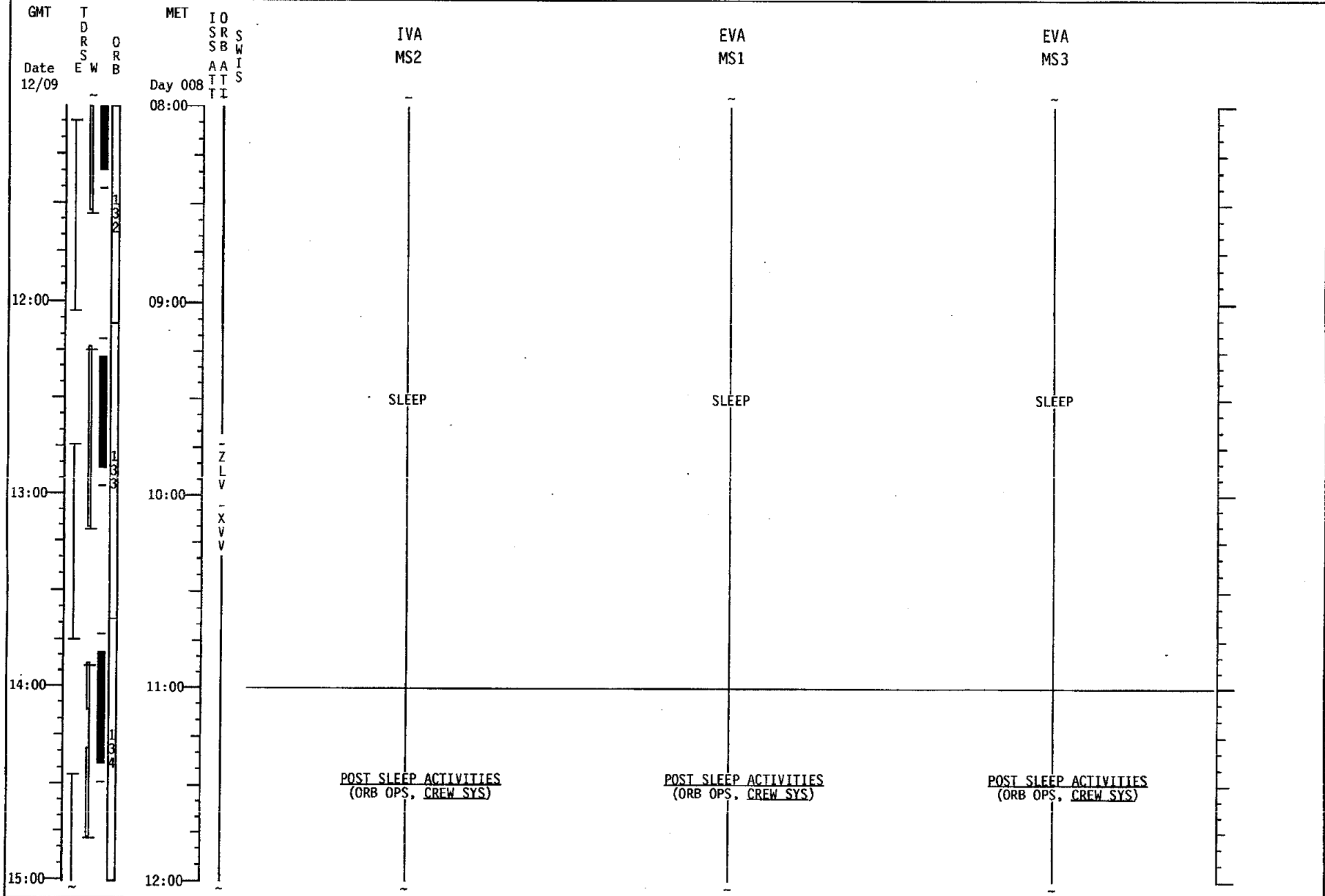
STS-97 (FD 09)



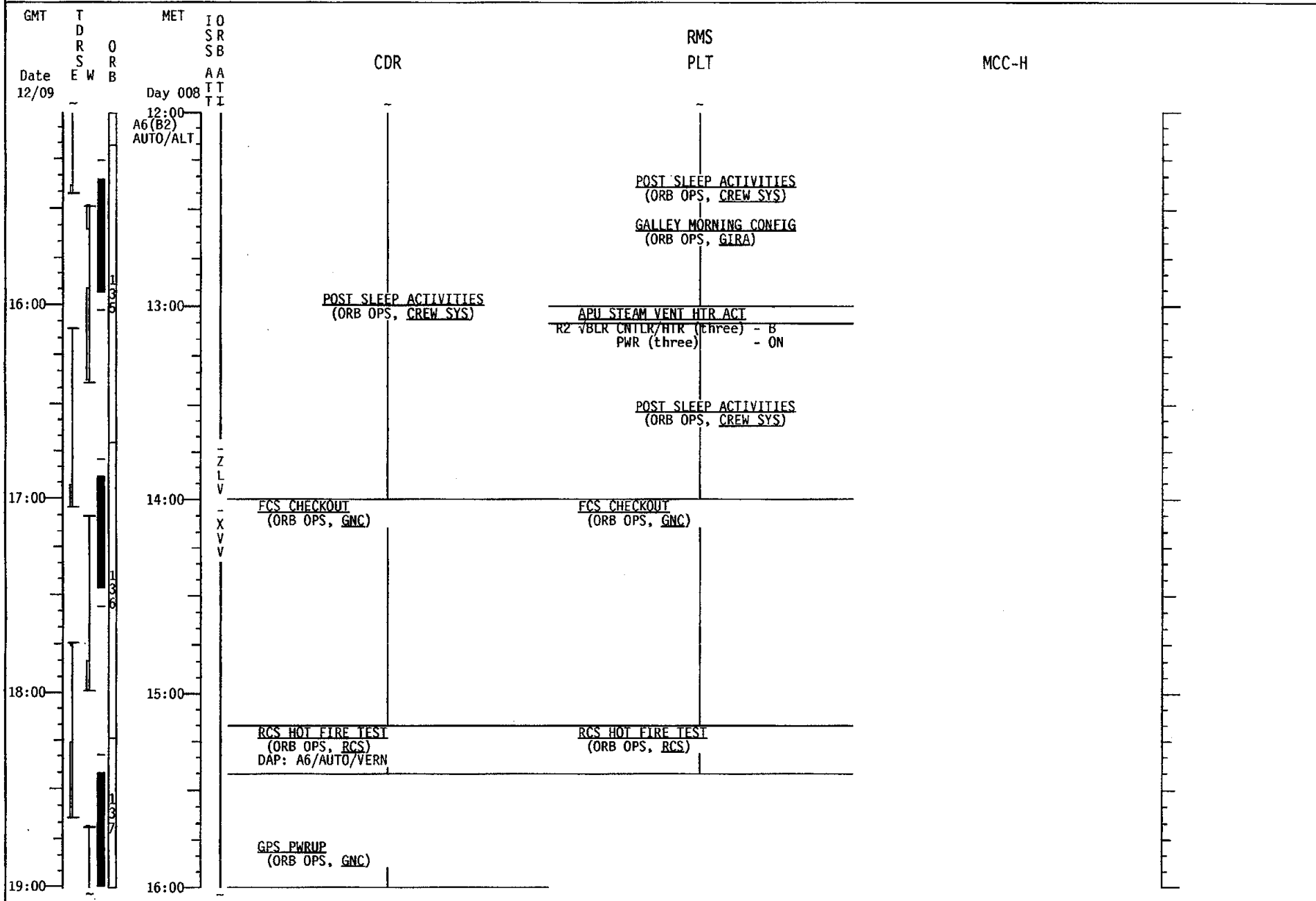
STS-97 (FD 09)



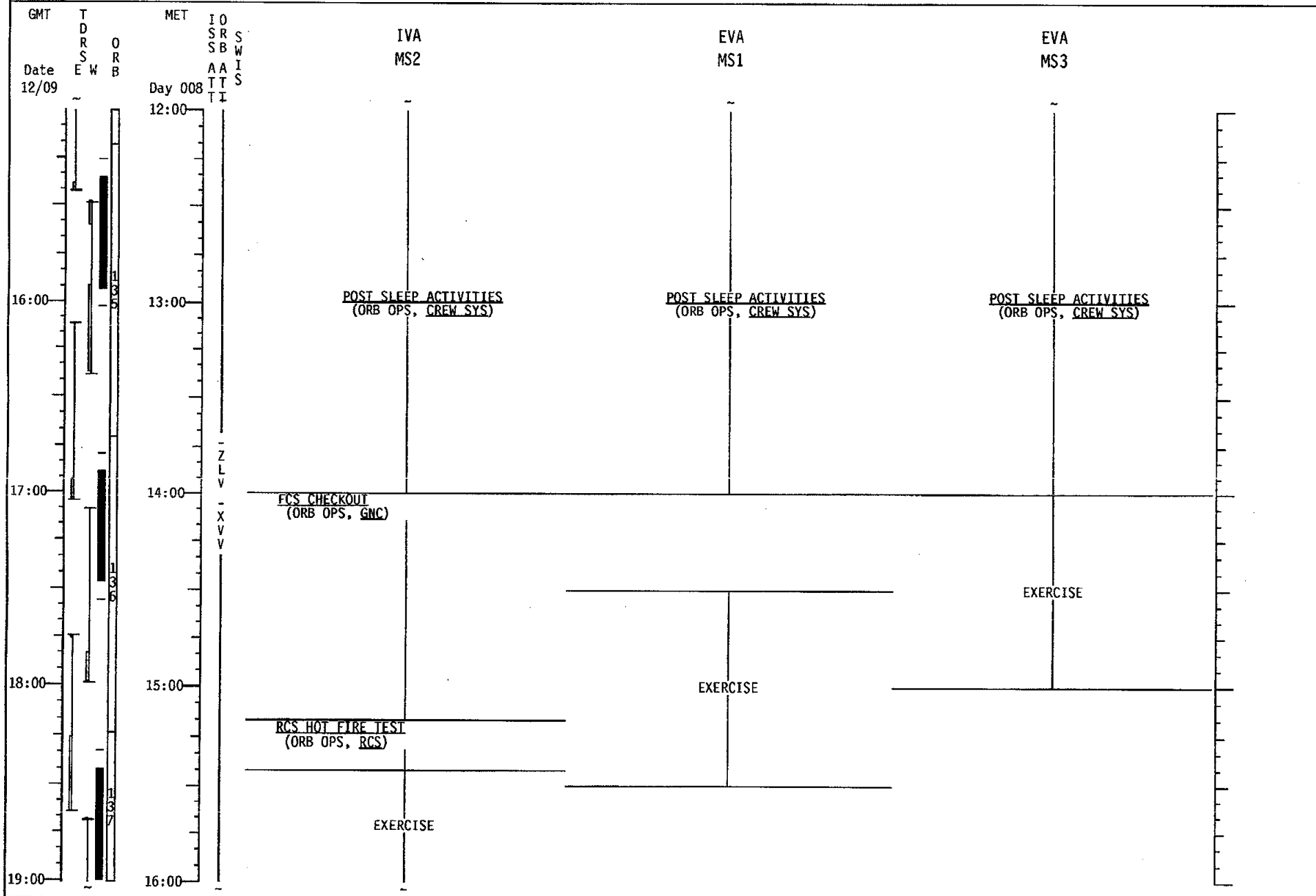
STS-97 (FD 09)



STS-97 (FD 10)



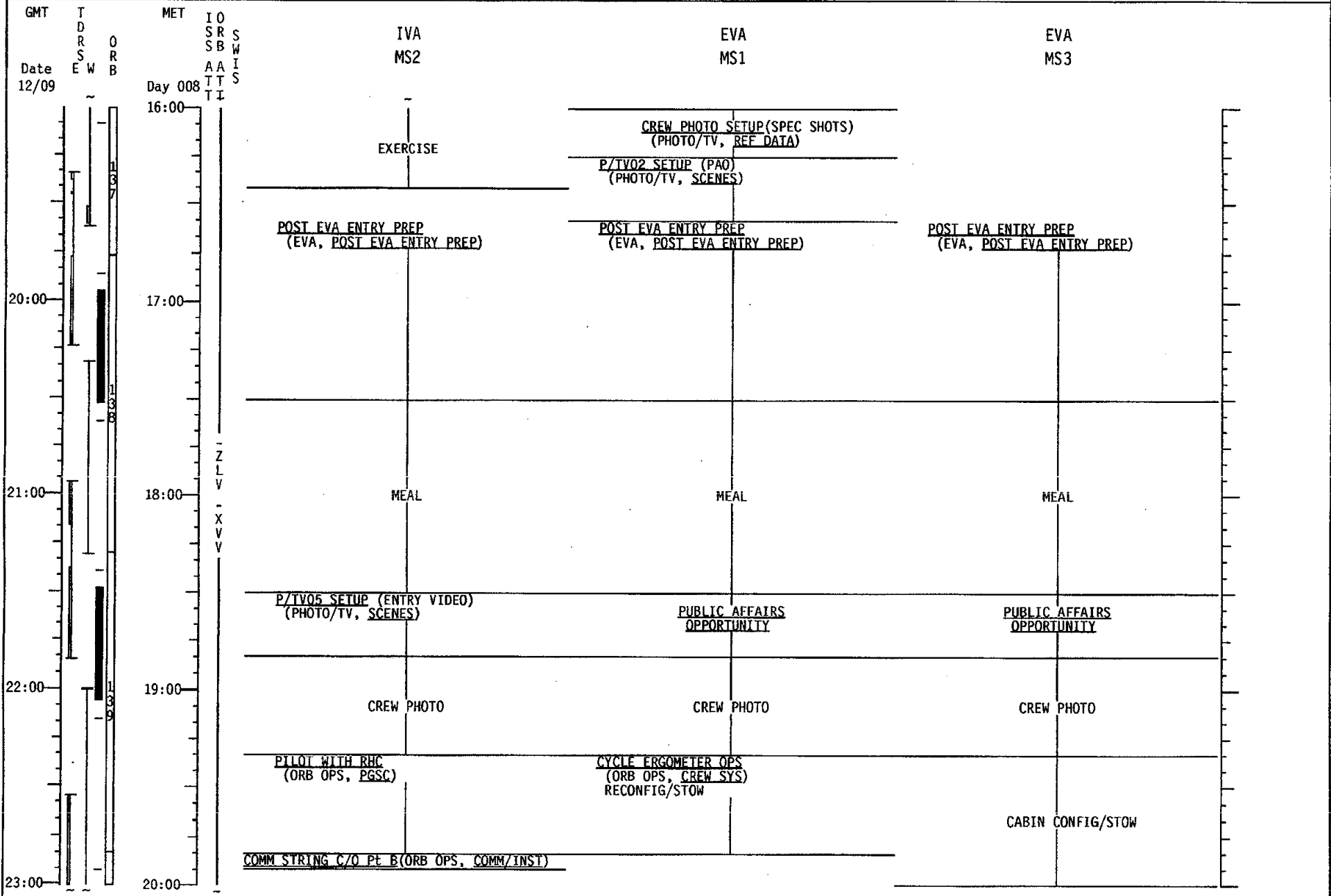
STS-97 (FD10)



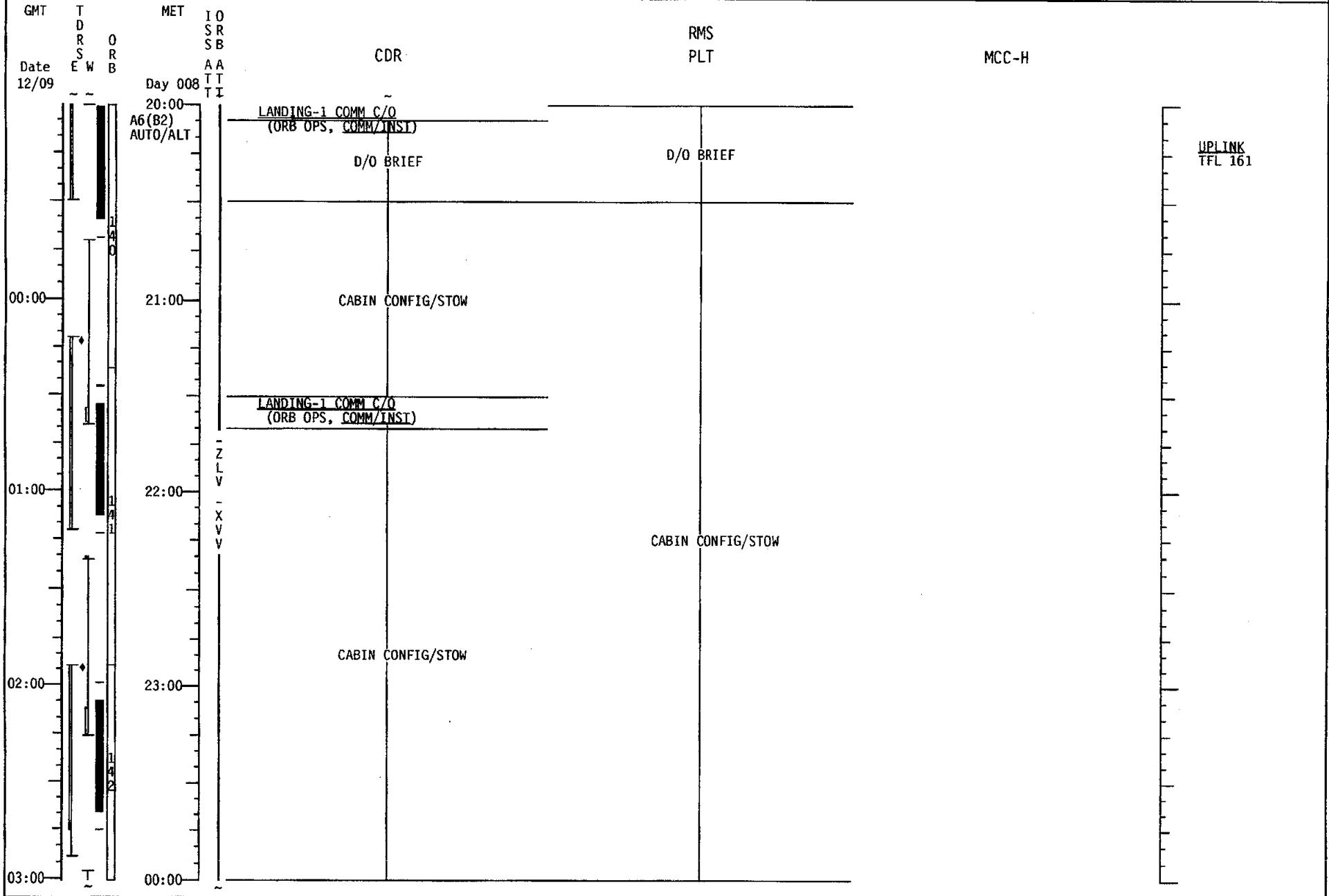
STS-97 (FD 10)

GMT	T D R S E W	MET	I O S R S B	CDR	RMS PLT	MCC-H
Date 12/09	ORBS	Day 008	A A T T T I			
16:00		A6 (B2) AUTO/ALT				
20:00				EXERCISE	EXERCISE	
21:00			Z L V	MEAL	MEAL	
22:00			X V V	<u>PUBLIC AFFAIRS OPPORTUNITY</u> Ku Avail 18:30-18:50		
				CREW PHOTO	CREW PHOTO	
				PILOT WITH RHC (ORB OPS, PGSC)	PILOT WITH RHC (ORB OPS, PGSC)	
23:00				<u>LANDING-1 COMM C/O</u> (ORB OPS, COMM/INST)		

STS-97 (FD10)



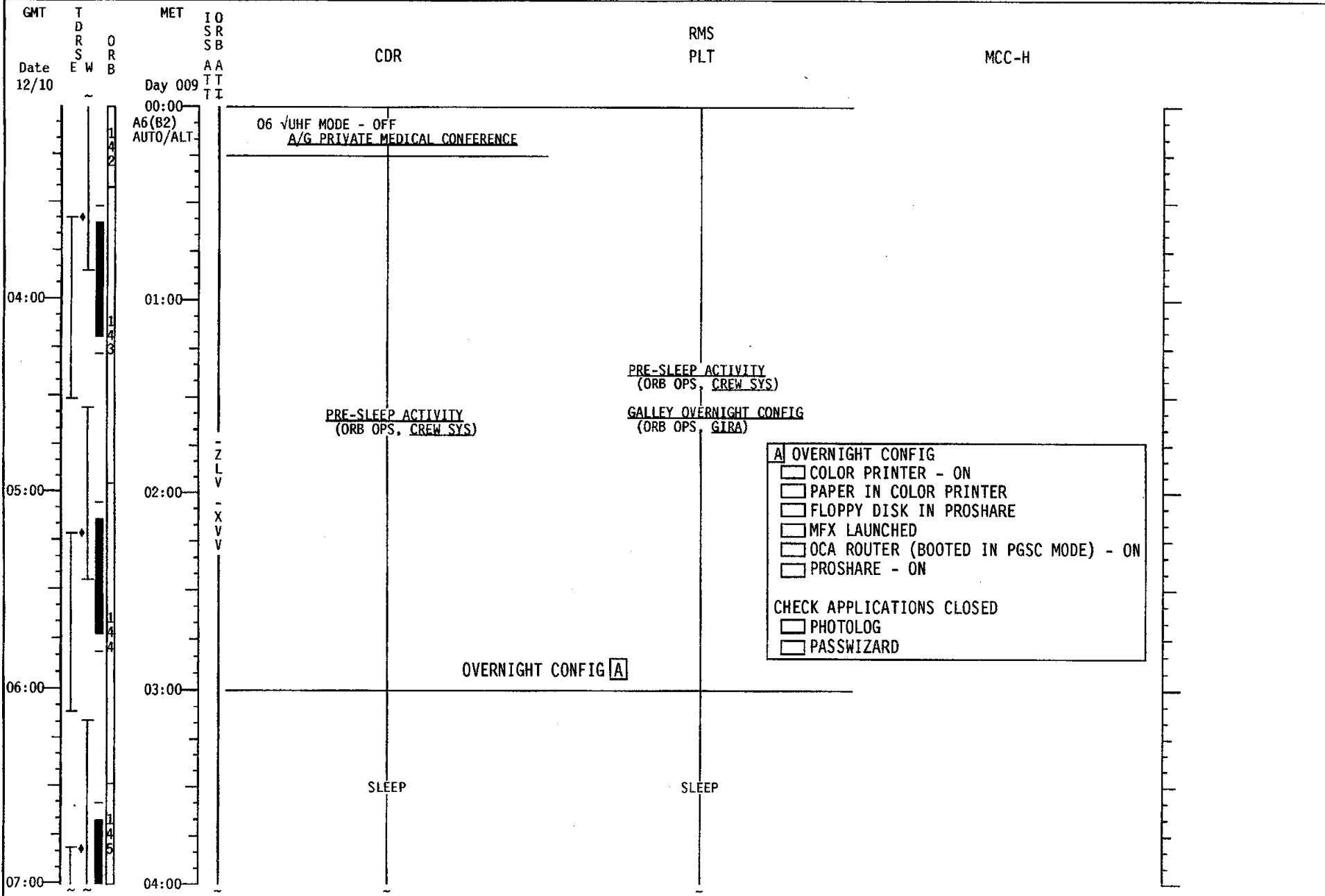
STS-97 (FD 10)



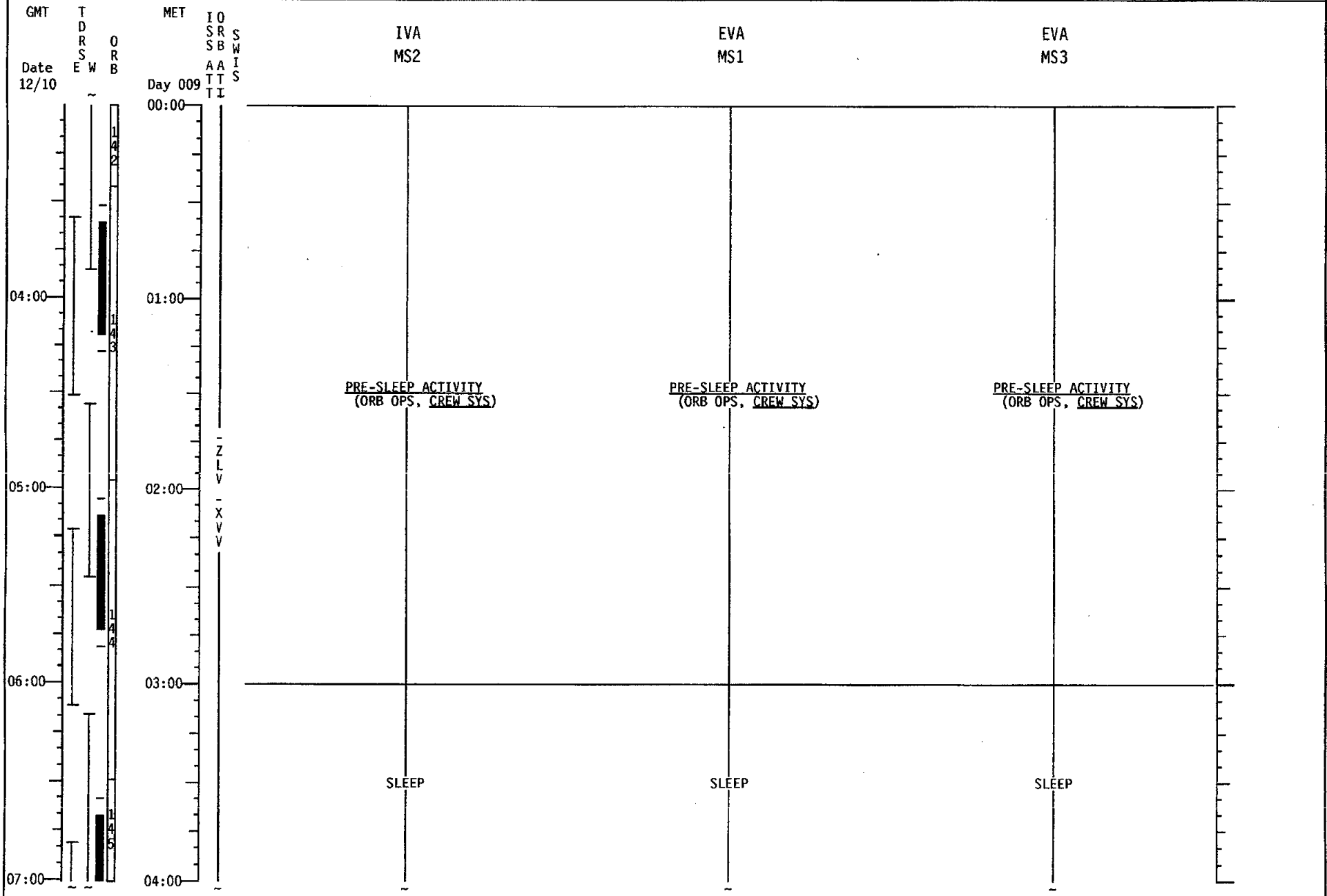
STS-97 (FD 10)

GMT	T D R S E W	MET	I O S R S B W I A A T T T I	IVA MS2	EVA MS1	EVA MS3
Date	12/09	Day 008				
	~ ~	20:00		D/O BRIEF	D/O BRIEF	D/O BRIEF
				FILTER CLEANING (IFM, SCHEDULED MAINTENANCE)	P/TV06 DEACT(SSV) (PHOTO/TV, SCENES)	
00:00		21:00				
01:00		22:00				
				CABIN CONFIG/STOW	CABIN CONFIG/STOW	CABIN CONFIG/STOW
02:00		23:00				
03:00		00:00		KU-BD ANT STOW (ORB OPS, COMM/INST)		

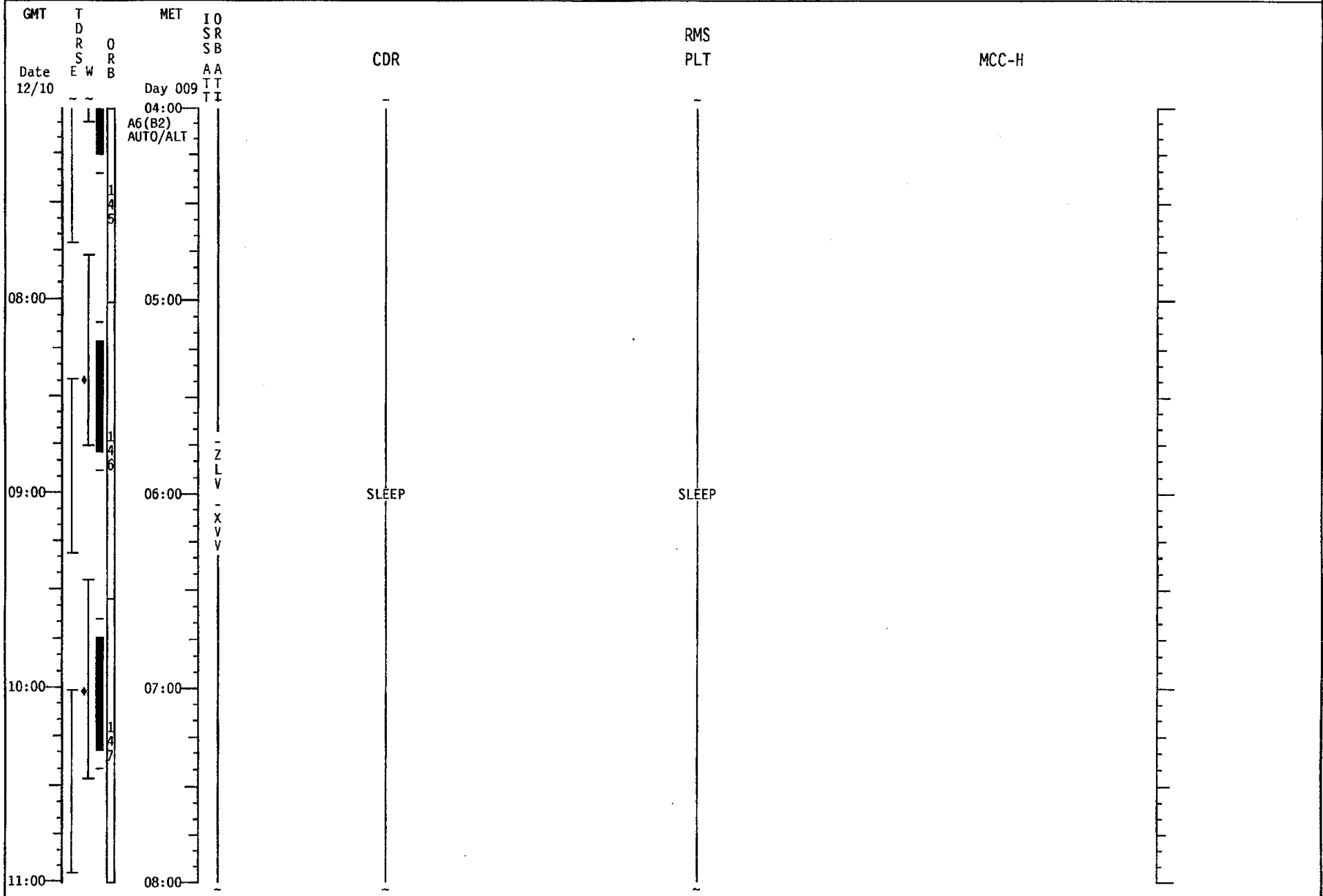
STS-97 (FD10)



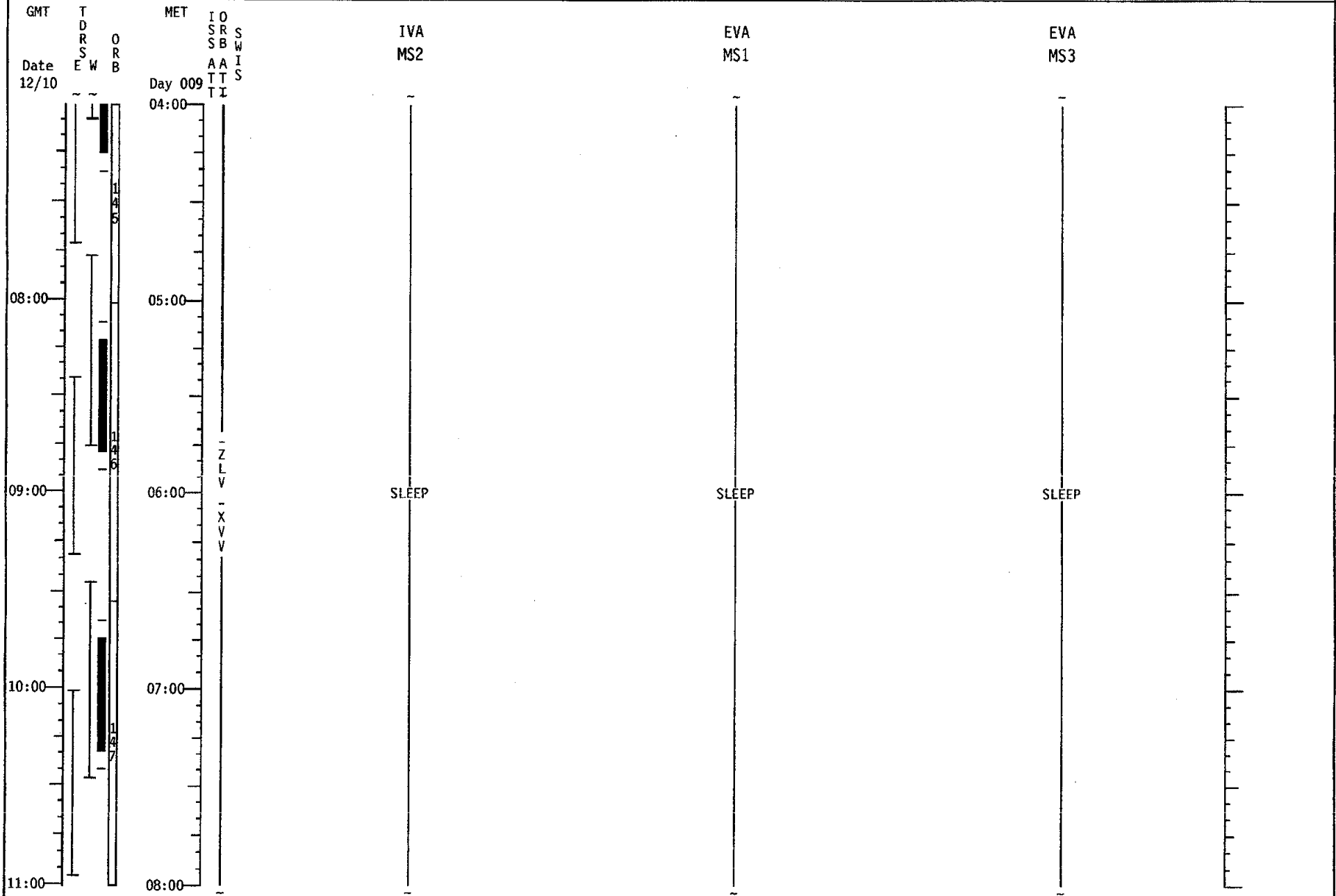
STS-97 (FD10)



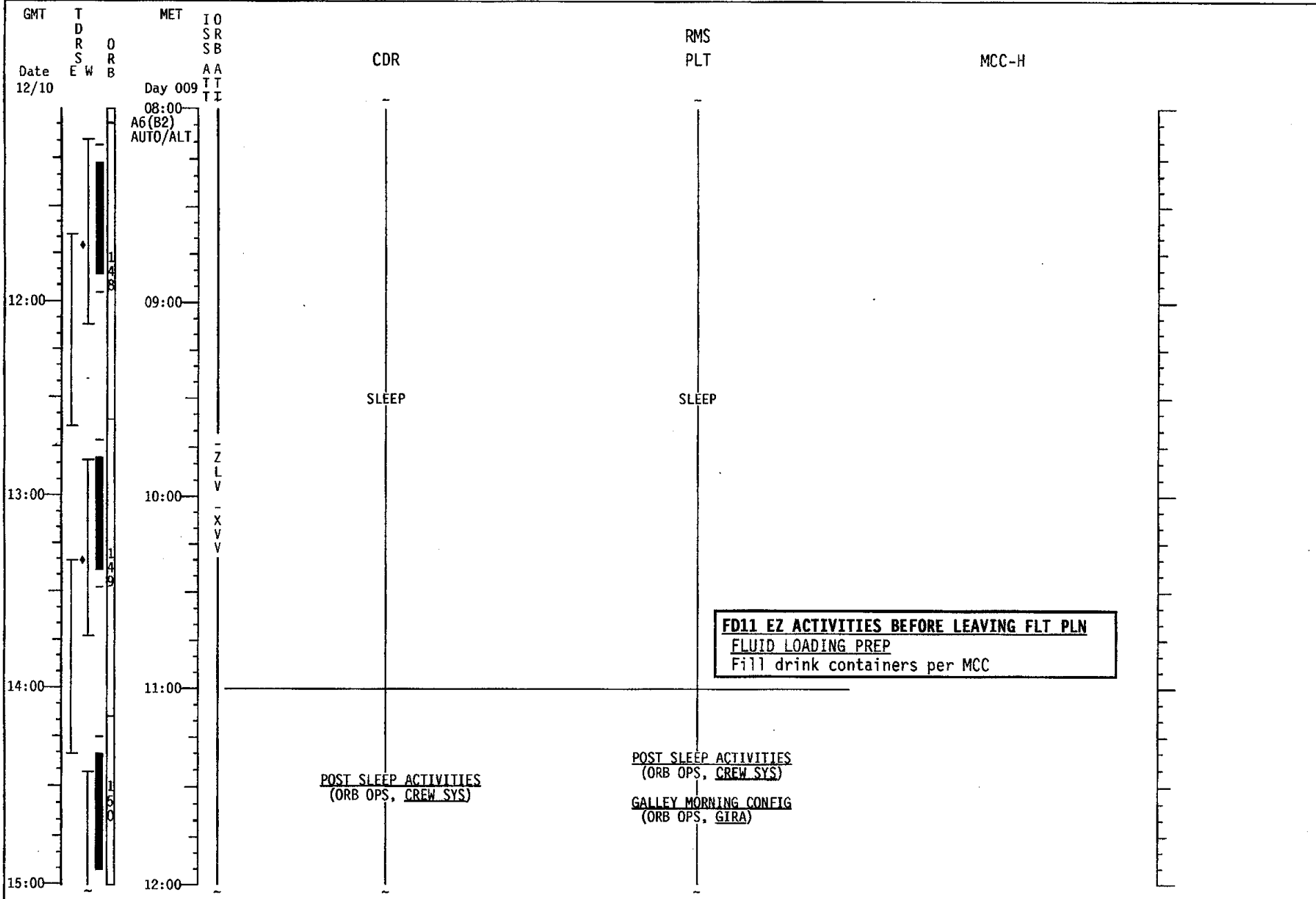
STS-97 (FD 10)



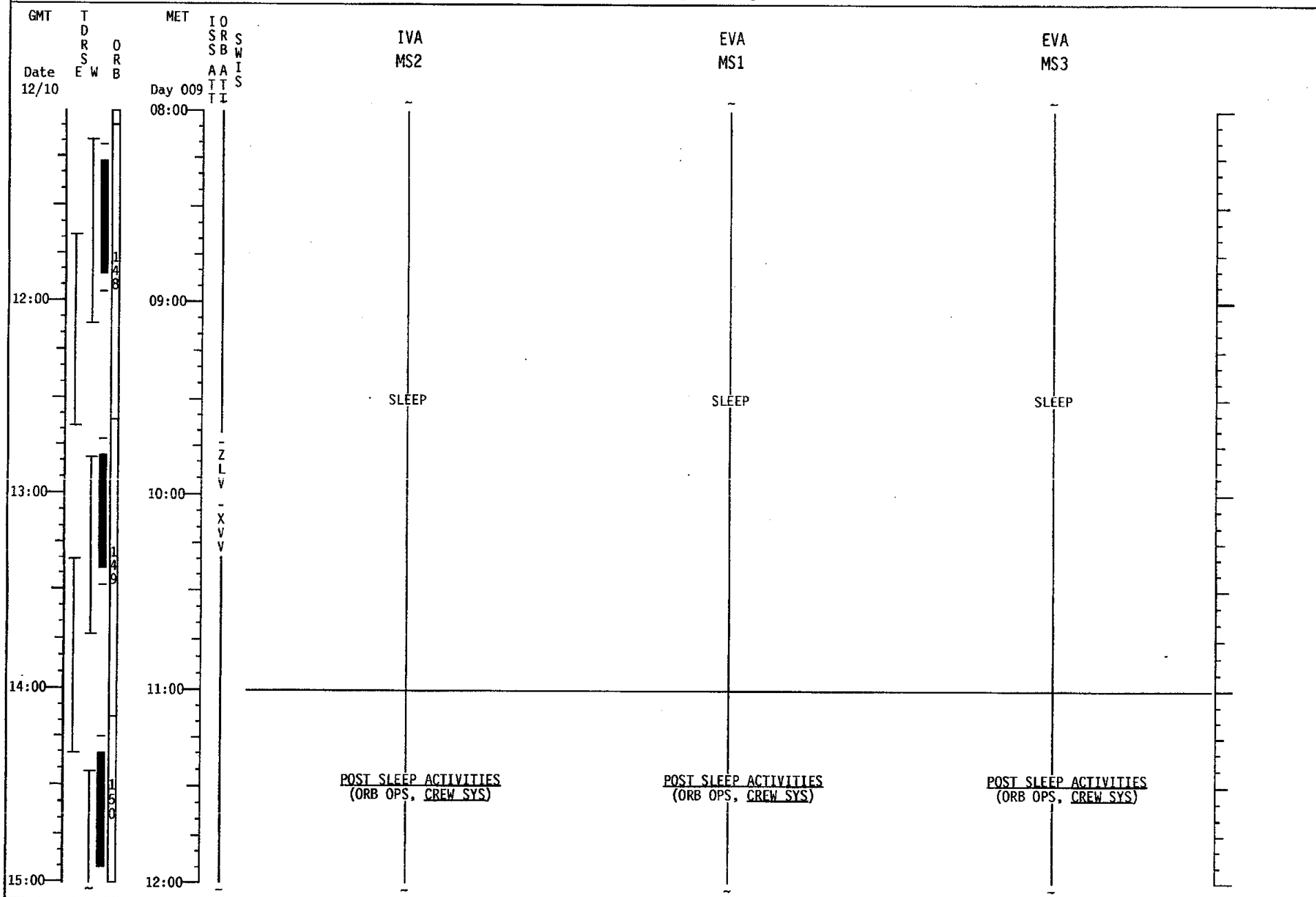
STS-97 (FD 10)



STS-97 (FD11)



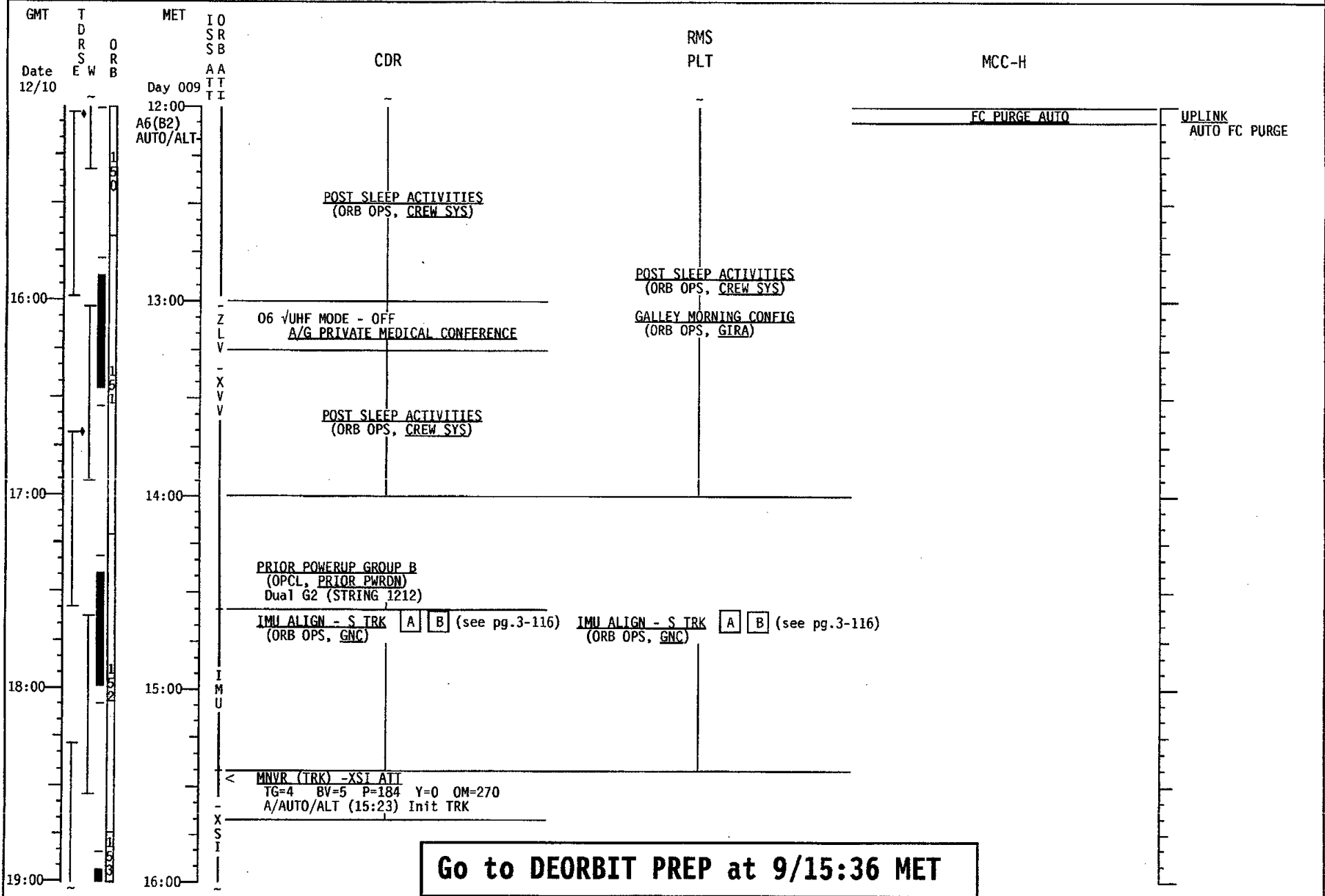
STS-97 (FD11)



A	IMU STAR ALIGN		
ID: -Y: 51, ATRIA MET (9/15:01 TO 9/15:45)			
-Z: 55, ALPHARD MET (9/14:32 TO 9/15:22)			
ANG DIFF: 83.5			
DUAL S TRKR ALIGNMENT		2nd ATTITUDE (SINGLE S TRKR) -Z: 51 -Y: 55	
R	53	R	336 146
P	42	P	24 34
Y	41	Y	34 55
REQD ID:			
-Y: ____, -Z: ____, ANG ERR ____, ____, ____, ____,			
ANG:	1	2	3
ΔX	()	()	()
ΔY	()	()	()
ΔZ	()	()	()
EXECUTION TIME: __/__:__:__ MET			

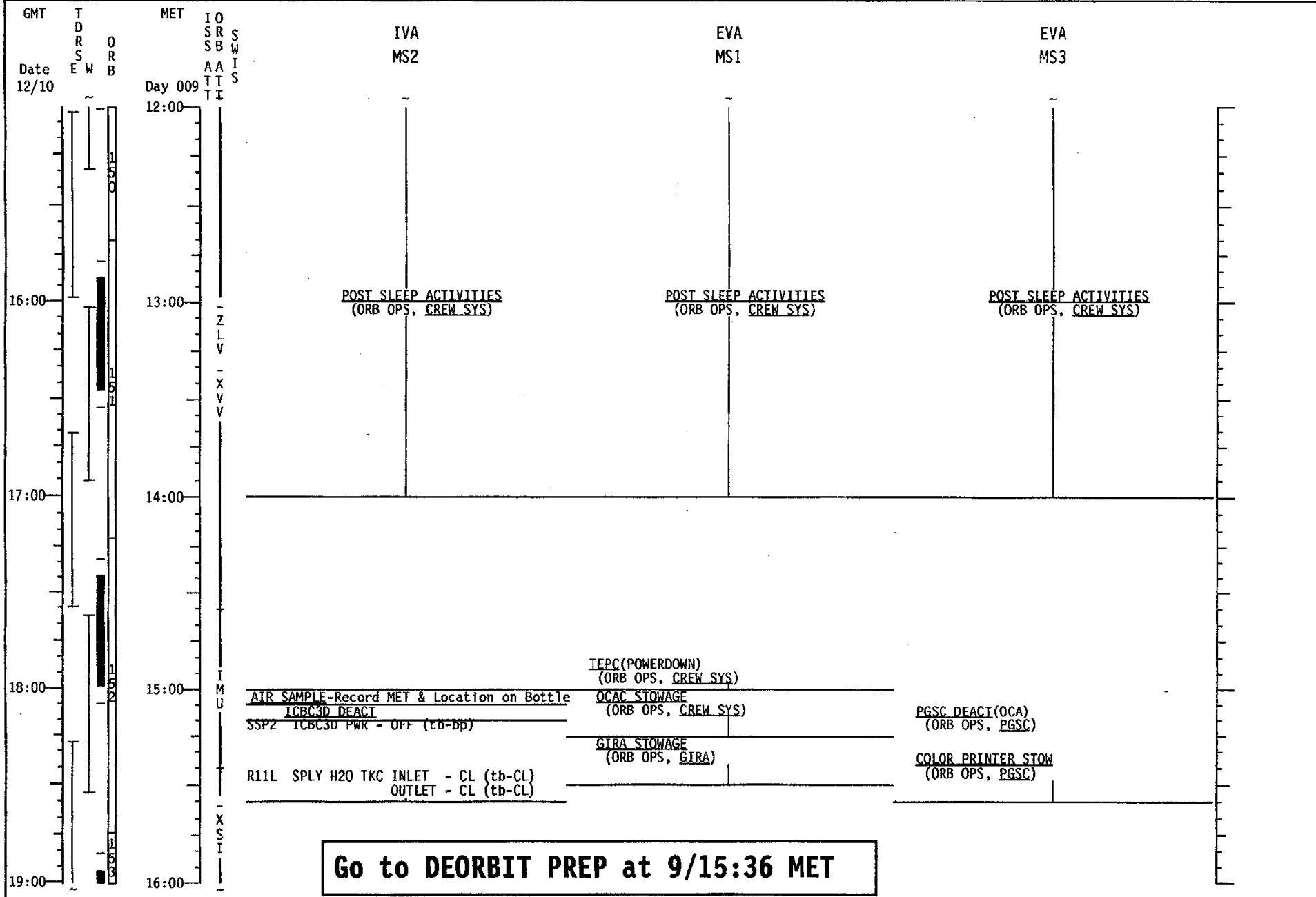
B	IMU STAR VERIFICATION		
ID: -Y: 17, ACRUX MET (9/14:48 TO 9/15:38)			
-Z: 20, ARCTURUS MET (9/14:35 TO 9/15:32)			
ANG DIFF: 89.8			
DUAL S TRKR ALIGNMENT		2nd ATTITUDE (SINGLE S TRKR) -Z: 17 -Y: 20	
R	289	R	195 358
P	184	P	194 205
Y	55	Y	69 48
REQD ID:			
-Y: ____, -Z: ____, ANG ERR ____, ____, ____, ____,			
ANG:	1	2	3
ΔX	()	()	()
ΔY	()	()	()
ΔZ	()	()	()
If any ΔX, ΔY, OR ΔZ > 0.1 Check MCC			
EXECUTION TIME: __/__:__:__ MET			

STS-97 (FD 11)



Go to DEORBIT PREP at 9/15:36 MET

STS-97 (FD 11)



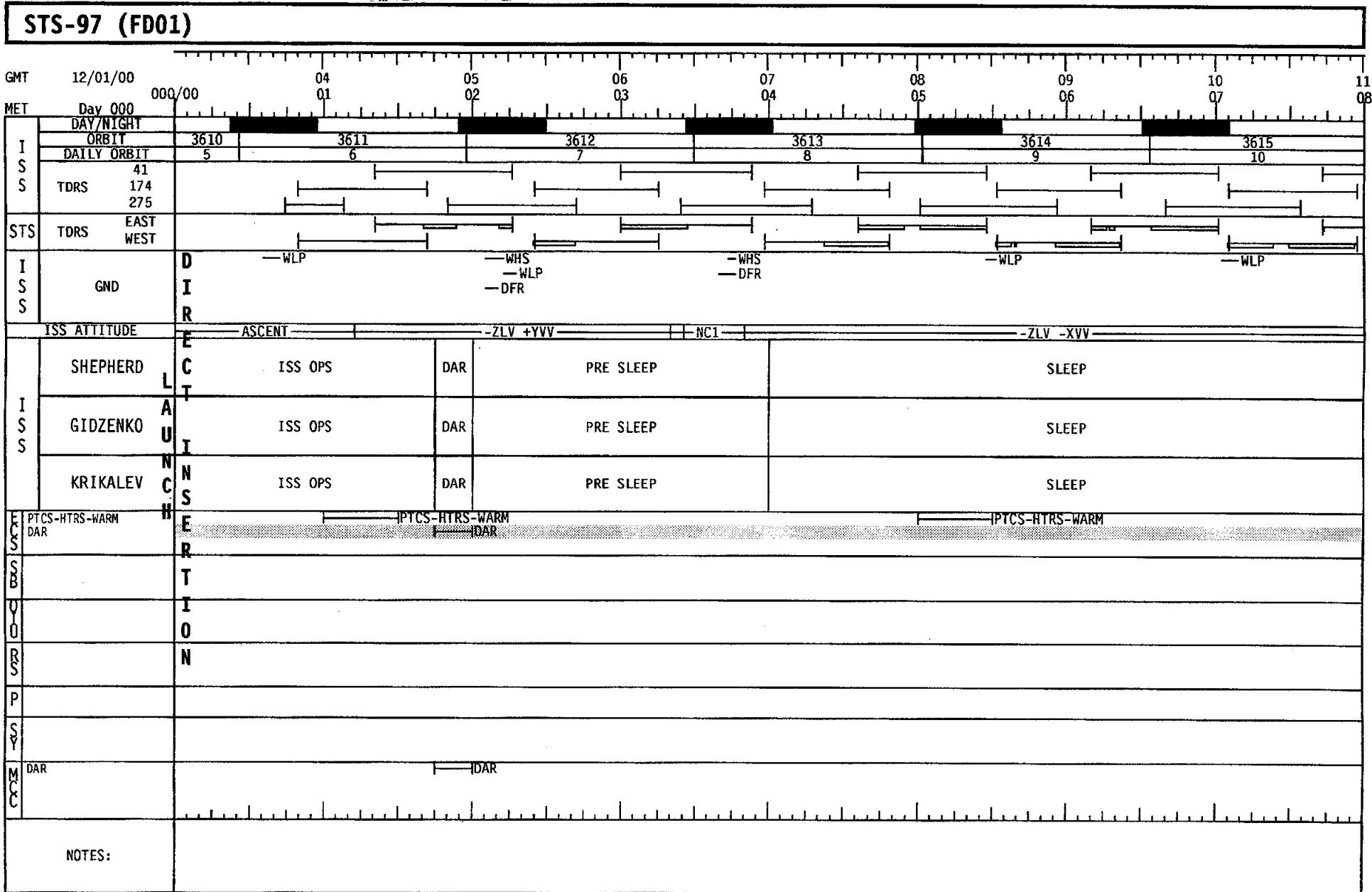
Go to DEORBIT PREP at 9/15:36 MET

SHORT TERM PLAN

|

SHORT TERM
PLAN

SHORT TERM PLAN



STS-97 (FD01)

GMT	12/01/00		04	05	06	07	08	09	10	11		
MET	000/00		01	02	03	04	05	06	07	08		
	Day 000											
STS	CDR	DIRECT LAUNCH SEQUENCE	⊗ -ZLV +YVV	POST INSERTION	IMU	PRE SLEEP-STS	OMS BURN	A-- UZX TLV OVV	▼ PMC - A/G ONLY	Δ	SLEEP-STS	
	PLT		▲ -ZLV +YVV	POST INSERTION		PRE SLEEP-STS	OMS BURN	GP RWR DBN		φ	SLEEP-STS	
	MS2		POST INSERTION	•	POST INSERTION	RIM M S I T	▽	◇			PRE SLEEP-STS	SLEEP-STS
MS1	POST INSERTION		*	POST INSERTION	GIRA I N S T A L L					PRE SLEEP-STS	SLEEP-STS	
MS3	POST INSERTION		*	POST INSERTION	OCA S E T U P	⊕				PRE SLEEP-STS		
MCCSUM				PTCS-HTRS-WARM							PTCS-HTRS-WARM	
ISS	DAY/NIGHT											
	ORBIT		3610	3611	3612	3613	3614	3615				
	DAILY ORBIT		5	6	7	8	9	10				
	TDRS		41 174 275									
STS	GND		—WLP	—WHS —WLP —DFR	—WHS —DFR	—WLP	—WLP			—WLP		
	TDRS EAST WEST SPARE											
	ISS ATTITUDE	—ASCENT	—ZLV +YVV	NC1						—ZLV -XVV		
NOTES:		⊗POST INSERTION ▲POST INSERTION	•PLBD OP-PI TT *PLBD OP-PI TT ▲PLBD OP-PI TT	VPCS 1(2) CONFIG OP/TV07 ICBC 3D ACT ⊗COLOR PRINTER S/U		▼PRE SLEEP-STS φAPU HTR RECONFIG ΔPRE SLEEP-STS						

STS-97 (FD01)	STS-97 (FD02)
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GMT 12/01/00
 MET Day 000

	DAY/NIGHT	[Day/Night Cycle]																	
I S S	ORBIT	3616				3617				3618				3619				3620	3621
	DAILY ORBIT	11				12				13				14				15	16
S S	TDRS 41	[Timeline]																	
	TDRS 174 275	[Timeline]																	
S T S	TDRS EAST	[Timeline]																	
	TDRS WEST	[Timeline]																	
I S S	GND	-WHS -WLP -DFR -PPK -WHS -USK -DFR -PPK -USK -DFR -PPK -ULD -USK -DJS -KLP -PPK -ULD -USK																	

ISS ATTITUDE: -ZLV -XVV [Timeline] NC2

I S S	SHEPHERD	SLEEP	POST SLEEP	♦	DPC	EXERCISE SCI1	
	GIDZENKO	SLEEP	POST SLEEP	⊙	DPC	♥	
	KRIKALEV	SLEEP	POST SLEEP	Δ	DPC		

PTCS-HTRS-WARM [Timeline] IPTCS-HTRS-WARM [Timeline] EXPKG-U/L [Timeline] PTCS-HTRS-WARM [Timeline] DPC [Timeline]

S B															
C O															
S T R															
P															
S - S															
M C C	DPC	[Timeline]													

NOTES: ♦ CREW TAGUP ♥ P/TV-ISS-S/U
 ⊙ CREW TAGUP
 Δ CREW TAGUP

STS-97 (FD01)	STS-97 (FD02)
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GMT 12/01/00 08 12 13 14 15 16 17 18 19
 MET Day 000 09 10 11 12 13 14 15 16

S T S	CDR	SLEEP-STS	POST SLEEP-STS	▲	φ	OMS BURN	-ZLV -XVV	
	PLT	SLEEP-STS				•	OMS BURN	RMS C/O
I V A	MS2	SLEEP-STS	POST SLEEP-STS	▽	POST SLEEP-STS	FLTR CLN - INSPECT	R P M W S R U P RMS C/O	
	MS1	SLEEP-STS				TEPC ACT	EXERCISE-STS	
E V A	MS3						PGSC NETWORK S/U*	S S W E I T S U P

M P TCS-HTRS-WARM | P TCS-HTRS-WARM | P TCS-HTRS-WARM

I S S	DAY/NIGHT	[Shaded bars indicating day/night cycle]											
	ORBIT	3616	3617	3618	3619	3620	3621						
	DAILY ORBIT	11	12	13	14	15	1						
	TDRS	41	174	275									
	GND	-WHS -WLP -DFR	-PPK -WHS -USK -DFR	-PPK -USK -DFR	-PPK -ULD -USK	-DJS -KLP -PPK -HUSK							

S T S	TDRS	EAST	WEST	SPARE											
	ORBIT	6	7	8	9	10	11								
ISS ATTITUDE		-ZLV -XVV													
NOTES:		▲ERGOMETER SETUP ∇RMS HTR φELEVON PARK •ELEVON PARK * W/LOCKER STOW UPDATE													

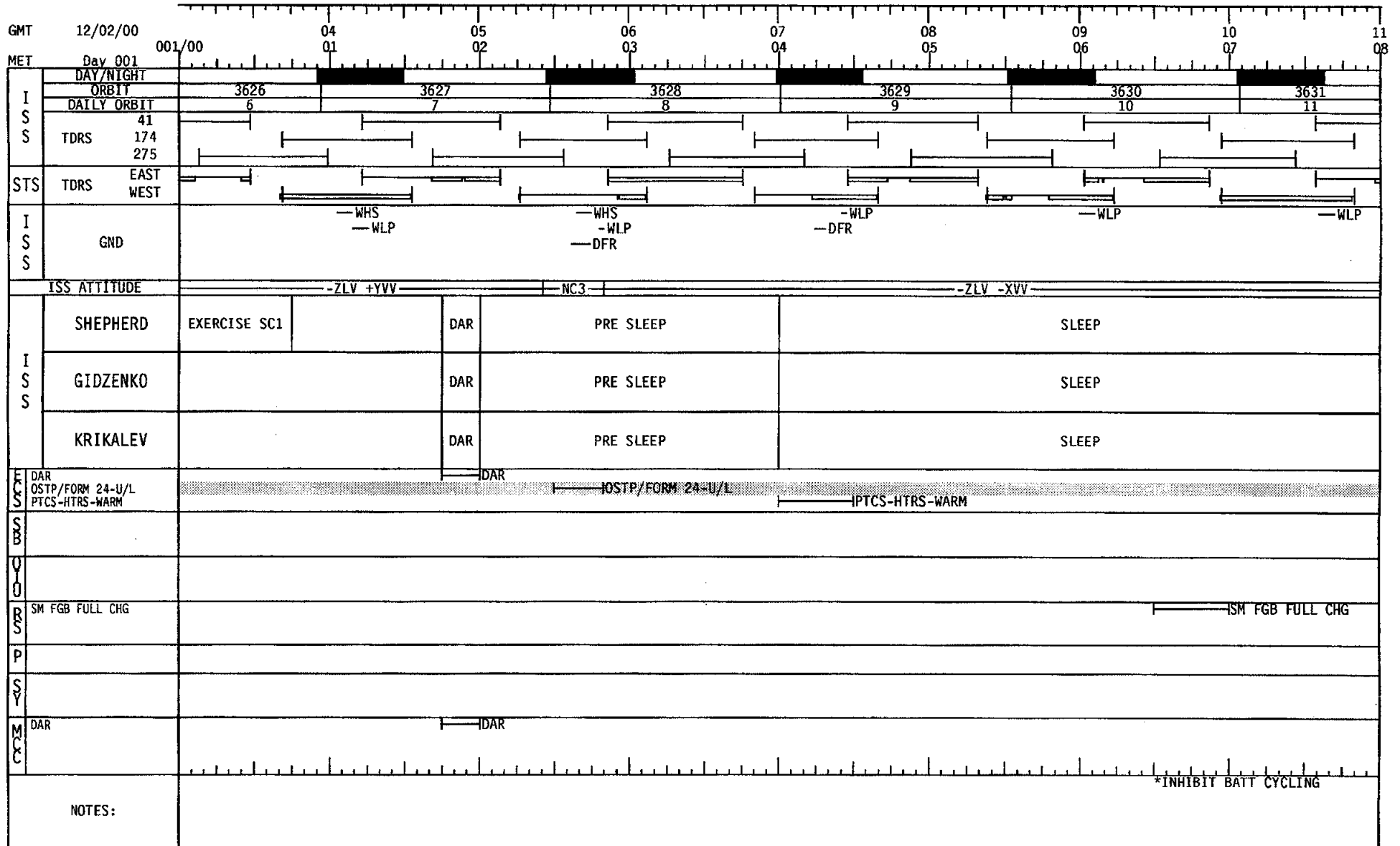
STS-97 (FD02)

GMT	12/01/00	20	21	22	23	12/02	01	02	03		
MET	Day 000	16	17	18	19	20	21	22	23	001/00	
ISS	DAY/NIGHT										
	ORBIT	3621		3622		3623		3624		3625	
	DAILY ORBIT	1		2		3		4		5	
STS	TDRS	41		174		275		41		174	
	TDRS EAST	1		2		3		4		5	
	TDRS WEST	1		2		3		4		5	
ISS	GND	—DJS —KLP —ULD —USK		—DJS —KLP —SHK —ULD —USK		—DJS —KLP —SHK —SPB —ULD		—DJS —SHK —SPB		—DJS —SHK —SPB	
	ISS ATTITUDE	—ZLV -XVV		NPC		—ZLV +YVV					
	SHEPHERD	◇			%PROGRESS DEPARTS			MEAL			*
ISS	GIDZENKO	*	EXERCISE SC2		%PROGRESS DEPARTS			MEAL	EXERCISE SC2		
	KRIKALEV	⊕	EXERCISE SC3		%PROGRESS DEPARTS			MEAL	EXERCISE SC3		
FKS	PTCS-HTRS-WARM			IPTCS-HTRS-WARM				IPTCS-HTRS-WARM			
	SSC-OCA MAIL-SYNC					ISSC-OCA MAIL-SYNC					
SB											
UD											
RS											
P											
SY											
MXC											
NOTES:	◇ISS-PAO-EVENT *ISS-PAO-EVENT ⊕ISS-PAO-EVENT										*EXERCISE

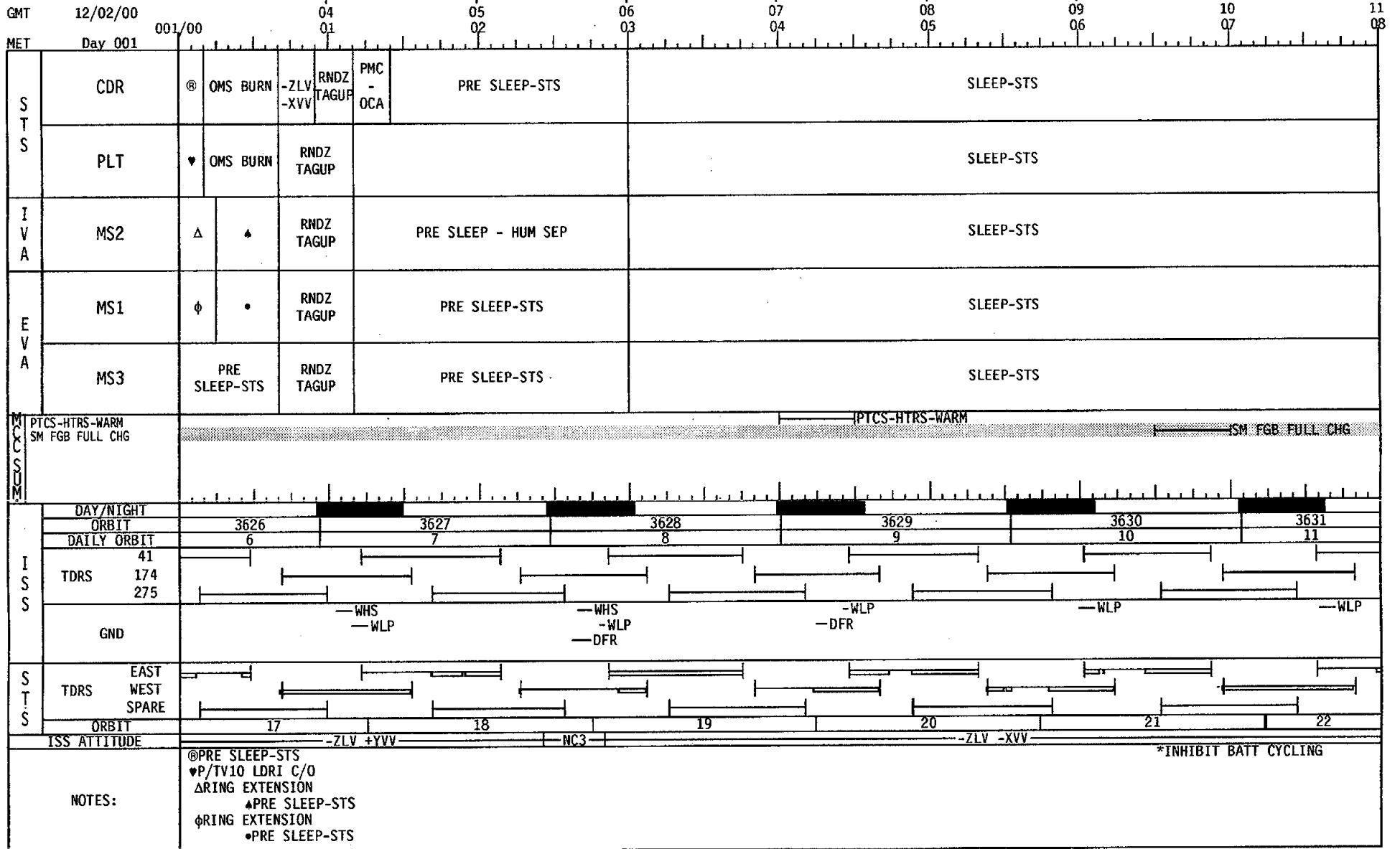
STS-97 (FD02)

GMT		12/01/00			20			21			22			23			12/02			01			02			03							
MET		Day 000			16			17			18			19			20			21			22			23			001/00				
S T S	CDR	EXERCISE-STS			AC P/C O U	⊕	RNDZ PGSC S/U			MEAL-STS			MULTI AXIS RCS BURN			-ZLV +YVV	WSTE H2O DUMP INIT	I M U	RNDZ TOOLS C/O			♥	I P O R E P	10.2 DEPRESS			Δ	P/TV19 S/U C/L CMR			POST SLEEP-STS		
	PLT	RMS C/O	P/TV01 PLB SURVEY			WATER FILL SETUP			MEAL-STS			WFT AIE TLR ELM R	MULTI AXIS RCS BURN			♣	OP SW VR SUP	OSVS C/O			⊙	RMS PWRDN	EXERCISE-STS			WATER FILL INIT			•	▽			
I V A	MS2	RMS C/O	P/TV01 PLB SURVEY			P/TV06 S/U SSV	EMU 1,3 C/O			MEAL-STS			OP SW VR SUP	OSVS C/O			⊙	RMS PWRDN	*	P/TV18 WVS C/O			EXERCISE-STS										
E V A	MS1	♣	A/L PREP			⊕	EMU 1,3 C/O			MEAL-STS			EMU SWAP (3 FOR 2)			EMU 2 C/O			SAFER C/O			P/TV18 WVS C/O			EVA#1 TOOL CONFIG			WFT AIE TLR ELM R					
	MS3	SS WE IT SUP	A/L PREP			♣	EXERCISE-STS			EMU 1,3 C/O			MEAL-STS			EMU SWAP (3 FOR 2)			EMU 2 C/O			SAFER C/O			P/TV18 EVA CMR S/U			EVA#1 TOOL CONFIG					
I S S	PTCS-HTRS-WARM		IPTCS-HTRS-WARM																		IPTCS-HTRS-WARM												
	DAY/NIGHT	[Bar chart showing day/night cycles]																															
I S S	ORBIT	[Bar chart showing orbit segments]																															
	DAILY ORBIT	[Bar chart showing daily orbit segments]																															
	TDRS	41	[Bar chart showing TDRS 41]																														
	TDRS	174	[Bar chart showing TDRS 174]																														
	TDRS	275	[Bar chart showing TDRS 275]																														
S T S	GND	[Bar chart showing ground activities: -DJS, -KLP, -ULD, -USK, -SHK, -SPB, -WLP]																															
	TDRS EAST WEST SPARE	[Bar chart showing TDRS East West Spare]																															
I S S	ORBIT	[Bar chart showing ISS orbit segments]																															
	ISS ATTITUDE	[Bar chart showing ISS attitude segments]																															
N O T E S	-ZLV -XVV																																
	♣EXERCISE-STS *SSV ⓄIU ACT & C/O ⓄP/TV01 PLB SURVEY ⓄP/TV01 PLB SURVEY ♣P/TV01 PLB SURVEY ♣FC PURGE-MANUAL MANUAL ♣WSTE H2O DUMP TERM ⓄOSVS PWRDN ⓄOSVS PWRDN *CRYO 02 SNSR CK ♣WSB CNFG VP/TV10 I Δ10.2 CONFIG																																

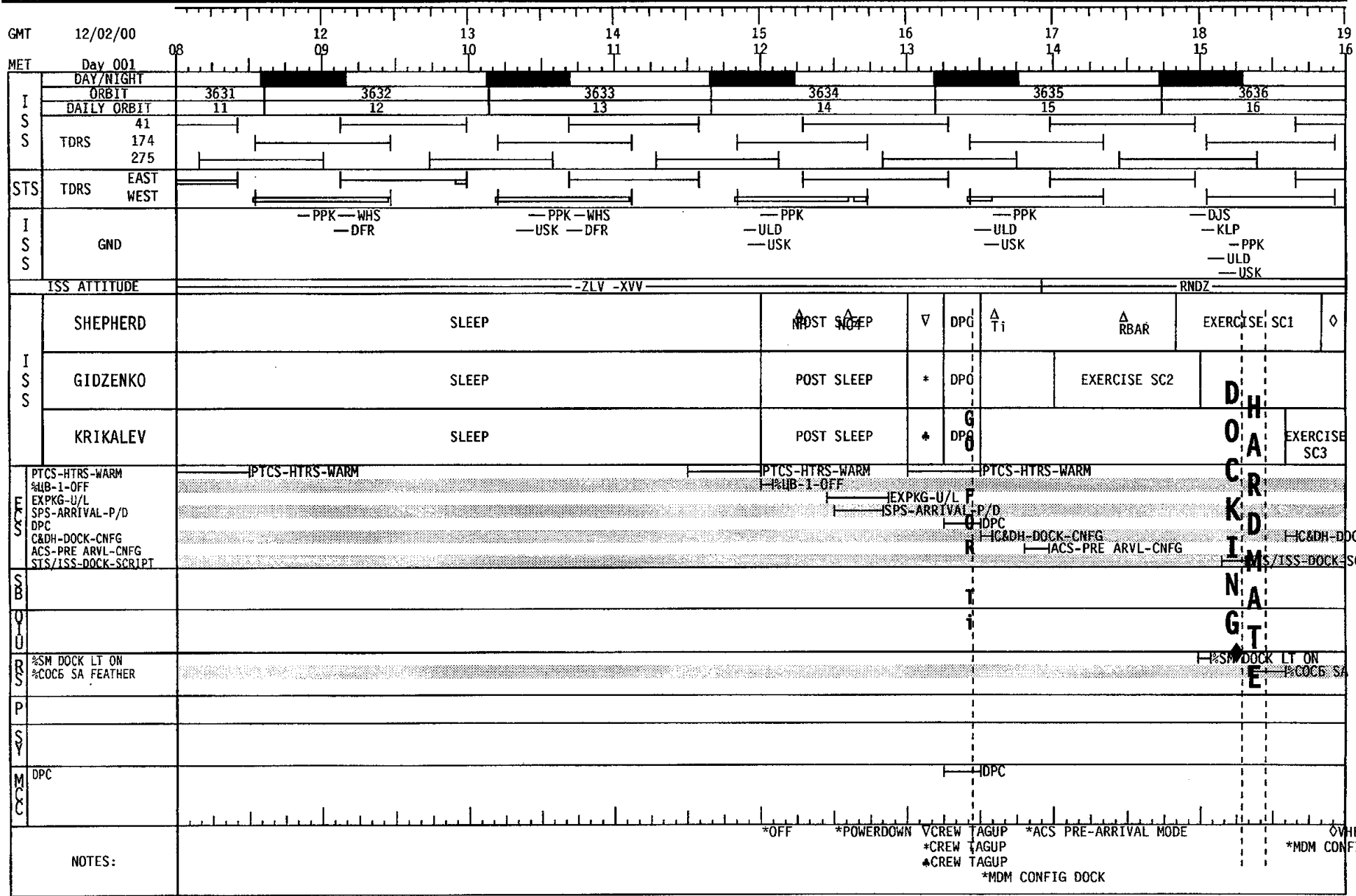
STS-97 (FD02)



STS-97 (FD02)



STS-97 (FD02) | **STS-97 (FD03)**



◆1/16:48

STS-97 (FD02)	STS-97 (FD03)
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GMT 12/02/00 08 12 09 13 10 14 11 15 12 16 13 17 14 18 15 19 16
 MET Day 001

STS	CDR	NH NC4 SLEEP-STS	T1 POST SLEEP-STS	RBAR POST SLEEP-STS	ISS RNDZ				APPROACH TIMELINE
	PLT	SLEEP-STS	POST SLEEP - GALLEY	ISS RNDZ					
IVA	MS2	SLEEP-STS	POST SLEEP-STS	TRANSFER PREP	VHF SETUP	WFT A I E T L R E L M R	P/TV20 S/U DOCK/UNDK	ISS RNDZ	
	MS1	SLEEP-STS	POST SLEEP-STS	AUX BATT CHG INIT	P/TV07 ICBC S/U	P/TV07 ICBC AUDIO	AUX BATT CHG TERM	P/TV20 OPS DOCK/UNDK	
EVA	MS3	SLEEP-STS	POST SLEEP-STS	RNDZ PGSC	EXERCISE-STS		ISS PCS UPDATE	ISS RNDZ	

MCSUM	PTCS-HTRS-WARM	PTCS-HTRS-WARM		PTCS-HTRS-WARM		PTCS-HTRS-WARM	
	%UB-1-OFF			%UB-1-OFF			
	SPS-ARRIVAL-P/D			SPS-ARRIVAL-P/D			
	C&DH-DOCK-CNFG			C&DH-DOCK-CNFG			
ACS-PRE ARVL-CNFG			ACS-PRE ARVL-CNFG				
%SM DOCK LT ON			%SM DOCK LT ON				
STS/ISS-DOCK-SCRIPT			STS/ISS-DOCK-SCRIPT				
%COC6 SA FEATHER			%COC6 SA FEATHER				

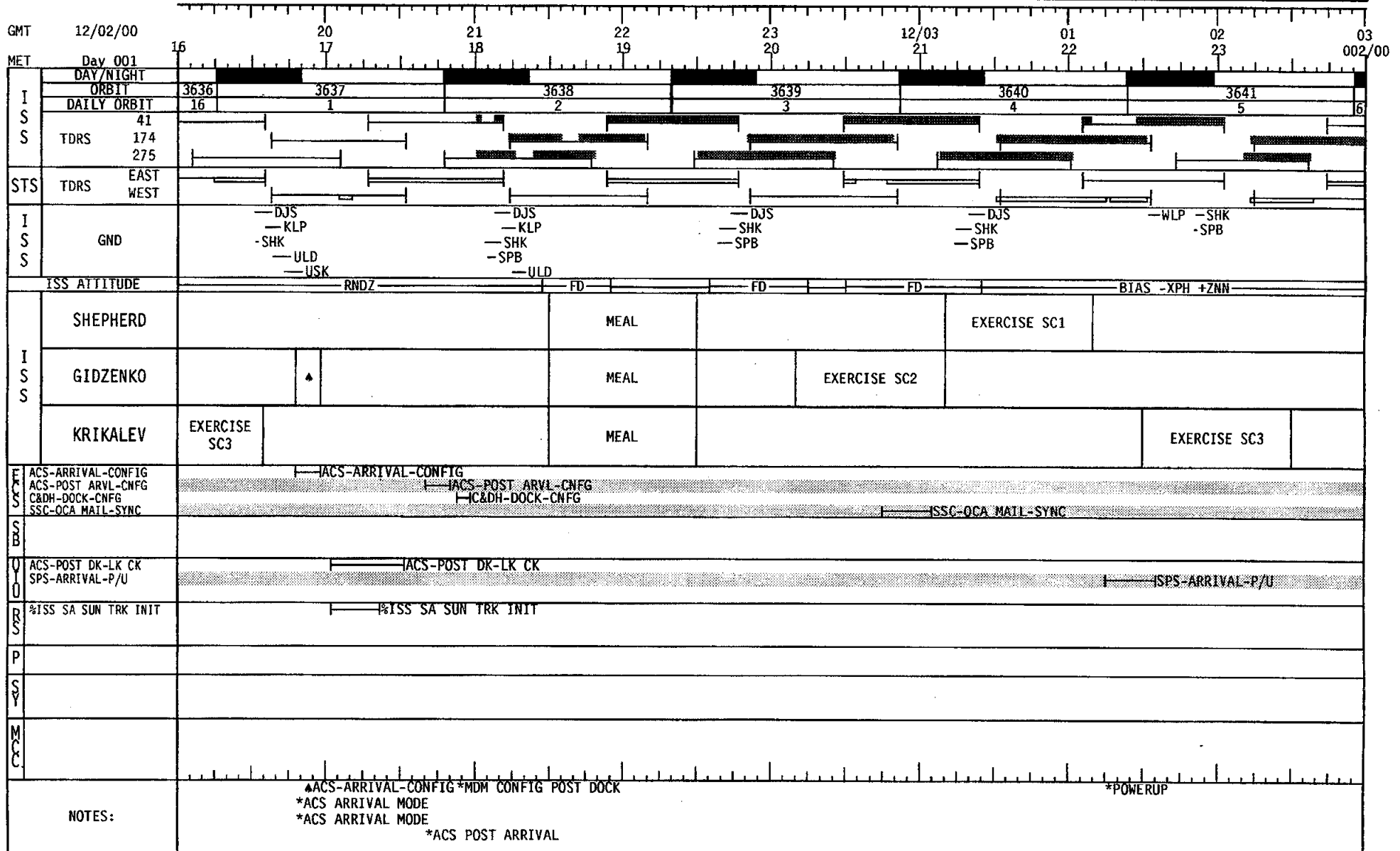
ISS	DAY/NIGHT	3631		3632		3633		3634		3635		3636	
	ORBIT	11		12		13		14		15		16	
	DAILY ORBIT	11		12		13		14		15		16	
	TDRS	41	174		275								
GND		-PPK -WHS -DFR		-PPK -WHS -USK -DFR		-PPK -ULD -USK		-PPK -ULD -USK		-DJS -KLP -PPK -HUSK			

STS	TDRS	EAST	WEST		SPARE								
	ORBIT	22		23		24		25		26		27	
ISS ATTITUDE				-ZLV -XVV						RNDZ			

NOTES:

@10.2 MAINTENANCE *POWERDOWN @EMU REMOVAL *MDM CONFIG AF
 ♦MIDDECK PREP ΔEMU REMOVAL
 ♦MIDDECK PREP *MDM CONFIG DOCK
 *CHG INIT *ACS PRE-ARRIVAL MODE
 ♦1/16:48 *OFF

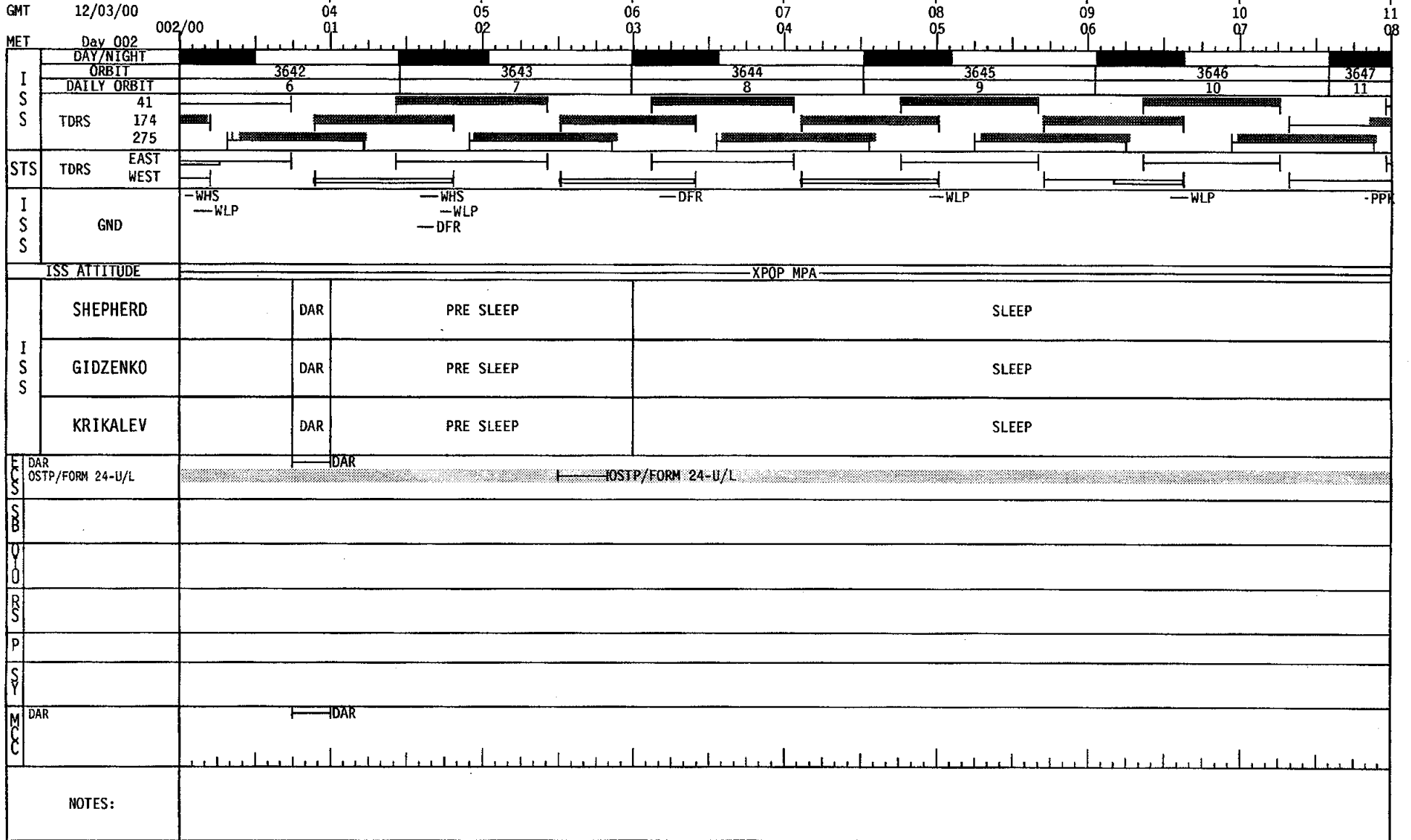
STS-97 (FD03)



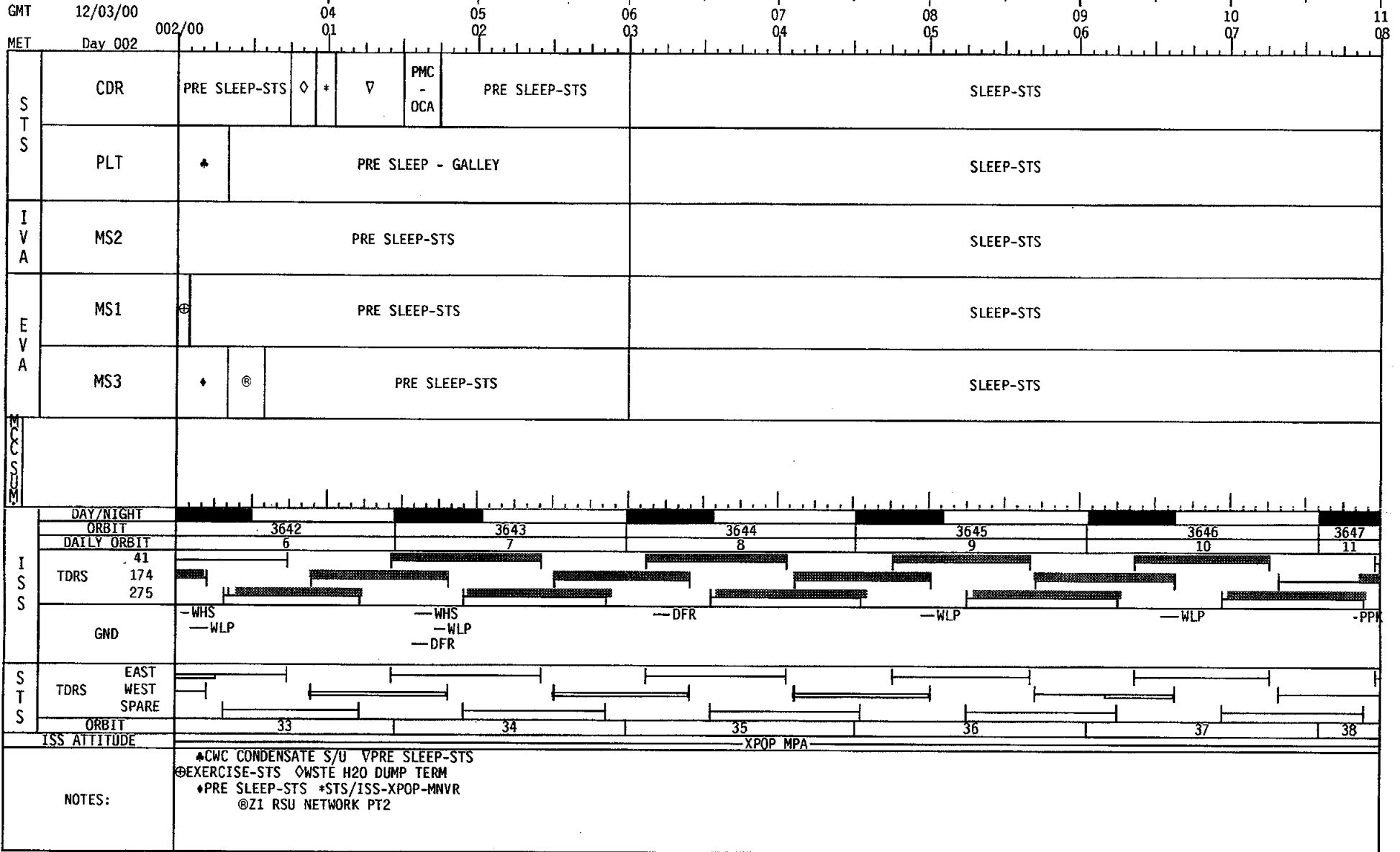
STS-97 (FD03)

GMT	12/02/00		20		21		22		23		12/03		01		02		03			
MET	Day 001		16		17		18		19		20		21		22		23		002/00	
S T S	CDR	APPROACH TIMELINE	φ	GP R P R D N	DTO 257	P/TV21 OPS P6 UNBRTH				PCS S/U		•	EVA BRIEF		EXERCISE-STS		∇			
	PLT	ISS RNDZ			DTO 257	RMS-P6 THERMAL-MNVR		◇	*	VTR ACT	EXERCISE-STS		EVA BRIEF		PRE SLEEP - GALLEY		⊕	♦	I M U	
I V A	MS2	ISS RNDZ		RP M W S R U P	⊗	P/TV21 S/U P6 UNBRTH		RMS-P6 THERMAL-MNVR		EXERCISE-STS		▼	EVA BRIEF		PRE SLEEP-STS		Δ			
E V A	MS1	P/TV20 OPS DOCK/UNDK		ACS-POST DK-LK CK	STS-ODS INGR-PREP	▲	φ	∇	STS-ODS-LK CK	•	◇	*	•	PGSC RECONFIG		EXERCISE-STS				
	MS3	ISS RNDZ		ACS-POST DK-LK CK	STS-ODS INGR-PREP	⊕	♦	▼	STS-ODS-LK CK	⊗	STS/ISS XFER OPS		Δ	EVA BRIEF		PGSC RECONFIG		▲	φ	•
M C S M	ACS-ARRIVAL-CONFIG		ACS-ARRIVAL-CONFIG		ACS-ARRIVAL-CONFIG		ACS-ARRIVAL-CONFIG		ACS-ARRIVAL-CONFIG		ACS-ARRIVAL-CONFIG		ACS-ARRIVAL-CONFIG		ACS-ARRIVAL-CONFIG		ACS-ARRIVAL-CONFIG			
	%ISS SA SUN TRK INIT		%ISS SA SUN TRK INIT		%ISS SA SUN TRK INIT		%ISS SA SUN TRK INIT		%ISS SA SUN TRK INIT		%ISS SA SUN TRK INIT		%ISS SA SUN TRK INIT		%ISS SA SUN TRK INIT		%ISS SA SUN TRK INIT			
	ACS-POST DK-LK CK		ACS-POST DK-LK CK		ACS-POST DK-LK CK		ACS-POST DK-LK CK		ACS-POST DK-LK CK		ACS-POST DK-LK CK		ACS-POST DK-LK CK		ACS-POST DK-LK CK		ACS-POST DK-LK CK			
	ACS-POST ARVL-CNFG		ACS-POST ARVL-CNFG		ACS-POST ARVL-CNFG		ACS-POST ARVL-CNFG		ACS-POST ARVL-CNFG		ACS-POST ARVL-CNFG		ACS-POST ARVL-CNFG		ACS-POST ARVL-CNFG		ACS-POST ARVL-CNFG			
	C&DH-DOCK-CNFG		C&DH-DOCK-CNFG		C&DH-DOCK-CNFG		C&DH-DOCK-CNFG		C&DH-DOCK-CNFG		C&DH-DOCK-CNFG		C&DH-DOCK-CNFG		C&DH-DOCK-CNFG		C&DH-DOCK-CNFG			
SPS-ARRIVAL-P/U		SPS-ARRIVAL-P/U		SPS-ARRIVAL-P/U		SPS-ARRIVAL-P/U		SPS-ARRIVAL-P/U		SPS-ARRIVAL-P/U		SPS-ARRIVAL-P/U		SPS-ARRIVAL-P/U		SPS-ARRIVAL-P/U		SPS-ARRIVAL-P/U		
I S S	DAY/NIGHT		ORBIT		DAILY ORBIT		TDRS		GND		STARS		ISS ATTITUDE		ISS ATTITUDE		ISS ATTITUDE			
	ORBIT		3636	3637	3638	3639	3640	3641	3642	ORBIT		27	28	29	30	31	32	33		
	DAILY ORBIT		16	1	2	3	4	5	6	DAILY ORBIT		16	1	2	3	4	5	6		
	TDRS		41	174	275	TDRS		GND		STARS		ISS ATTITUDE		ISS ATTITUDE		ISS ATTITUDE		ISS ATTITUDE		
GND		—DJS —KLP —SHK —WUSK		—DJS —KLP —SHK —SPB-ULD		—DJS —SHK —SPB		—DJS —SHK —SPB		—DJS —SHK —SPB		—WLP —SHK —SPB		—WLP —SHK —SPB		—WLP —SHK —SPB				
STARS		EAST WEST SPARE		EAST WEST SPARE		EAST WEST SPARE		EAST WEST SPARE		EAST WEST SPARE		EAST WEST SPARE		EAST WEST SPARE		EAST WEST SPARE				
ISS ATTITUDE		RNDZ		FD		FD		FD		FD		FD		FD		FD				
NOTES:		*ACS ARRIVAL MODE		φSTS/ISS-XPOP-MNVR		▲STS/ISS-ODS/PMA-PRES		◇ICBC3D STATUS		•PRE SLEEP-STS		*POWERUP		▽PRE SLEEP		⊗STS-H2O DMP-MN				
				⊗RMS-PRE GRAPPLE		φISS-PMA3-INGR EARLY		*10.2 MAINTENANCE		▼XFER STATUS				♦WSTE H2O I						
				*ACS POST ARRIVAL		⊗STS/ISS-ODS/PMA-PRES		*PMA3		▲VTR PLAYBACK				ΔEMU INSTALLATION						
				*MDM CONFIG POST DOCK		♦ISS-PMA3-INGR EARLY		•ISS-PMA3-INGR EARLY		▲ISS-PMA3-EGR EARLY				♦EMU INSTALLATION						
				▼CLOSEOUT ODS VEST		⊗PMA3-GND STRP-INSTAL		*STS/ISS XFER OPS		▲ISS-PMA3-EGR EARLY				φZ1 RSU NETH						
								⊗ISS-PMA3-INGR EARLY						SPR SLE						

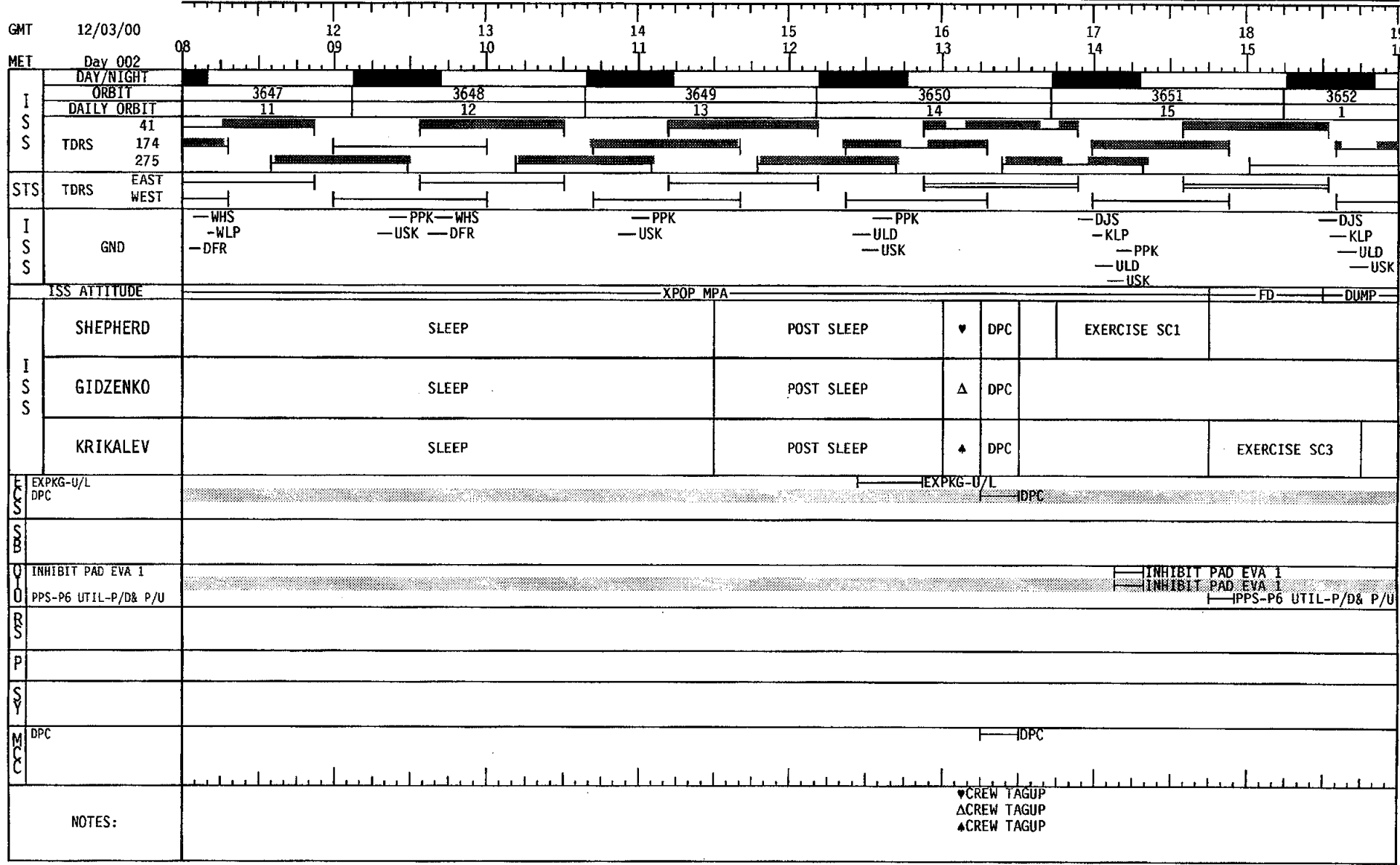
STS-97 (FD03)



STS-97 (FD03)



STS-97 (FD03)	STS-97 (FD04)
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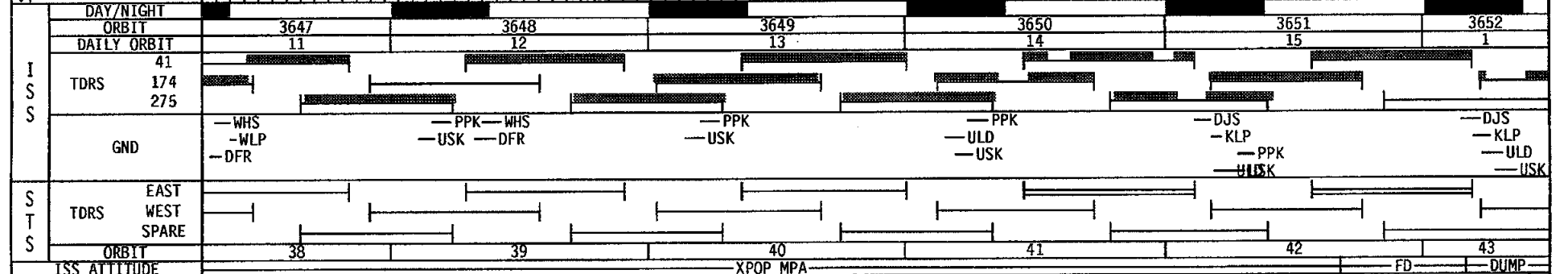


STS-97 (FD03)	STS-97 (FD04)
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GMT 12/03/00 08 12 13 14 15 16 17 18 19
 MET Day 002 09 10 11 12 13 14 15 16

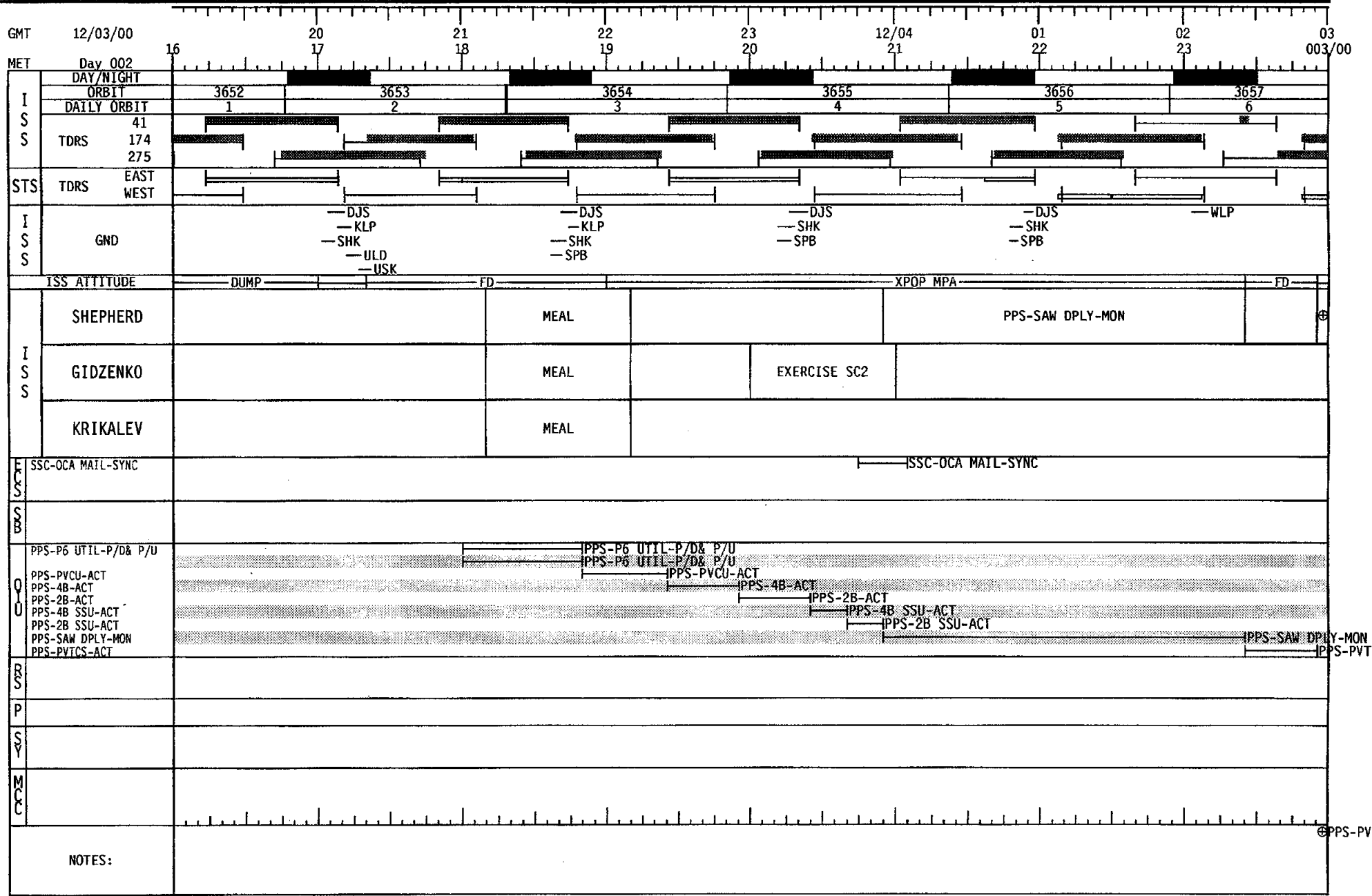
S T S	CDR	SLEEP-STS	POST SLEEP-STS	φ	EVA PREP	•	EVA PREP	EMU PURGE & P/B	EVA 1 SUPPORT
	PLT	SLEEP-STS	POST SLEEP - GALLEY	PMC - A/G ONLY	∇	P/TV23 S/U EVA	RMS-P6 PRE MATE-MNVR	RMS EVA SPT OSVS	◇
I V A	MS2	SLEEP-STS	POST SLEEP-STS		P/TV23 S/U EVA	RMS-P6 PRE MATE-MNVR	RMS EVA SPT OSVS	EMU PURGE & P/B	EVA 1 SUPPORT
	MS1	SLEEP-STS	POST SLEEP-STS		EVA PREP			EMU PURGE & P/BA/L DEPR*	
E V A	MS3	SLEEP-STS	POST SLEEP-STS		EVA PREP			EMU PURGE & P/BA/L DEPR*	

INHIBIT PAD EVA 1 PPS-P6 UTIL-P/D& P/U



NOTES:

STS-97 (FD04)



STS-97 (FD04)

GMT 12/03/00 20 21 22 23 12/04 01 02 03
 MET Day 002 16 17 18 19 20 21 22 23 003/00

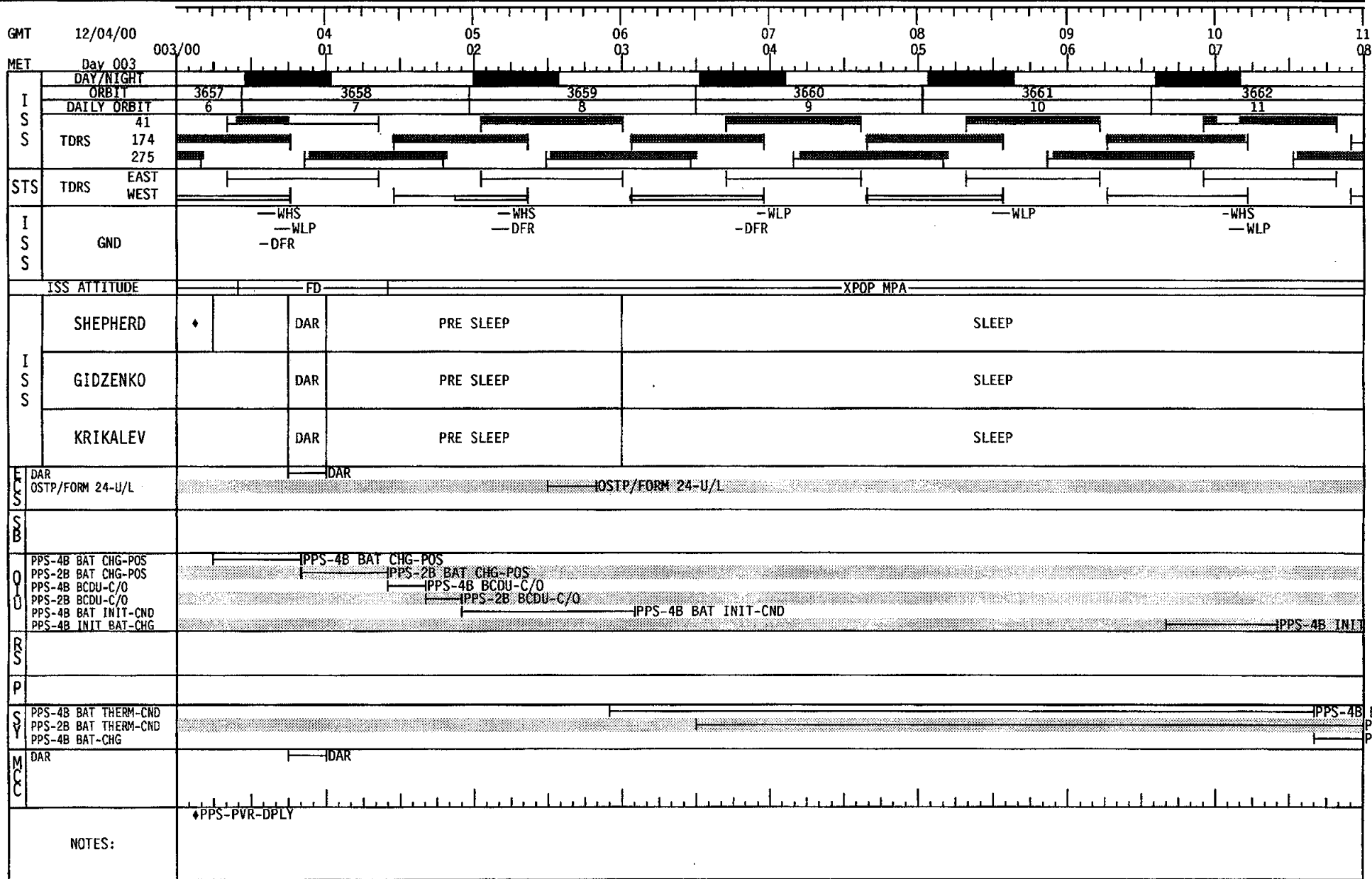
S T S	CDR	EVA 1 SUPPORT			PPS-P6 UTIL-P/D& P/U	PPS-PVCU ACT-MON	EXERCISE-STS			PPS-2B BGA/SAW-ACT			PPS-4B BGA/SAW-ACT			*
	PLT	P/TV23 OPS EVA	P6 TO RTL	RMS-P6 INSTL-PREP	® P/TV23 OPS & Z1 CNCT	P/TV23 OPS EVA			Δ	SAW VIEW	P/TV25 OPS SA DEPLOY	SAW VIEW	▲	P/TV25 OPS SA DEPLOY		
I V A	MS2	φ	P6 TO RTL	RMS-P6 INSTL-PREP	EVA 1 SUPPORT							POST EVA W/ H2O RCH		RMS PWRDN	*	
E V A	MS1	SORTIE SETUP 1		ATTACH P6 TO Z1	PPS-SABB(S) RSTR-REL	PPS-SABB(P) RSTR-REL	PPS-B/G(P) RSTR-REL	▽	EVA1 PHOTO DOCUMENT	SORTIE CLEANUP EVA1	⊙A/L REPR	POST EVA W/ H2O RCH				
	MS3	SORTIE SETUP 1		ATTACH P6 TO Z1	CNNCT P6 TO Z1 P/D/U	PPS-B/G(S) RSTR-REL	ROT KEEL PIN	*	PPS-PVR CNC/WNCH-REL	* SORTIE CLEANUP EVA1	⊙A/L REPR	POST EVA W/ H2O RCH				
M C S I M	PPS-P6 UTIL-P/D& P/U		PPS-P6 UTIL-P/D& P/U													
	PPS-PVCU-ACT		PPS-PVCU-ACT													
	PPS-4B-ACT		PPS-4B-ACT													
	PPS-2B-ACT		PPS-2B-ACT													
	PPS-4B SSU-ACT		PPS-4B SSU-ACT													
	PPS-2B SSU-ACT		PPS-2B SSU-ACT													
	PPS-2B BGA/SAW-ACT		PPS-2B BGA/SAW-ACT													
	PPS-4B BGA/SAW-ACT		PPS-4B BGA/SAW-ACT													

I S S	DAY/NIGHT	[Gantt chart showing day/night cycles]													
	ORBIT	3652	3653	3654	3655	3656	3657								
	DAILY ORBIT	1	2	3	4	5	6								
	TDRS	41	174	275	[Gantt chart for TDRS]										
S T S	GND	[Gantt chart for ground crew: DJS, KLP, SHK, SPB, WLP]													
	TDRS EAST WEST SPARE	[Gantt chart for TDRS East, West, Spare]													
I S S	ORBIT	43	44	45	46	47	48								
	ISS ATTITUDE	[Gantt chart for ISS attitude: DUMP, FD, XPOP MPA]													

NOTES:

- φEVA 1 SUPPORT
- ®RMS-P6-UNGRAPPLE
- ▼OSVS PWRDN
- ΔP/TV25 S/U SA DEPLOY
- ▽PPS-SABB(P)-UNSTOW
- *PPS-SABB(S)-UNSTOW
- ▲EVA1 PHOTO DOCUMENT
- ⊙A/L INGR
- ⊙A/L INGR
- ▲10.2 MAINTENANCE
- *PPS-PV
- *PPS-PV

STS-97 (FD04)



STS-97 (FD04)

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

S T S	CDR	⊙	♥	PRE SLEEP-ST5	PMC - OCA	PRE SLEEP-ST5	SLEEP-ST5
	PLT	Δ		PRE SLEEP - GALLEY			SLEEP-ST5
I V A	MS2	▲	φ	PRE SLEEP-ST5			SLEEP-ST5
E V A	MS1	EMU L1OH C/O	•	PRE SLEEP-ST5			SLEEP-ST5
	MS3	EMU L1OH C/O	∇	PRE SLEEP-ST5			SLEEP-ST5

M C S U M	PPS-4B BAT CHG-POS	PPS-4B BAT CHG-POS
	PPS-2B BAT CHG-POS	PPS-2B BAT CHG-POS
	PPS-4B BCDU-C/O	PPS-4B BCDU-C/O
	PPS-2B BCDU-C/O	PPS-2B BCDU-C/O
	PPS-4B BAT INIT-CND	PPS-4B BAT INIT-CND
	PPS-4B BAT THERM-CND	PPS-4B BAT THERM-CND
	PPS-2B BAT THERM-CND	PPS-2B BAT THERM-CND
	PPS-4B INIT BAT-CHG	PPS-4B INIT BAT-CHG

I S S	DAY/NIGHT	[Day/Night Cycle]										
	ORBIT	3657	3658	3659	3660	3661	3662					
	DAILY ORBIT	6	7	8	9	10	11					
	TDRS	41	174	275								
GND	WHS	[WHS Schedule]										
	WLP	[WLP Schedule]										
DFR	[DFR Schedule]											

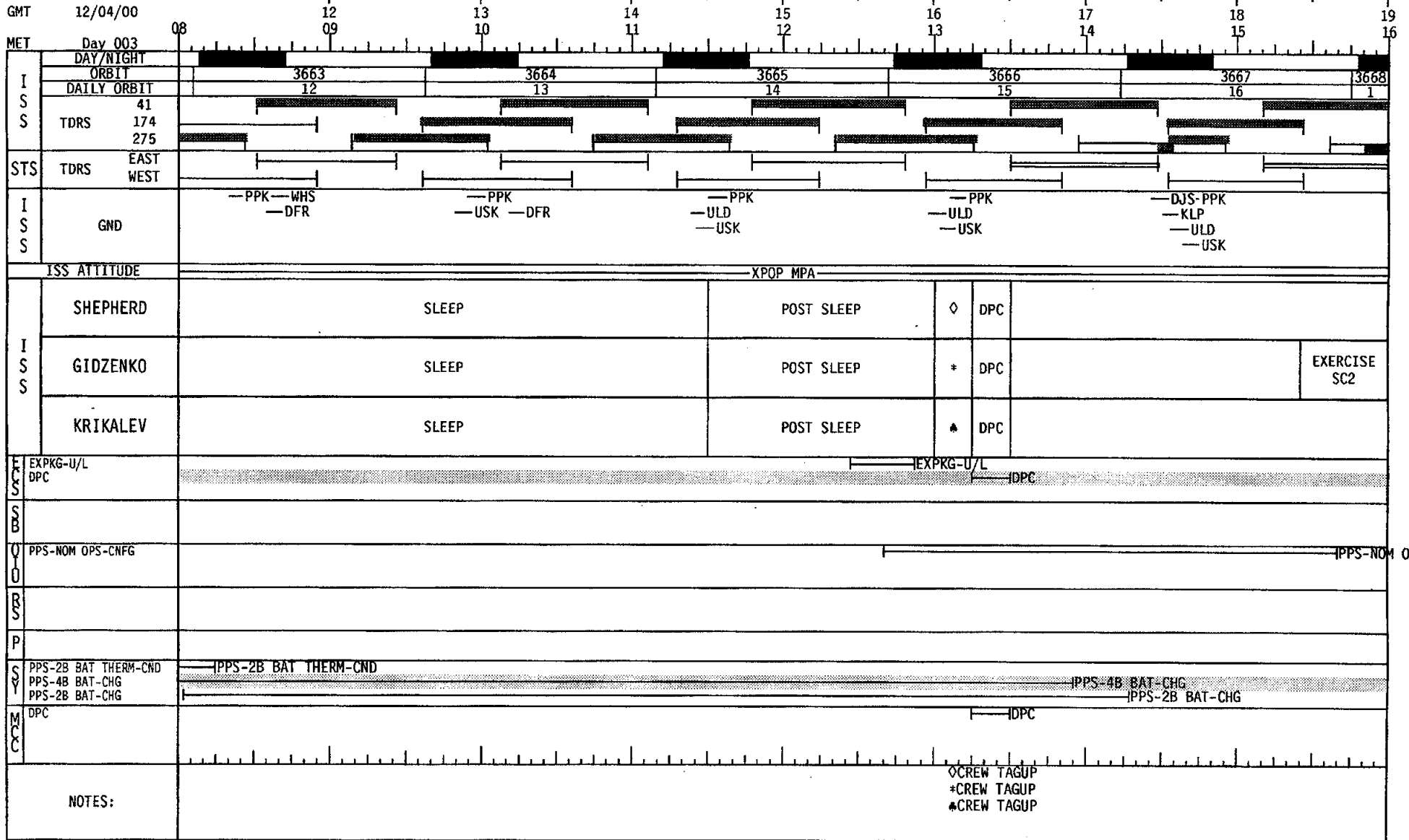
S T S	TDRS	[TDRS Schedule]										
	EAST	[EAST Schedule]										
	WEST	[WEST Schedule]										
SPARE	[SPARE Schedule]											
ORBIT	48	49	50	51	52	53						
ISS ATTITUDE	FD XPOP MPA											

NOTES:
 ⊙PPS-PVR-DPLY
 ♥STS/ISS-XPOP-MNVR
 ΔP/TV25 OPS SA DEPLOY
 ▲PPS-PVR-DPLY
 φICBC3D STATUS
 ◊EMU BATT CHRG INIT

BAT T
 PPS-2E
 BAT-C
 PPS-4E

STS-97 (FD04)

STS-97 (FD05)



STS-97 (FD04)	STS-97 (FD05)
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GMT 12/04/00
 MET Day 003

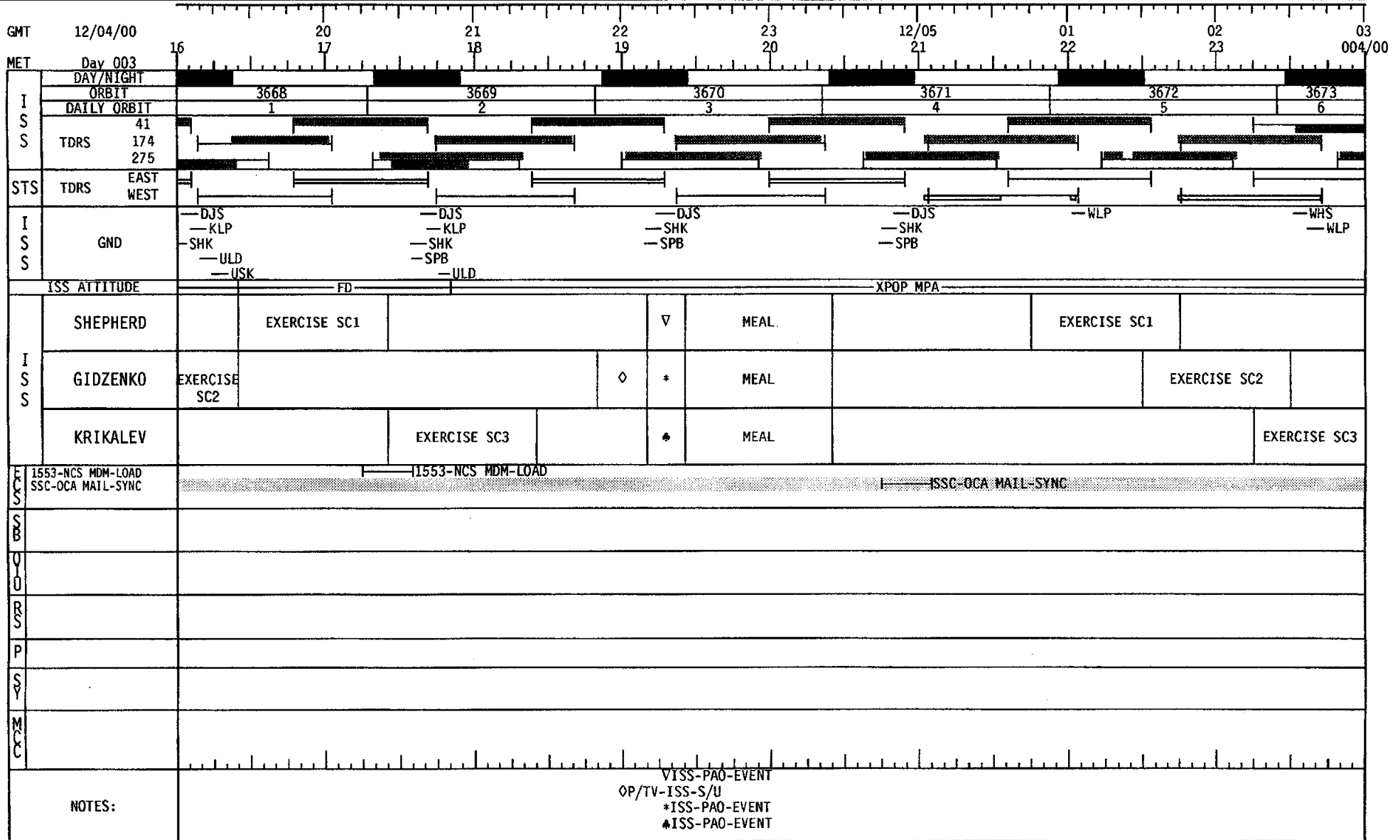
S T S	CDR	SLEEP-STS	POST SLEEP-STS	⊕ CAB TEMP CNTRL TT ⊕	EXERCISE-STS	
	PLT	SLEEP-STS	POST SLEEP - GALLEY	EXERCISE-STS	VTR ACT VTR PLAYBACK	
I V A	MS2	SLEEP-STS	POST SLEEP-STS	WATER FILL INIT	EXERCISE-STS	WFT PC A I E R L T L R L O E L M A S R E
	MS1	SLEEP-STS	POST SLEEP-STS	SAFER C/O	AUX BATT CHG INIT	EVA#2 TOOL CONFIG
E V A	MS3	SLEEP-STS	POST SLEEP-STS	SAFER C/O	FUEL CELL MONITOR	EVA#2 TOOL CONFIG

M C S E U M	PPS-2B BAT THERM-CND	PPS-2B BAT THERM-CND	PPS-4B BAT-CHG	PPS-4B BAT-CHG	PPS-2B BAT-CHG	PPS-NOM OPS-CNFG	PPS-NOM OPS-
	PPS-4B BAT-CHG	PPS-2B BAT-CHG	PPS-2B BAT-CHG	PPS-2B BAT-CHG	PPS-2B BAT-CHG	PPS-2B BAT-CHG	PPS-2B BAT-CHG
	PPS-2B BAT-CHG	PPS-2B BAT-CHG	PPS-2B BAT-CHG	PPS-2B BAT-CHG	PPS-2B BAT-CHG	PPS-2B BAT-CHG	PPS-2B BAT-CHG
	PPS-NOM OPS-CNFG	PPS-NOM OPS-CNFG	PPS-NOM OPS-CNFG	PPS-NOM OPS-CNFG	PPS-NOM OPS-CNFG	PPS-NOM OPS-CNFG	PPS-NOM OPS-CNFG

I S S	DAY/NIGHT	ORBIT	3663	3664	3665	3666	3667	3668	
	DAILY ORBIT	41	12	13	14	15	16	1	
	TDRS	174	275	PPK	WHS	DFR	PPK	USK	DFR
	GND	PPK	WHS	DFR	PPK	USK	DFR	PPK	USK
	TDRS	EAST	WEST	SPARE	PPK	ULD	USK	PPK	ULD

S T S	ORBIT	54	55	56	57	58	59
	ISS ATTITUDE	XPOP MPA	ΔASPIRIN	φASPIRIN	⊕10.2 MAINTENANCE	⬆HEATER RECONFIG	⊕RCS REG RECONFIG
NOTES:						♥WCS CHECK	⬆MIDDECK PREP
						⬆MIDDECK PREP	⬆MIDDECK PREP

STS-97 (FD05)



STS-97 (FD05)

GMT 12/04/00 20 21 22 23 12/05 01 02 03
 MET Day 003 16 17 18 19 20 21 22 23 004/00

S T S	CDR	⊗	◆	⊗	MEAL-STS	OFF DUTY	WATER FILL INIT	OFF DUTY	▼ PFC - OCA	EVA BRIEF	
	PLT		Δ		MEAL-STS	OFF DUTY	PFC - OCA	OFF DUTY	WFT AIE TLR ELM R	EVA BRIEF	
I V A	MS2	PC RL LO ASE	▲	FLTR CLN - INSPECT	MEAL-STS	OFF DUTY	PFC - OCA	OFF DUTY	φ	EVA BRIEF	
E V A	MS1	EVA#2 TOOL CONFIG	P/TV02 S/U PAO	•	EXERCISE-STS	MEAL-STS	OFF DUTY	PFC - OCA	OFF DUTY	AUX BATT CHG TERM	EVA BRIEF
	MS3	EVA#2 TOOL CONFIG	▽	◇	EXERCISE-STS	MEAL-STS	OFF DUTY	PFC - OCA	OFF DUTY	*	EVA BRIEF

1553-NCS MDM-LOAD 1553-NCS MDM-LOAD

I S S	DAY/NIGHT	[Bar chart showing day/night cycle]					
	ORBIT	3668	3669	3670	3671	3672	3673
	DAILY ORBIT	1	2	3	4	5	6
	TDRS	41	[Bar]	[Bar]	[Bar]	[Bar]	[Bar]
		174	[Bar]	[Bar]	[Bar]	[Bar]	[Bar]
		275	[Bar]	[Bar]	[Bar]	[Bar]	[Bar]
S T S	GND	-DJS -DJS -DJS -DJS -WLP -WHS -KLP -KLP -SHK -SHK -SHK -SHK -SHK -SHK -SPB -SPB -SPB -SPB -HUSK -SPB-ULD					
	TDRS EAST WEST SPARE	[Bar chart showing TDRS activity]					

ISS ATTITUDE	59	60	61	62	63	64
NOTES:	⊗EXERCISE-STS		◆P/TV02 IN CABIN PAO		▼10.2 MAINTENANCE	
	⊗STS-APCU-DEACT		⊗P/TV02 IN CABIN PAO		φEMU BATT CHRG TERM	
	ΔP/TV02 IN CABIN PAO		▲P/TV02 IN CABIN PAO		*EMU BATT CHRG TERM	
	•P/TV02 IN CABIN PAO		●P/TV02 IN CABIN PAO		*TERM	
	VP/TV18 EVA CMD S/U		⊙P/TV02 IN CABIN PAO		*TERM	

STS-97 (FD05)

GMT 12/05/00 004/00 04 05 06 07 08 09 10 11
 MET Day 004 01 02 03 04 05 06 07 08

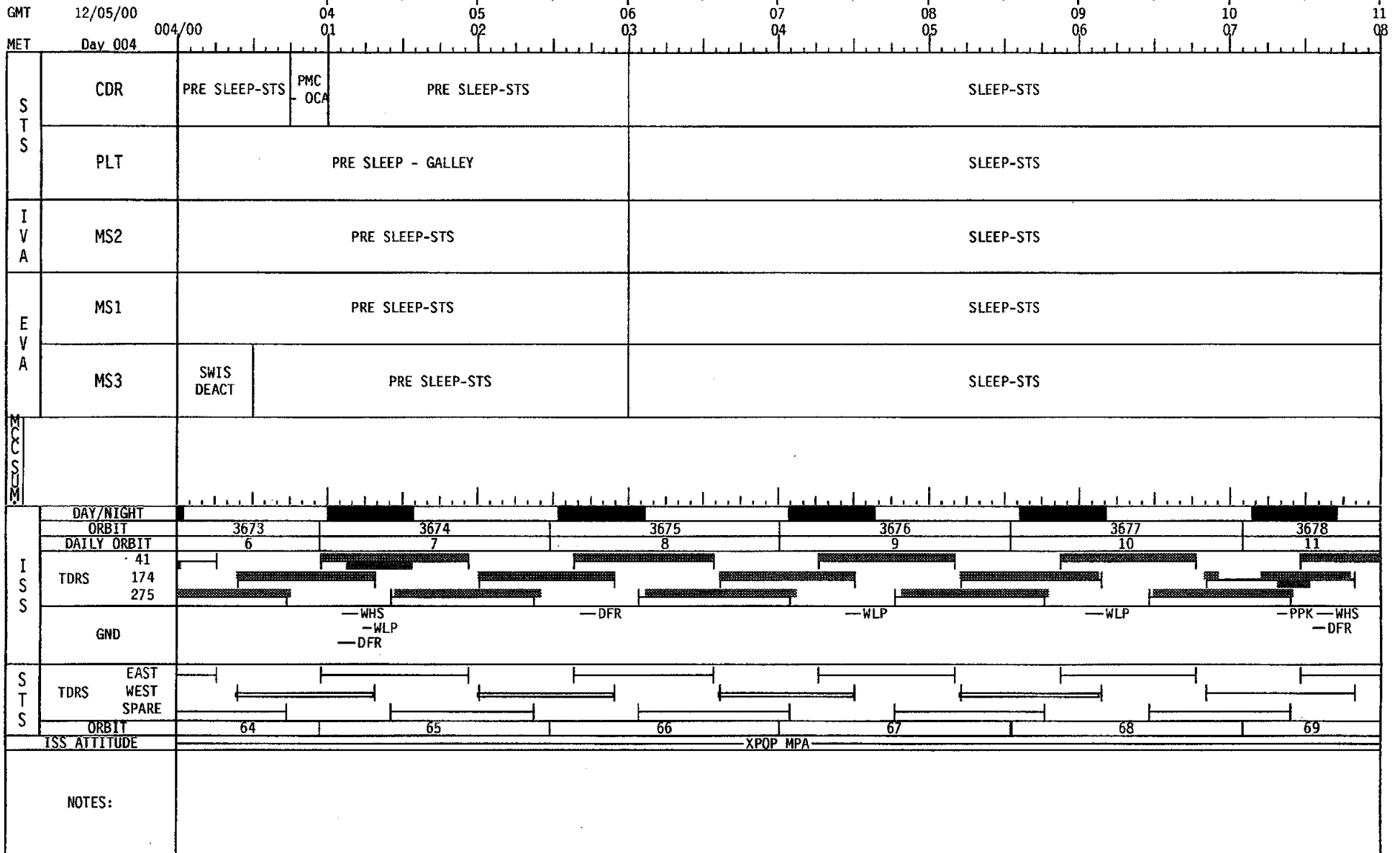
ISS	DAY/NIGHT	[Shaded bars indicating day/night cycle]										
	ORBIT	3673	3674	3675	3676	3677	3678					
	DAILY ORBIT	6	7	8	9	10	11					
ISS	TDRS	41	[Shaded bars]									
	TDRS	174	[Shaded bars]									
STS	TDRS	EAST	[Shaded bars]									
	TDRS	WEST	[Shaded bars]									
ISS	GND	--WHS --WLP --DFR --DFR --WLP --WLP --WLP --PPK --WHS --DFR										

ISS ATTITUDE		XPOP MPA										
ISS	SHEPHERD		DAR	PRE SLEEP								SLEEP
	GIDZENKO		DAR	PRE SLEEP								SLEEP
	KRIKALEV	*	DAR	PRE SLEEP								SLEEP

ECS	DAR	[Shaded bar]									
	OSTP/FORM 24-U/L	[Shaded bar]									
SBS		[Shaded bar]									
		[Shaded bar]									
URS		[Shaded bar]									
		[Shaded bar]									
P		[Shaded bar]									
		[Shaded bar]									
MCC	DAR	[Shaded bar]									
		[Shaded bar]									

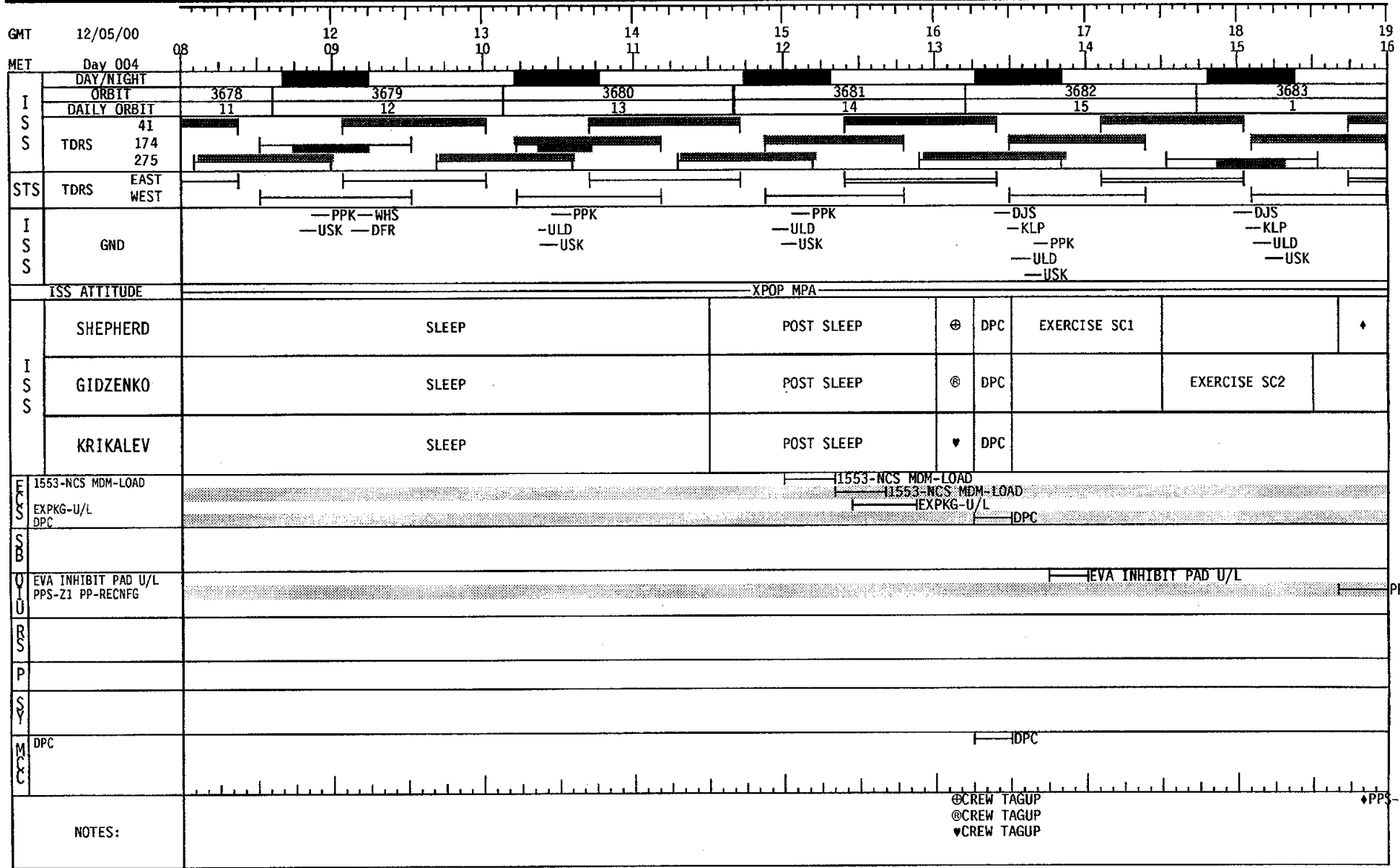
NOTES: *EXERCISE SC3

STS-97 (FD05)



STS-97 (FD05)

STS-97 (FD06)



STS-97 (FD05)	STS-97 (FD06)
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GMT 12/05/00
 MET Day 004

STS	CDR	SLEEP-STS	POST SLEEP-STS	PMC OCA	POST SLEEP-STS	Δ	▲	P/TV23 S/U EVA	EXERCISE-STS	φ
	PLT	SLEEP-STS	POST SLEEP - GALLEY					SHM RTC MRI S & U	P/TV23 S/U EVA	RMS PWRUP
EVA	MS2	SLEEP-STS	POST SLEEP-STS	EVA PREP			EMU PURGE & P/B		EVA 2 SUPPORT	
	MS1	SLEEP-STS	POST SLEEP-STS	EVA PREP			EMU PURGE & P/B		A/L DEPR •	
	MS3	SLEEP-STS	POST SLEEP-STS	EVA PREP			EMU PURGE & P/B		A/L DEPR V	

MCSUM
 1553-NCS MDM-LOAD
 EVA INHIBIT PAD U/L
 PPS-Z1 PP-RECNG

PPS-Z1

ISS	DAY/NIGHT	[Day/Night Cycle]									
	ORBIT	3678	3679	3680	3681	3682	3683				
	DAILY ORBIT	11	12	13	14	15	1				
	TDRS	41	174	275							
	GND	--- PPK --- WHS --- USK --- DFR --- PPK --- ULD --- USK --- PPK --- ULD --- USK --- DJS --- KLP --- PPK --- ULD --- USK --- DJS --- KLP --- ULD --- USK									
STS	TDRS	[TDRS Schedule]									
	ORBIT	69	70	71	72	73	74				
ISS ATTITUDE		XPOP MPA									

NOTES:

Δ10.2 MAINTENANCE
 ▲EVA INHIBIT PAD U/L
 φPPS-Z1 PF
 ●A/L EG
 ▼A/L EG

STS-97 (FD06)

GMT 12/05/00 16 20 21 22 23 12/06 01 02 03
 MET Day 004 17 18 19 20 21 22 23 005/00

ISS	DAY/NIGHT	[Shaded bars indicating day/night cycle]															
	ORBIT	3683	3684	3685	3686	3687	3688										
	DAILY ORBIT	1	2	3	4	5	6	7									
ISS	TDRS	41	[Shaded bars]														
	TDRS	174	[Shaded bars]														
STS	TDRS	EAST	[Shaded bars]														
	TDRS	WEST	[Shaded bars]														
ISS	GND	-DJS -KLP -SHK -ULD -USK		-DJS -KLP -SHK -SPB		-DJS -SHK -SPB		-SHK -SPB		-WLP							

ISS	ISS ATTITUDE	XPOP MPA				FD		LVLH TEA			
	SHEPHERD	PPS-Z1 PP-RECNG	G: MEAL	◇	*						*
	GIDZENKO		E MEAL			EXERCISE SC2					⊕
	KRIKALEV	EXERCISE SC3	A MEAL	*					EXERCISE SC3		

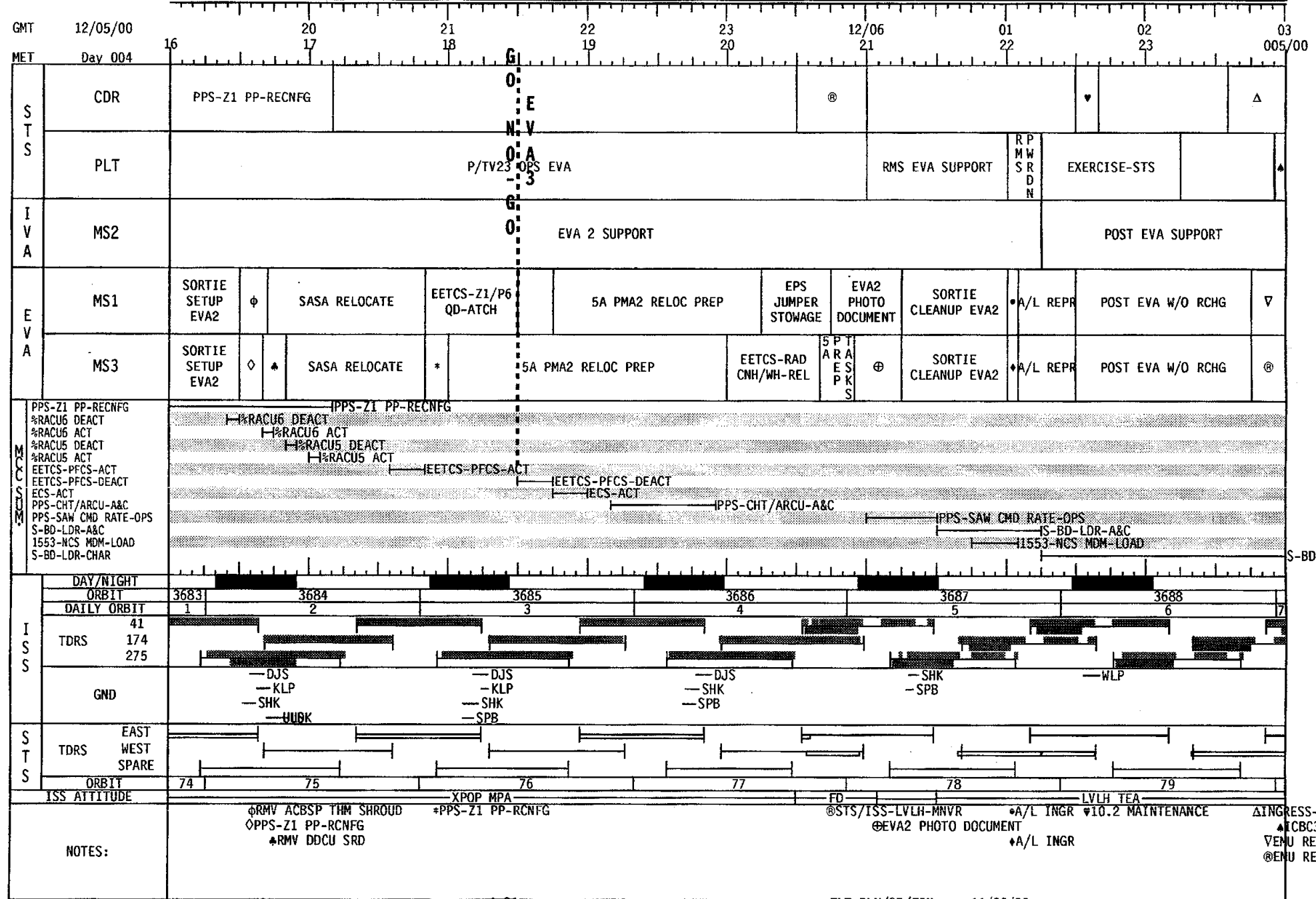
ISS	SSC-OCA MAIL-SYNC	[Shaded bar]									
	1553-NCS MDM-LOAD	[Shaded bar]									

ISS	PPS-Z1 PP-RECNG	[Shaded bar]													
	%RACU6 DEACT	[Shaded bar]													
	%RACU6 ACT	[Shaded bar]													
	%RACU5 DEACT	[Shaded bar]													
	%RACU5 ACT	[Shaded bar]													
	EETCS-PFCS-ACT	[Shaded bar]													
	EETCS-PFCS-DEACT	[Shaded bar]													
	ECS-ACT	[Shaded bar]													
	PPS-CHT/ARCU-A&C	[Shaded bar]													
	PPS-SAW CMD RATE-OPS	[Shaded bar]													
C&W INHIBIT	[Shaded bar]														
S-BD-LDR-A&C	[Shaded bar]														

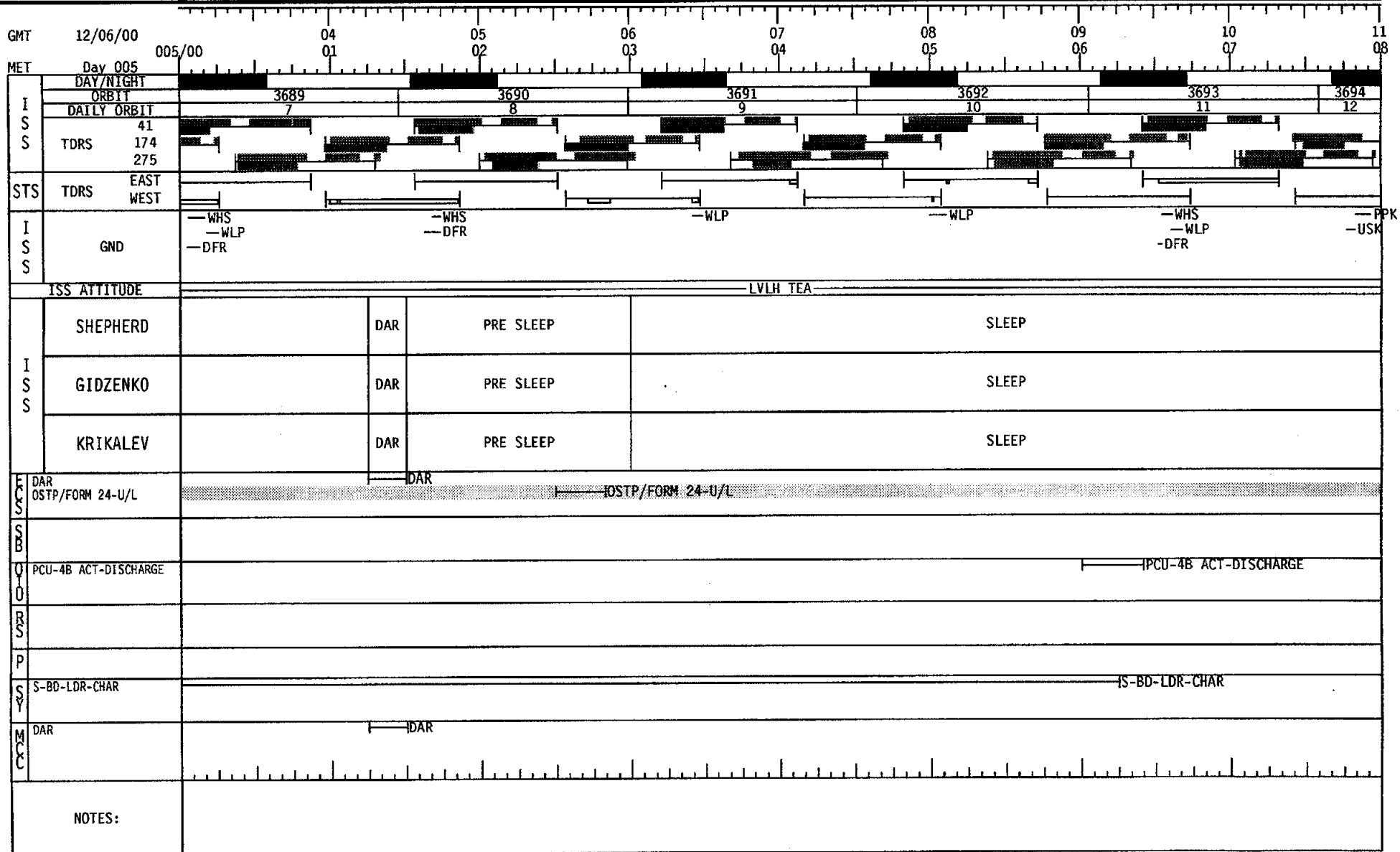
ISS	S-BD-LDR-CHAR	[Shaded bar]													
		[Shaded bar]													

NOTES: OPSS-CHT/ARCU-A&C *STS/ISS-LVLH-MNVR *INGRESS-T
 †PPS-CHT/ARCU-A&C †INGRESS-T

STS-97 (FD06)



STS-97 (FD06)



STS-97 (FD06)

GMT		12/06/00		04	05	06	07	08	09	10	11	
MET		Day 005		01	02	03	04	05	06	07	08	
STS	CDR	PRE SLEEP-STS	PMC - OCA	PRE SLEEP-STS				SLEEP-STS				
	PLT	PRE SLEEP - GALLEY					SLEEP-STS					
I V A	MS2	PRE SLEEP-STS					SLEEP-STS					
E V A	MS1	▼	PRE SLEEP-STS				SLEEP-STS					
	MS3	Δ	PRE SLEEP-STS				SLEEP-STS					
M C S U M	S-BD-LDR-CHAR										S-BD-LDR-CHAR	
	PCU-4B ACT-DISCHARGE										PCU-4B ACT-DISCHARGE	
I S S	DAY/NIGHT	[Shaded bars indicating day/night cycle]										
	ORBIT	3689	3690	3691	3692	3693	3694					
	DAILY ORBIT	7	8	9	10	11	12					
	TDRS	41	174	275	[Shaded bars indicating TDRS activity]							
	GND	-WHS -WLP -DFR	-WHS -DFR	-WLP	-WLP	-WHS -WLP -DFR	-PK -USK					
S T S	EAST	[Shaded bars indicating EAST TDRS activity]										
	WEST SPARE	[Shaded bars indicating WEST SPARE TDRS activity]										
ISS ATTITUDE		80	81	82	83	84	85	LVLH TEA				
NOTES:		▼EMU REMOVAL ΔEMU REMOVAL										

STS-97 (FD06)

STS-97 (FD07)

GMT 12/06/00 08 12 13 14 15 16 17 18 19
 MET Day 005 09 10 11 12 13 14 15 16

ISS	DAY/NIGHT	[Gantt chart showing day/night cycles]														
	ORBIT	3694		3695			3696			3697			3698		3699	
	DAILY ORBIT	12		13			14			15			1		2	
STS	TDRS	[Gantt chart showing TDRS activity]														
	EAST	[Gantt chart showing East TDRS activity]														
	WEST	[Gantt chart showing West TDRS activity]														
ISS	GND	[Gantt chart showing ground activities: WHS, DFR, PPK, USK, ULD, USK, DJS, KLP, PPK, ULD, USK, DJS, KLP, ULD, USK, DJS, KLP, SHK, ULD, USK]														

ISS ATTITUDE LVLH TEA

ISS	SHEPHERD	SLEEP	POST SLEEP	DPC	▲	ISS-PMA3-INGR	STS/ISS XFER OPS	φ	•	▽	◇
	GIDZENKO	SLEEP	POST SLEEP	DPC	*	ISS-PMA3-INGR	STS/ISS XFER OPS	*	⊕	◆	
	KRIKALEV	SLEEP	POST SLEEP	DPC	⊗	ISS-PMA3-INGR	STS/ISS XFER OPS	▼	△	▲	

ISS	1553-NCS MDM-LOAD	[Gantt chart showing MDM-LOAD activity]									
	EXPKG-U/L	[Gantt chart showing EXPKG-U/L activity]									
ISS	DPC	[Gantt chart showing DPC activity]									

ISS	TCS-NOM OPS-CNFG	[Gantt chart showing TCS-NOM OPS-CNFG activity]									
	EETCS-LOOP A-C/O	[Gantt chart showing EETCS-LOOP A-C/O activity]									

ISS	TCS-NOM OPS-CNFG	[Gantt chart showing TCS-NOM OPS-CNFG activity]									
	EETCS-LOOP A-C/O	[Gantt chart showing EETCS-LOOP A-C/O activity]									

ISS	TCS-NOM OPS-CNFG	[Gantt chart showing TCS-NOM OPS-CNFG activity]									
	EETCS-LOOP A-C/O	[Gantt chart showing EETCS-LOOP A-C/O activity]									

ISS	TCS-NOM OPS-CNFG	[Gantt chart showing TCS-NOM OPS-CNFG activity]									
	EETCS-LOOP A-C/O	[Gantt chart showing EETCS-LOOP A-C/O activity]									

ISS	TCS-NOM OPS-CNFG	[Gantt chart showing TCS-NOM OPS-CNFG activity]									
	EETCS-LOOP A-C/O	[Gantt chart showing EETCS-LOOP A-C/O activity]									

ISS	TCS-NOM OPS-CNFG	[Gantt chart showing TCS-NOM OPS-CNFG activity]									
	EETCS-LOOP A-C/O	[Gantt chart showing EETCS-LOOP A-C/O activity]									

NOTES: ▲ISS-N1-INGR *ISS-N1-INGR ⊗ISS-N1-INGR
 φCBM-CNTR DISK-RMVL *STS/ISS-PMA3-INGR (VSTS/ISS-SAFI OP/TV-I *STS/ISS-STS/ISS-SAFI

STS-97 (FD06)	STS-97 (FD07)
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GMT 12/06/00
 MET Day 005

S T S	CDR	SLEEP-STS	POST SLEEP-STS	14.7 REPRESS	φ	•	∇
	PLT	SLEEP-STS	POST SLEEP - GALLEY		◇	+	▲
I V A	MS2	SLEEP-STS	POST SLEEP-STS	EXERCISE-STS	⊕	◆	⊗
E V A	MS1	SLEEP-STS	POST SLEEP-STS	EMU L10H C/O P/TV22 S/U INGRS		△	▲
	MS3	SLEEP-STS	POST SLEEP-STS	EMU L10H C/O PCS D/A	∇	◇	*

MCSUM
 TCS-NOM OPS-CNFG
 1553-NCS MDM-LOAD
 EETCS-LOOP A-C/O

TCS-NOM OPS-CNFG
 1553-NCS MDM-LOAD

EETCS-

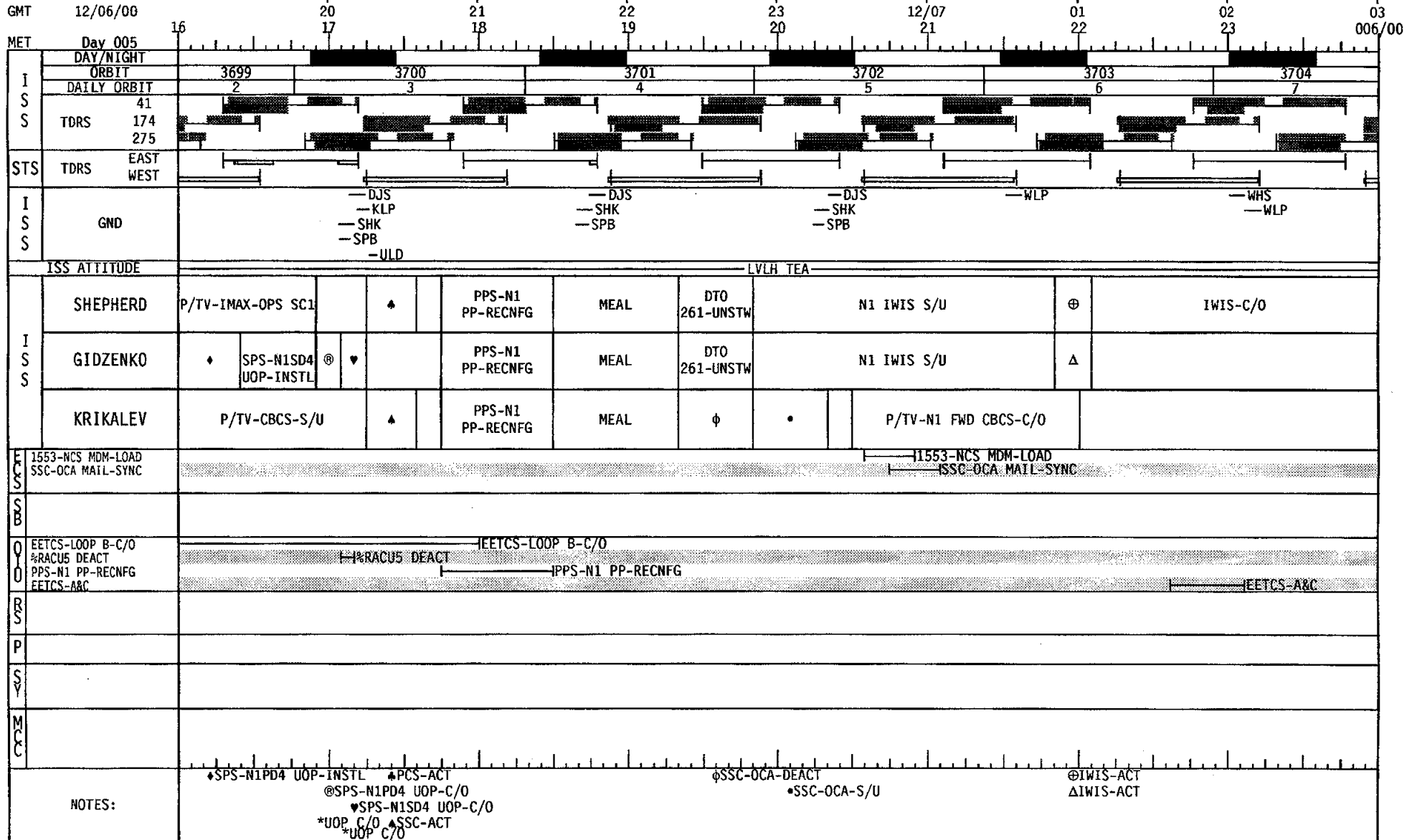
I S S	DAY/NIGHT	[Gantt chart showing day/night cycles]									
	ORBIT	3694	3695	3696	3697	3698	3699				
	DAILY ORBIT	12	13	14	15	1	2				
	TDRS	41 174 275	[Gantt chart showing TDRS activities]								
GND	---WHS ---DFR ---PPK ---USK ---DFR ---PPK ---ULD ---USK ---DJS ---KLP ---PPK ---HUSK ---DJS ---KLP ---ULD ---USK ---DJS ---KLP ---SHK ---HUSK										
S T S	EAST	[Gantt chart showing East TDRS]									
	WEST SPARE	[Gantt chart showing West TDRS]									
ISS ATTITUDE		85	86	87	88	89	90				

NOTES:

♥ASPIRIN
 φASPIRIN

φSTS/ISS-PMA3-INGR(J)
 •STS/ISS-SAFE
 ∇JOINT
 ◇STS/ISS-PMA3-INGR(J)
 *STS/ISS-SAFE
 ⊗WATER

STS-97 (FD07)



STS-97 (FD07)

GMT 12/06/00 20 21 22 23 12/07 01 02 03
 MET Day 005 16 17 18 19 20 21 22 23 006/00

S T S	CDR	JOINT OPS		EXERCISE-STS		JOINT OPS	MEAL-STS	WATER FILL INIT	JOINT OPS	WFT A I E T L R E L M R	JOINT OPS		▽	JOINT OPS		
	PLT	W F I A I N T L I E L T R	JOINT OPS		WATER FILL TERM	JOINT OPS		MEAL-STS	JOINT OPS				EXERCISE-STS			
I V A	MS2	◇	SPS-N1SD4 UOP-INSTL	*	▲	⊕	MEAL-STS				◆	R P M W S R U P	EETCS VIEW	⊗	R P M W S R D N	▼
E V A	MS1	P/TV-CBCS-S/U		JOINT OPS		MEAL-STS	EXERCISE-STS	P/TV-N1 FWD CBCS-C/O				Δ	P/TV25 OPS EXTERNAL	P/TV25 OPS EXTERNAL		
	MS3	EXERCISE-STS	JOINT OPS	VTR ACT	▲	JOINT OPS	MEAL-STS	JOINT OPS	N1 IWIS S/U		φ	IWIS-C/O				

M C S U M	EETCS-LOOP B-C/O	EETCS-LOOP B-C/O	
	%RACUS DEACT	%RACUS DEACT	
	PPS-N1 PP-RECNG	PPS-N1 PP-RECNG	
	1553-NCS MDM-LOAD	1553-NCS MDM-LOAD	
EETCS-A&C	EETCS-A&C		

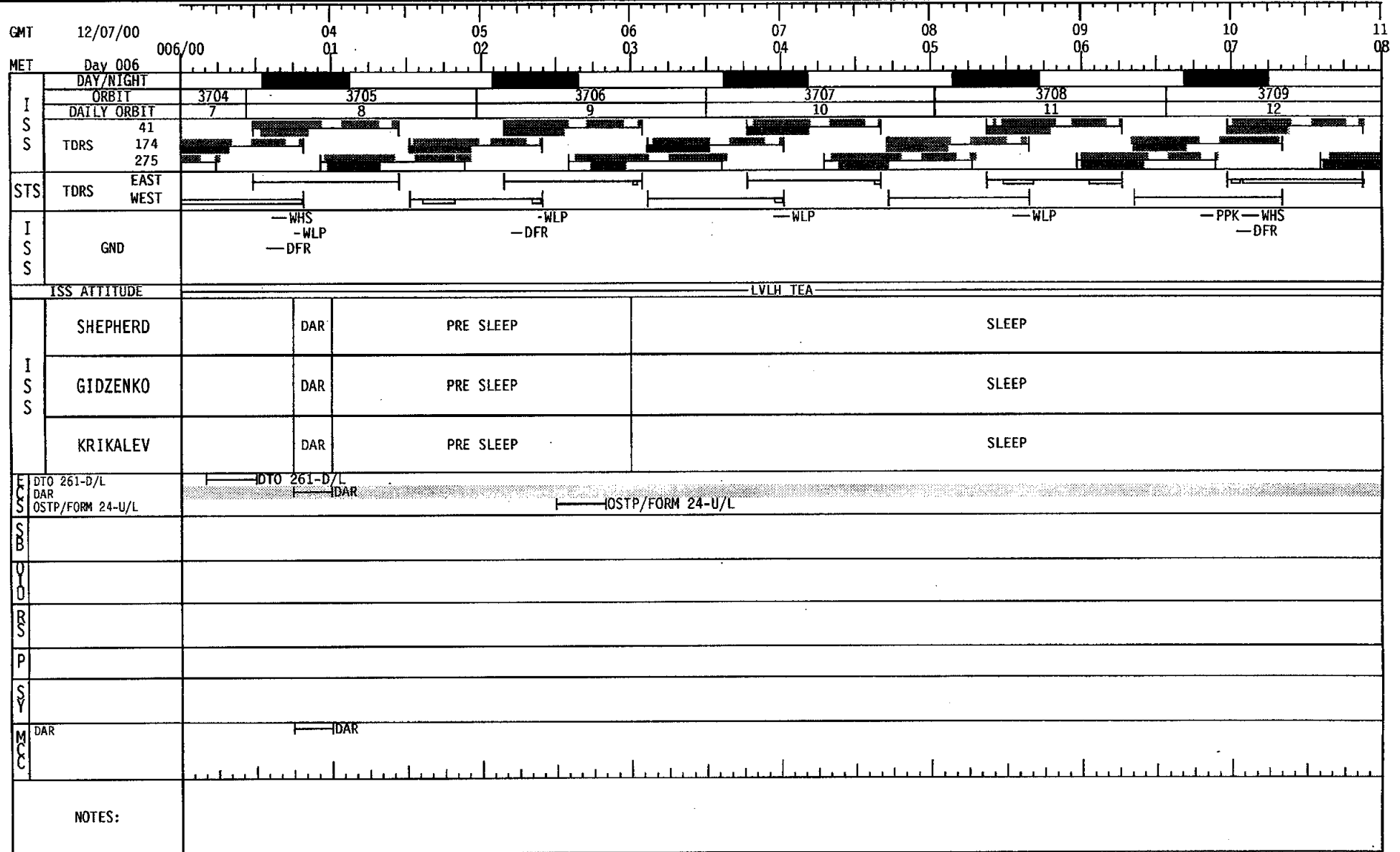
I S S	DAY/NIGHT	[Shaded bars indicating day/night cycle]						
	ORBIT	3699	3700	3701	3702	3703	3704	
	DAILY ORBIT	2	3	4	5	6	7	
	TDRS	41	174	275	[Shaded bars]	[Shaded bars]	[Shaded bars]	
	GND	-DJS -KLP -SHK -SPBULD		-DJS -SHK -SPB		-DJS -SHK -SPB -WLP		-WHS -WLP
S T S	TDRS	[Shaded bars]						
	EAST WEST SPARE	[Shaded bars]						
ISS ATTITUDE	ORBIT	90	91	92	93	94	95	

ISS ATTITUDE: LVLH TEA

NOTES:

- ◇SPS-N1PD4 UOP-INSTL
- ⊕PCS-ACT
- ▲VTR PLAYBACK
- *SPS-N1PD4 UOP-C/O
- ▲SPS-N1SD4 UOP-C/O
- *UOP C/O
- *UOP C/O
- φIWIS-ACT
- ◆SRMS HTR & MCIU
- ⊗EETCS-RADIATOR-DPLY
- ⊗EETCS-RADIATOR-DPLY
- ΔP/TV25 S/U EXTERNAL
- ▼XFER OPS

STS-97 (FD07)



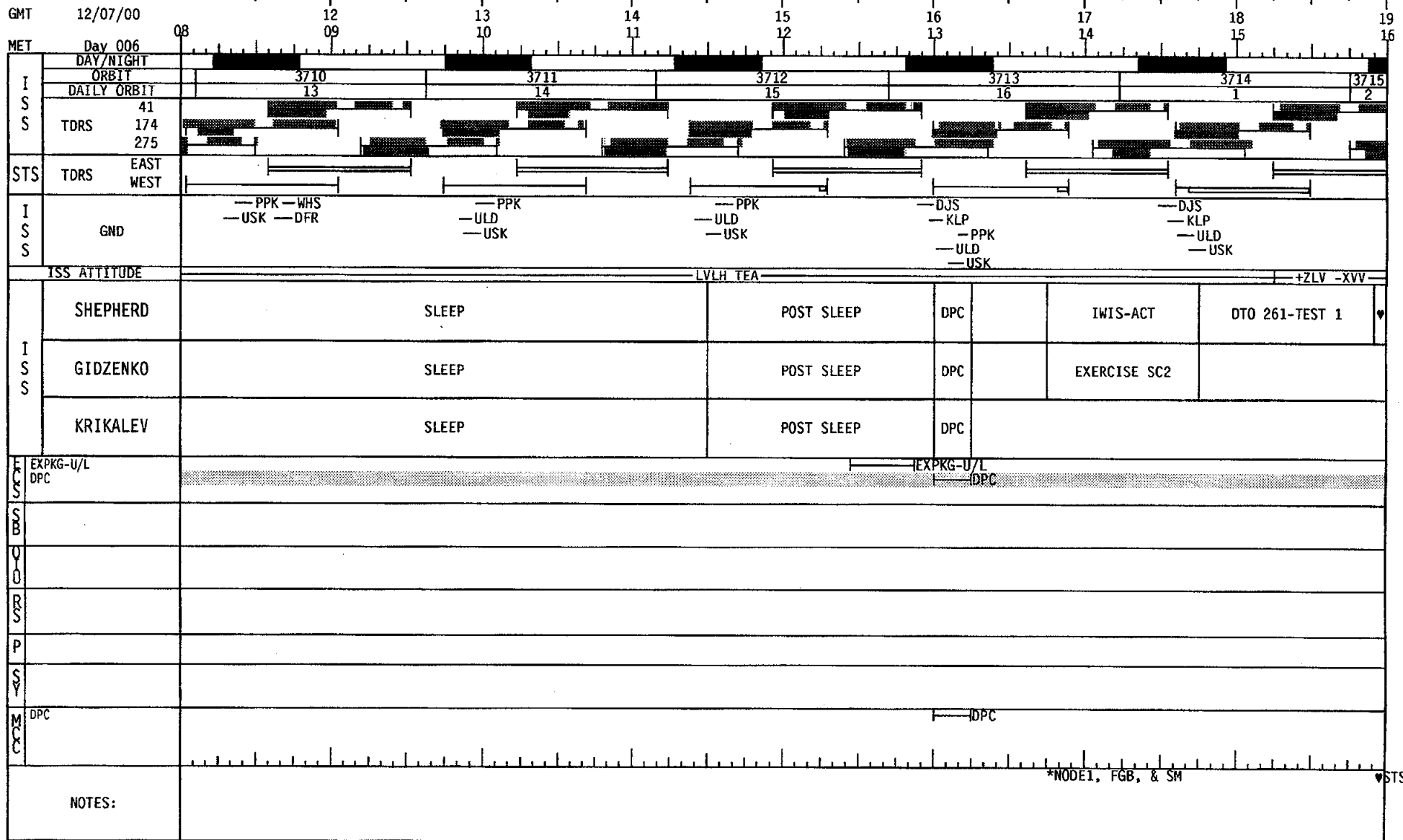
STS-97 (FD07)

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

S T S	CDR	PMC - OCA	PRE SLEEP-STS	SLEEP-STS			
	PLT		PRE SLEEP - GALLEY	SLEEP-STS			
I V A	MS2		PRE SLEEP-STS	SLEEP-STS			
E V A	MS1		PRE SLEEP-STS	SLEEP-STS			
	MS3		PRE SLEEP-STS	SLEEP-STS			
M I S S I O N	D10 261-D/L		D10 261-D/L				
	DAY/NIGHT						
I S S	ORBIT	3704	3705	3706	3707	3708	3709
	DAILY ORBIT	7	8	9	10	11	12
	TDRS 41						
	TDRS 174						
	TDRS 275						
GND		-WHS -WLP -DFR	-DFR	-WLP	-WLP	-WLP	-PPK -WHS -DFR
S T S	TDRS EAST						
	TDRS WEST SPARE						
ISS ATTITUDE	ORBIT	95	96	97	98	99	100
					LVLH TEA		
	NOTES:						

STS-97 (FD07)

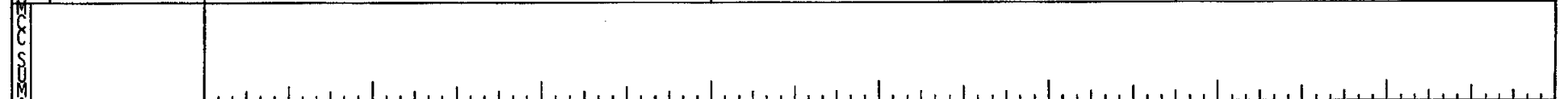
STS-97 (FD08)



STS-97 (FD07)	STS-97 (FD08)
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GMT	12/07/00	12	13	14	15	16	17	18	19
MET	Day 006	08	09	10	11	12	13	14	15

S T S	CDR	SLEEP-STS	POST SLEEP-STS	JOINT OPS	DTO 261-TEST 1	Δ
	PLT	SLEEP-STS	POST SLEEP - GALLEY	P/TV08 S/U DTO 261	DTO 261-TEST 1	φ
I V A	MS2	SLEEP-STS	POST SLEEP-STS		P/TV08 OPS DTO 261	•
E V A	MS1	SLEEP-STS	POST SLEEP-STS	EXERCISE-STS		JOINT OPS
	MS3	SLEEP-STS	POST SLEEP-STS	IWIS-ACT	DTO 261-TEST 1	∇



I S S	DAY/NIGHT	[Shaded bars indicating day/night cycle]										
	ORBIT	3710	3711	3712	3713	3714	3715					
	DAILY ORBIT	13	14	15	16	1	2					
	TDRS	41	[Shaded bars indicating TDRS activity]									
	GND	174	275	— PPK — WHS — PPK — USK — DFR — ULD — USK — PPK — DJS — ULD — KLP — USK — ULD — USK — USK								

S T S	TDRS EAST	[Shaded bars indicating TDRS activity]									
	WEST SPARE	[Shaded bars indicating TDRS activity]									
ORBIT	101	102	103	104	105	106					
ISS ATTITUDE	LVLH TEA					*NODE1, FGB, & SM ▲FES A OFF					+ZLV -XVV
NOTES:											ΔSTS/IS φJOINT •EXERC ∇JOINT

*Includes HTD 1404 LDRI Ops
 *Includes HTD 1404 LDRI Ops

STS-97 (FD08)

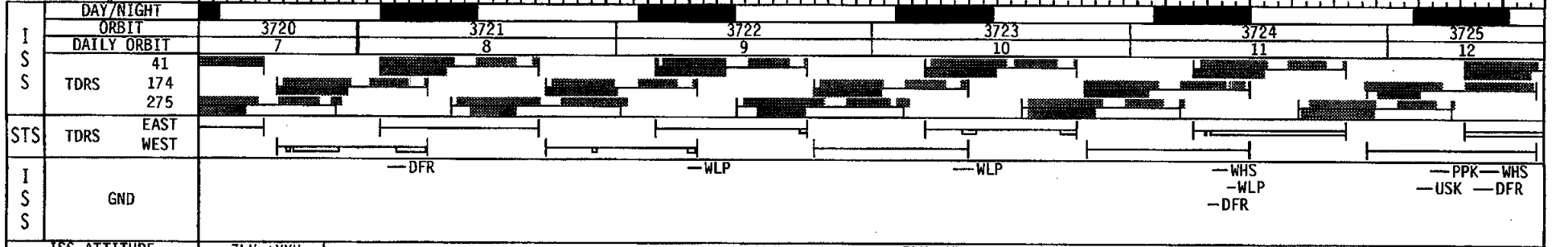
GMT		12/07/00		20		21		22		23		12/08		01		02		03			
MET		Day 006		16		17		18		19		20		21		22		23			
ISS	DAY/NIGHT	[Gantt chart showing day/night cycle]																			
	ORBIT	3715 3716 3717 3718 3719 3720																			
	DAILY ORBIT	2 3 4 5 6 7																			
STS	TDRS	[Gantt chart showing TDRS operations]																			
	EAST WEST	[Gantt chart showing East/West operations]																			
ISS	GND	-DJS -KLP -SHK -SPB -ULD -DJS -KLP -SHK -SPB -DJS -SHK -SPB -WLP -SHK -SPB -WHS -WLP -WHS -WLP -DFR																			
	ISS ATTITUDE	FD FLYARND -ZLV +YVV																			
ISS	SHEPHERD	◇	*		DTO 261-TEST 2		MEAL	★	CREW CONFERENCE	IWIS-SHUTDOWN		⊕									
	GIDZENKO				P/TV22 S/U INTERNAL		MEAL	◆	CREW CONFERENCE			⊗	EXERCISE SC2								
	KRIKALEV		▼				MEAL	△	CREW CONFERENCE			▲	EXERCISE SC3								
STS	SSC-OCA MAIL-SYNC	SSC-OCA MAIL-SYNC																			
	SSC-OCA MAIL-SYNC	SSC-OCA MAIL-SYNC																			
	SSC-OCA MAIL-SYNC	SSC-OCA MAIL-SYNC																			
	SSC-OCA MAIL-SYNC	SSC-OCA MAIL-SYNC																			
	SSC-OCA MAIL-SYNC	SSC-OCA MAIL-SYNC																			
NOTES:		◇STS/ISS-CMG-TAGUP ★ECS-CABLE-RECONFG ▼ECS-CABLE-RECONFG						★STS/ISS-CREW-PHOTO ◆STS/ISS-CREW-PHOTO △STS/ISS-CREW-PHOTO						⊕STS/ISS-PMA3-EGR(J) ⊗STS/ISS-PMA3-EGR(J) ▲STS/ISS-PMA3-EGR(J)							

STS-97 (FD08)

GMT		12/07/00		20		21		22		23		12/08		01		02		03	
MET		Day 006		16		17		18		19		20		21		22		23	
STS	CDR	φ	JOINT OPS	DTO 261-TEST 2		MEAL-STs	•	CREW CONFERENCE	JOINT OPS	EXERCISE-STs	▽	◇	STS-ODS-LK CK	*					
	PLT		JOINT OPS	DTO 261-TEST 2	*	MEAL-STs	⊕	CREW CONFERENCE	EXERCISE-STs	JOINT OPS	♦		STS-ODS-LK CK	⊗					
I	MS2	EXERCISE-STs		P/TV08 OPS DTO 261		MEAL-STs	♥	CREW CONFERENCE			Δ	▲	STS-ODS-LK CK	φ					
EVA	MS1	JOINT OPS			CPS RH/ EQU WT O	MEAL-STs	•	CREW CONFERENCE	JOINT OPS		VTR ACT	▽	◇	AUX BATT CHG INIT	*				
	MS3	JOINT OPS	EXERCISE-STs	JOINT OPS		MEAL-STs	▲	CREW CONFERENCE	IWIS-SHUTDOWN	JOINT OPS	⊕	♦	AUX BATT CHG INIT	⊗					
DTO 261-D/L		DTO 261-D/L																	
ISS	DAY/NIGHT	[Gantt chart showing day/night cycles]																	
	ORBIT	3715, 3716, 3717, 3718, 3719, 3720																	
	DAILY ORBIT	2, 3, 4, 5, 6, 7																	
	TDRS	41, 174, 275 [Gantt chart showing TDRS activities]																	
	GND	-DJS, -KLP, -SHK, -SPB, -ULD [Gantt chart showing ground activities]																	
STS	TDRS	EAST, WEST, SPARE [Gantt chart showing TDRS activities]																	
	ORBIT	106, 107, 108, 109, 110, 111																	
ISS ATTITUDE		FD, FLYARND, -ZLV +YVV																	
NOTES:		φSTS/ISS-CMG-TAGUP *T2-PVR PHOTOGRAMMETRY *FES A ON •STS/ISS-CREW-PHOTO ⊕STS/ISS-CREW-PHOTO ♥STS/ISS-CREW-PHOTO ♦STS/ISS-CREW-PHOTO ▲STS/ISS-CREW-PHOTO VSTS/ISS-15.0-REPRESS ⊗STS/ISS-PMA3-EGR(J) ⊕UNDOCK 1 ♦STS/ISS-15.0-REPRESS φUNDOCK 1 ΔXFER OPS-TAGUP ◊VTR PLAYBACK *UNDOCK 1 *UNDOCK 1 ▲EMU INSTALLATION @UNDOCK 1 ⊕EMU BATT CHG INIT																	

STS-97 (FD08)

GMT 12/08/00
 MET Day 007 007/00



ISS	SHEPHERD		DAR	PRE SLEEP	SLEEP
	GIDZENKO	EXERCISE SC2	DAR	PRE SLEEP	SLEEP
	KRIKALEV		DAR	PRE SLEEP	SLEEP

ISS	DAR		DAR		
	OSTP/FORM 24-U/L			OSTP/FORM 24-U/L	
ISS	DAR		DAR		
	OSTP/FORM 24-U/L				

NOTES:

STS-97 (FD08)

GMT 12/08/00 04 05 06 07 08 09 10 11
 MET Day 007 007/00 01 02 03 04 05 06 07 08

S T S	CDR	▼	PRE SLEEP-STS	PMC - OCA	PRE SLEEP-STS	SLEEP-STS
	PLT	Δ	PRE SLEEP - GALLEY			SLEEP-STS
I V A	MS2	▲	PRE SLEEP-STS			SLEEP-STS
E V A	MS1	φ	PRE SLEEP-STS			SLEEP-STS
	MS3	•	PRE SLEEP-STS			SLEEP-STS

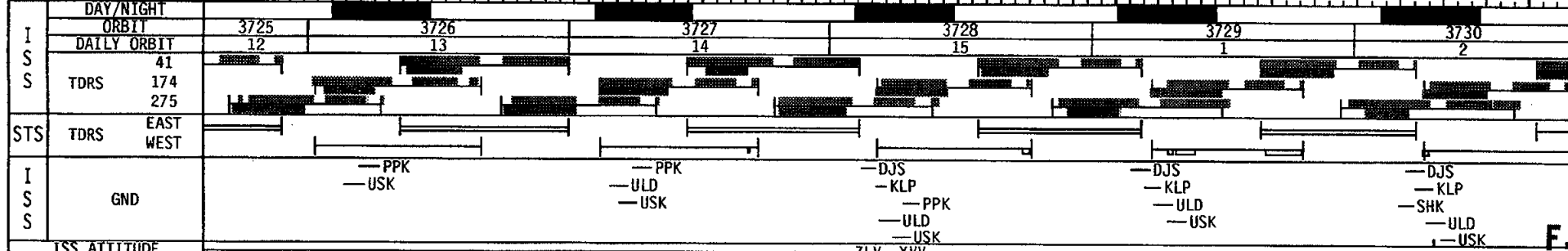
STS-005-LK CK

I S S	DAY/NIGHT	[Shaded bars]													
	ORBIT	3720	3721	3722	3723	3724	3725								
	DAILY ORBIT	7	8	9	10	11	12								
	TDRS	41	174	275	[Shaded bars]										
	GND	-DFR			-WLP			-WLP			-WHS -WLP -DFR			-PPK -WHS -USK -DFR	

S T S	TDRS	EAST WEST SPARE	[Shaded bars]											
	ORBIT	111	112	113	114	115	116							
ISS ATTITUDE			-ZLV +YVV									-ZLV -XVV		
NOTES:			▼UNDOCK TAGUP ΔUNDOCK TAGUP ▲UNDOCK TAGUP φUNDOCK TAGUP •UNDOCK TAGUP											

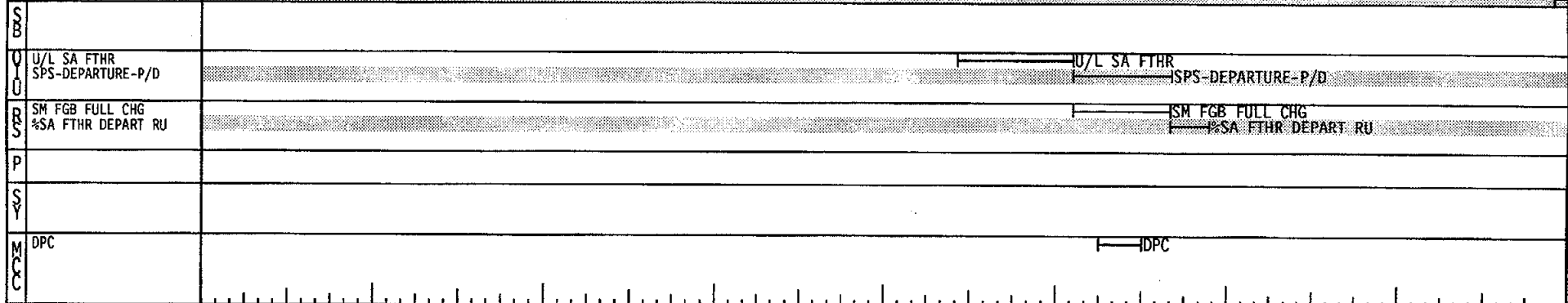
STS-97 (FD08) **STS-97 (FD09)**

GMT 12/08/00 12 13 14 15 16 17 18 19
 MET Day 007 08 09 10 11 12 13 14 15 16



ISS ATTITUDE -ZLV -XVV

ISS	SHEPHERD	SLEEP	POST SLEEP	▽	DPC	◇	UNDOCK	EXERCISE SCHEDULE
	GIDZENKO	SLEEP	POST SLEEP	*	DPC	LOCK SAW		
	KRIKALEV	SLEEP	POST SLEEP	⊕	DPC			



NOTES: VCREW TAGUP OSTS/ISS-UNDOCK-MNVR *ACS-DEPART-CNFG
*CREW TAGUP *FEATHER US SA
@CREW TAGUP
*INHIB BATT CYCL *FEATHER RUS SAW ***7/15:13 (SR-17MIN)**

STS-97 (FD08)	STS-97 (FD09)
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GMT 12/08/00 08 12 13 14 15 16 17 18 19
 MET Day 007 09 10 11 12 13 14 15 16

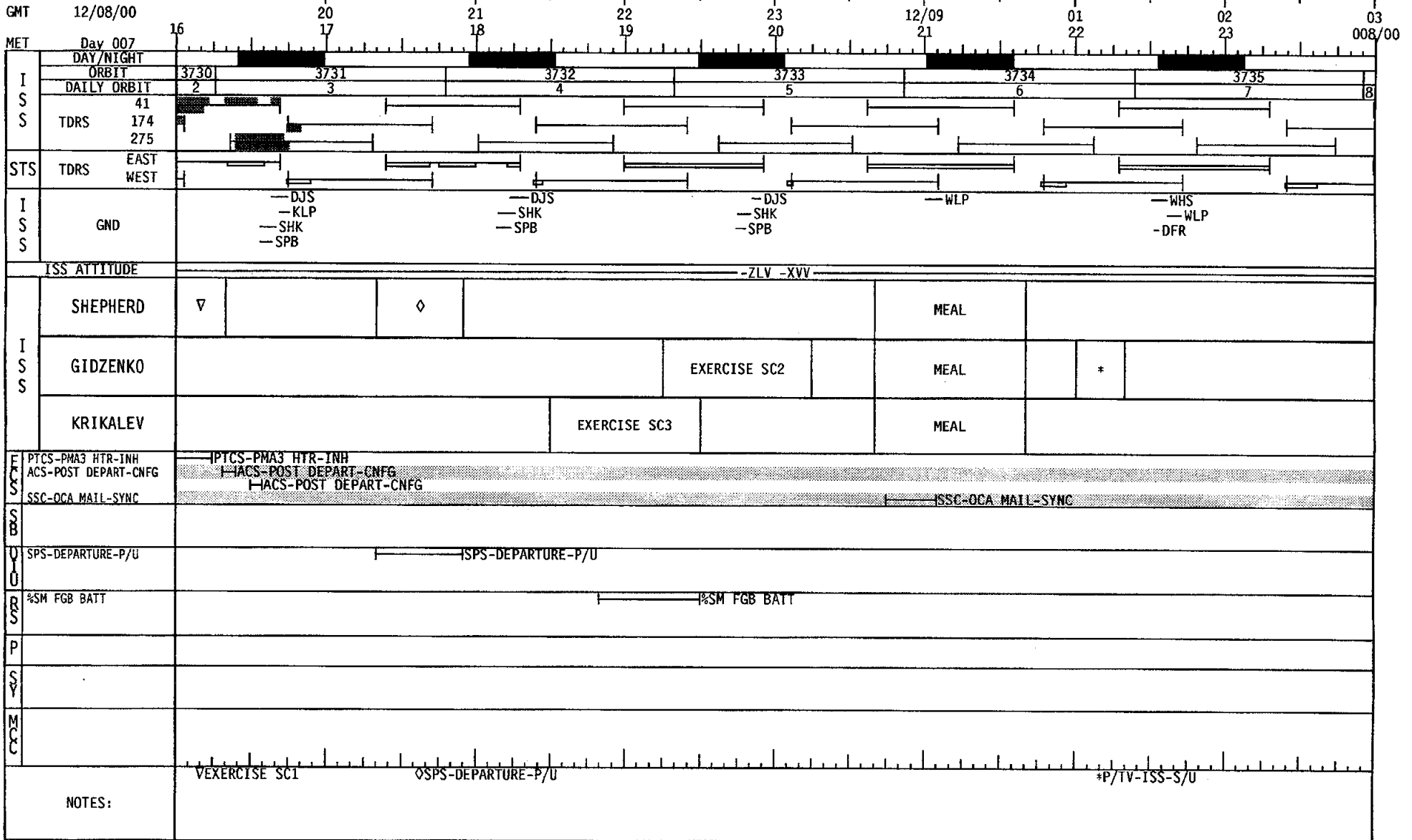
S T S	CDR	SLEEP-STS	POST SLEEP-STS	♦	®	▼	STS-UNDOCK-OPS	Δ	F I N A L S E P
	PLT	SLEEP-STS	POST SLEEP - GALLEY				RNDZ PGSC S/U	STS-UNDOCK-OPS	
I V A	MS2	SLEEP-STS	POST SLEEP-STS				P/TV20 S/U DOCK/UNDK	P/TV20 OPS DOCK/UNDK	N D O C K *
	MS1	SLEEP-STS	POST SLEEP-STS			φ	P/TV20 S/U DOCK/UNDK	P/TV20 OPS DOCK/UNDK	
E V A	MS3	SLEEP-STS	POST SLEEP-STS				AUX BATT CHG TERM	STS-UNDOCK-OPS	•

M C S S U M	STS-ODS-LK CK	STS-ODS-LK CK							
	C&DH-PRE UNDOCK-CNFG	C&DH-PRE UNDOCK-CNFG							
	SM FGB FULL CHG						SM FGB FULL CHG		
	SPS-DEPARTURE-P/D						SPS-DEPARTURE-P/D		
	%SA FTHR DEPART RU						%SA FTHR DEPART RU		
	ACS-PRE DEPART-CNFG						ACS-PRE DEPART-CNFG		
	C&DH-UNDOCK-CNFG						C&DH-UNDOCK-CNFG		
	SA FEATHER DPART US						SA FEATHER DPART US		
	ACS-DEPART-CNFG						ACS-DEPART-CNFG		
	SUN TRACK						SUN TRACK		
	C&DH-POST UNDK-CNFG						C&DH-POST UNDK-CNFG		
	PTCS-PMA3 HTR-INH						PTCS-PMA3 HTR-INH		

I S S	DAY/NIGHT	ORBIT	3725	3726	3727	3728	3729	3730
	DAILY ORBIT	41	12	13	14	15	1	2
	TDRS	174						
	GND		—PPK —USK	—PPK —ULD —USK	—DJS —KLP —PPK —USK	—DJS —KLP —ULD —USK	—DJS —KLP —SHK —USK	
S T S	TDRS	EAST						
	WEST SPARE							
	ORBIT	116	117	118	119	120	121	

ISS ATTITUDE	-ZLV -XVV							
NOTES:						♦P/TV19 S/U C/L CMR	@STS/ISS-UNDOCK-MNVR	▲STS-FLYAROUN
						*INHIB BATT CYCL	▼PWR UP GRP B	●STS-FLYAROUN
						φP/TV19 S/U C/L CMR		*7/15:13 (SR-17MI
						*FEATHER RUS SAW		
						*FEATHER US SA		

STS-97 (FD09)



STS-97 (FD09)

GMT		12/08/00		20		21		22		23		12/09		01		02		03			
MET		Day 007		16		17		18		19		20		21		22		23			
S T S	CDR	*	⊕	EXERCISE-STS				I M U	GPS 2	OPS TEST	GPS P/D	VTR ACT	♦	MEAL-STS				OFF DUTY			
	PLT	@	⊕	GP RW PR D B N	EXERCISE-STS				▼					MEAL-STS				OFF DUTY			
I V A	MS2	Δ	⊕	VHF DEACT & STOW	▲	P/TV02 S/U PAO		φ	EXERCISE-STS				MEAL-STS				OFF DUTY				
E V A	MS1	•	⊕	C/L CAMERA REMOVE	▼	EXERCISE-STS				◇	MEAL-STS				*	OFF DUTY		▲	OFF DUTY		
	MS3	⊕	⊕	OD IE UA CT	EXERCISE-STS				♦	MEAL-STS				OFF DUTY							
M C S U M	PTCS-PMA3 HTR-INH		PTCS-PMA3 HTR-INH		IACS-POST DEPART-CNFG		IACS-POST DEPART-CNFG		ISPS-DEPARTURE-P/U		ISM FGB BATT										
	ACS-POST DEPART-CNFG		IACS-POST DEPART-CNFG		IACS-POST DEPART-CNFG		IACS-POST DEPART-CNFG		ISPS-DEPARTURE-P/U		ISM FGB BATT										
I S S	DAY/NIGHT	[Gantt chart showing day/night cycles]																			
	ORBIT	3730	3731				3732				3733				3734				3735		
	DAILY ORBIT	2	3				4				5				6				7		
	TDRS	41	[Gantt chart]				[Gantt chart]				[Gantt chart]				[Gantt chart]				[Gantt chart]		
GND		[Gantt chart showing ground activities: -DJS, -KLP, -SHK, -SPB, -WLP, -WHS, -DFR]																			
	TDRS	EAST	[Gantt chart]																		
S T S	WEST	[Gantt chart]																			
	SPARE	[Gantt chart]																			
ORBIT	121	122				123				124				125				126			
ISS ATTITUDE	-ZLV -XVV																				
NOTES:	*STS-FLYAROUND φP/TV02 IN CABIN PAO ♦VTR PLAYBACK *SPLY/WSTE DUMP INIT *SPLY/WSTE DUMP TERM																				
	@STS-H2O DMP-MNVR ▼MCIU FILTER CLEAN ◊EMU BATT CHRG TERM																				
@STS-FLYAROUND ▼CWC CONDENSATE STOW ♦EMU BATT CHRG TERM																					
ΔP/TV20 OPS DOCK/UNDK *TERM																					
▲COMM STRING C/O PT.A *TERM																					
P/TV20 OPS DOCK/UNDK																					
@STS-FLYAROUND																					

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STS-97 DAP TABLE

I

STS-97
DAP TABLE

STS-97
DAP TABLE

DAP	PURPOSE
A1	- NOMINAL
A2	- PTC
A3	- GG
A4	- PRE/POST DEPLOY
A5	- LOSS OF VERN (ALL)
A6	- LOSS OF VERN (TAIL ONLY)
A7	- RNDZ
A8	- TERMINAL PHASE
A9	- PROX OPS/FLYAROUND
A10	- DOCKING
A12	- MATED STACK (RMS OPS)
A13	- FAILED CAPTURE
A14	- DTO 261
A15	- PRCS TEST (DTO 257)

DAP	PURPOSE
B1	- OMS/RCS BURNS
B2	- LOSS OF VERN (TAIL ONLY)
B3	- LOSS OF VERN (ALL)
B4	- DTO 261 AFT
B5	- DTO 261 YAW 2
B5*	- COAS/HUD CAL
B6	- DTO 261 ROLL
B7	- RNDZ
B8	- TERMINAL PHASE
B9	- PROX OPS/FLYAROUND
B10	- DOCKING
B11	- REBOOST
B12	- MATED STACK (RMS OPS)
B13	- FAILED CAPTURE
B14	- DTO 261 PITCH
B15	- DTO 261 YAW 1

* Alternate DAP available for contingency

UNIV PTG	
TGT ID	= 1 Orbiting Vehicle = 2 Earth ctr = 3 Earth tgt Input LAT (± 90) LON (± 180 , + = East) 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 4A INITIAL
	= 2 P6 RMS LOW HOVER
	= 3 P6 RMS INITIAL TILT
	= 4 P6 RMS ARC COMPLETE
	= 5 P6 RMS OVERNIGHT
	= 6 P6 RMS INTERMEDIATE
	= 7 P6 RMS PREMATE
	= 8 P6 RMS INSTALLED
	= 9 4A FINAL (SA/PVR DEPLOYED) & REBOOST

STS-97 DAP A1 - 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	0.10
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

NOTE: **BOLD-ITALIC** indicate a change from I-load

STS-97 DAP A9 - A15 CONFIGURATIONS

	ITEM #	A9	A10	A11	A12	A13	A14	A15
PRI					**			
ROT RATE	10(50)	0.1300	0.0500	0.2000	0.1000	0.0500	0.1000	0.1000
ATT DB	11(51)	1.00	0.50	5.00	5.00	1.00	40.00	40.00
RATE DB	12(52)	0.10	0.10	0.20	0.20	0.10	5.00	5.00
ROT PLS	13(53)	0.10	0.10	0.10	0.04	0.10	0.04	0.04
COMP	14(54)	.000	.000	.000	.000	.000	.000	.000
P OPTION	15(55)	TAIL	TAIL	ALL	TAIL	TAIL	TAIL	ALL
Y OPTION	16(56)	TAIL	TAIL	ALL	TAIL	TAIL	TAIL	ALL
TRAN PLS	17(57)	0.05	0.05	0.10	0.01	0.05	0.10	0.10
ALT					**			
RATE DB	18(58)	0.100	0.100	0.200	0.070	0.200	0.070	5.000
JET OPT	19(59)	ALL	ALL	ALL	TAIL	ALL	TAIL	ALL
# JETS	20(60)	2	2	2	2	2	2	1
ON TIME	21(61)	0.08	0.08	0.08	0.08	0.08	0.16	0.08
DELAY	22(62)	0.00	0.00	0.00	12.00	0.00	5.68	0.00
VERN								
ROT RATE	23(63)	0.1300	0.0500	0.2000	0.1000	0.0500	0.0500	0.1000
ATT DB	24(64)	1.000	0.500	1.000	3.000	1.000	40.000	40.000
RATE DB	25(65)	.020	.020	.020	.050	.020	.500	.500
ROT PLS	26(66)	0.050	0.050	0.010	0.002	0.050	0.002	0.001
COMP	27(67)	.000	.000	.000	.000	.000	.000	.000
CNTL ACC	28(68)	0	0	0	1*	0	0	0
PURPOSE		PROX OPS/ FLYAROUND	DOCKING		MATED STACK (RMS OPS)	FAILED CAPTURE	DTO 261 PITCH	PRCS TEST (DTO 257)

NOTE: **BOLD-ITALIC** indicate a change from I-load

*CNTL ACCEL settings will vary from 1, for the initial mated stack config, through 9 dependent on the RMS positioning of P6. CNTL ACCEL 1 should be loaded for the initial 4A post-docked configuration

**A12/B12 PRCS/ALT is not designed to be used post-docking until the successful completion of DTO-257 and until P6 has been positioned to low hover or above. Loads analyses and control performance are not certified for PRCS outside this stated configuration

STS-97 DAP B1 – B8 CONFIGURATIONS

	ITEM #	B1	B2	B3	B4	B5	B5*	B6	B7	B8
PRI										
ROT RATE	30(50)	0.5000	0.2000	0.2000	0.1000	0.1000	0.2000	0.1000	0.5000	0.0500
ATT DB	31(51)	3.00	3.00	3.00	40.00	40.00	3.00	40.00	2.00	2.00
RATE DB	32(52)	0.20	0.20	0.20	5.00	5.00	0.20	5.00	0.20	0.10
ROT PLS	33(53)	0.04	0.04	0.04	0.07	0.06	0.40	0.20	0.04	0.04
COMP	34(54)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000
P OPTION	35(55)	ALL	TAIL	ALL	TAIL	TAIL	TAIL	TAIL	ALL	ALL
Y OPTION	36(56)	ALL	TAIL	ALL	TAIL	TAIL	TAIL	TAIL	ALL	ALL
TRAN PLS	37(57)	0.10	0.02	0.02	0.04	0.03	0.02	0.03	0.05	0.05
ALT										
RATE DB	38(58)	0.200	0.070	0.070	0.070	0.070	0.200	0.070	0.100	0.100
JET OPT	39(59)	ALL	TAIL	ALL	TAIL	TAIL	ALL	TAIL	ALL	ALL
# JETS	40(60)	2	1	1	1	1	2	2	2	2
ON TIME	41(61)	0.08	0.08	0.08	0.24	0.24	0.08	0.16	0.08	0.08
DELAY	42(62)	0.00	0.00	0.00	1.68	0.00	0.00	1.04	0.00	0.00
VERN										
ROT RATE	43(63)	0.2000	0.2000	0.2000	0.0500	0.0500	0.0160	0.0500	0.2000	0.0500
ATT DB	44(64)	1.000	1.000	1.000	40.00	40.00	0.033	40.00	1.000	1.000
RATE DB	45(65)	.020	.020	.020	.500	.500	.020	.500	.020	.020
ROT PLS	46(66)	0.002	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	.000
CNTL ACC	48(68)	0	0	0	0	0	0	0	0	0
PURPOSE		OMS/RCS BURNS	LOSS OF VERN (TAIL ONLY)	LOSS OF VERN (ALL)	DTO 261 AFT	DTO 261 YAW 2	COAS/ HUD CAL	DTO 261 ROLL	RNDZ	TERMINAL PHASE

NOTE: **BOLD-ITALIC** indicate a change from I-load
 *Alternate DAP available for contingency

STS-97 DAP B9 - B15 CONFIGURATIONS

	ITEM #	B9	B10	B11	B12	B13	B14	B15
PRI					**			
ROT RATE	30(50)	0.1300	0.0500	0.0500	0.1000	0.0500	0.1000	0.1000
ATT DB	31(51)	1.00	0.50	40.00	5.00	1.00	40.00	40.00
RATE DB	32(52)	0.10	0.10	5.00	0.20	0.10	5.00	5.00
ROT PLS	33(53)	0.04	0.04	0.04	0.04	0.04	0.13	0.07
COMP	34(54)	.000	0.000	0.000	0.000	0.000	0.000	0.000
P OPTION	35(55)	TAIL	TAIL	TAIL	TAIL	TAIL	TAIL	TAIL
Y OPTION	36(56)	TAIL	TAIL	TAIL	TAIL	TAIL	TAIL	TAIL
TRAN PLS	37(57)	0.01	0.01	1.00	0.01	0.01	0.03	0.03
ALT					**			
RATE DB	38(58)	0.100	0.100	0.200	0.070	0.200	0.070	0.070
JET OPT	39(59)	ALL	ALL	TAIL	TAIL	ALL	TAIL	TAIL
# JETS	40(60)	2	2	2	2	2	2	1
ON TIME	41(61)	0.08	0.08	0.08	0.08	0.08	0.32	0.24
DELAY	42(62)	0.00	0.00	12.00	12.00	0.00	5.68	1.68
VERN								
ROT RATE	43(63)	0.1300	0.0500	0.1000	0.1000	0.0500	0.0500	0.0500
ATT DB	44(64)	1.000	0.500	5.000	3.000	1.000	40.00	40.00
RATE DB	45(65)	.020	.020	.200	.050	.020	.500	.500
ROT PLS	46(66)	0.020	0.020	0.020	0.002	0.020	0.002	0.002
COMP	47(67)	.000	.000	.000	.000	.000	.000	.000
CNTL ACC	48(68)	0	0	9	1*	0	0	0
PURPOSE		PROX OPS/ FLYAROUND	DOCKING	REBOOST	MATED STACK (RMS OPS)	FAILED CAPTURE	DTO 261 PITCH	DTO 261 YAW 1

NOTE: **BOLD-ITALIC** indicate a change from I-load

*CNTL ACCEL settings will vary from 1, for the initial mated stack config, through 9 dependent on the RMS positioning of P6. CNTL ACCEL 1 should be loaded for the initial 4A post-docked configuration

**A12/B12 PRCS/ALT is not designed to be used post-docking until the successful completion of DTO-257 and until P6 has been positioned to low hover or above. Loads analyses and control performance are not certified for PRCS outside this stated configuration

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ATTITUDE TIMELINE

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Attitude Timeline

ATTITUDE
TIMELINE

MET/GMT	MNVR OPTION	DAP	E/S	REF ATT/REMARKS	EVENT
1 000/00:30:00 MET 336/03:30:30 GMT	INRTL R=307.00 MNVR P=145.00 Y=355.00	TRN RATE 0.5000 AUTO DB AT 3.50 R 316 PRI DB RT 0.20 P 54	SUN R 0 P 54	LVLH EQUIV R : 180 P : 343 Y : 0	OMS 2 TV Roll 180 TIG 0/00:47
2 000/00:45:00 MET 336/03:45:30 GMT	STS-97 Flt Pln FINAL			GMTLO 2000 DEC 01 GMT 03:00:30.0	FD 3 RNDZ RGS REQ'D FOR DOCKING
3 000/01:12:00 MET 19:50 336/04:12:30 GMT 20:20	TGT=2 BV=3 P= 90.00 Y= 0.00 OM=270.00 WHEN AVAILABLE, DAP:VERN	A6 RATE 0.2000 AUTO DB AT 5.00 R 0 ALT DB RT 0.070 P 90	EARTH R 0 P 90	LVLH R= 0.00 P=180.00 Y= 90.00	-ZLV +YVV For SOPA
4 000/03:25:00 MET 34:53 336/06:25:30 GMT 35:23	INRTL R=148.00 MNVR P= 47.00 Y=335.00	B1 RATE 0.2000 AUTO DB AT 1.000 R 156 VERN DB RT 0.020 P 68	SUN R 156 P 68	LVLH EQUIV R : 180 P : 343 Y : 0	NC-1 2 ENG OMS TV Roll 180 TIG 0/03:42:50 Posigrade
5 000/03:50:00 MET 04:04:59 336/06:50:30 GMT 07:05:29	TGT=2 BV=3 P= 90.00 Y= 0.00 OM= 0.00 WHEN IN ATT. A/AUTO/VERN	A6 RATE 0.2000 AUTO DB AT 5.00 R 0 ALT DB RT 0.070 P 90	EARTH R 0 P 90	LVLH R= 0.00 P=180.00 Y= 0.00	-ZLV -XVV Crew Sleep
6 000/15:20:00 MET 34:38 336/18:20:30 GMT 35:08	INRTL R=147.00 MNVR P= 43.00 Y=330.00 Post Burn, DAP: A1/VERN	B1 RATE 0.2000 AUTO DB AT 1.000 R 158 VERN DB RT 0.020 P 65	SUN R 158 P 65	LVLH EQUIV R : 179 P : 343 Y : 355	NC-2 Right OMS TV Roll 180 TIG 0/15:38 Posigrade
7 000/15:45:00 MET 59:35 336/18:45:30 GMT 19:00:05	TGT=2 BV=3 P= 90.00 Y= 0.00 OM= 0.00 WHEN IN ATT. A/AUTO/VERN	A6 RATE 0.2000 AUTO DB AT 5.00 R 360 ALT DB RT 0.070 P 90	EARTH R 360 P 90	LVLH R= 0.00 P=180.00 Y= 0.00	-ZLV -XVV
8 000/19:45:00 MET 336/22:45:30 GMT				TIG 0/19:45	NPC Multi-Axis
9 000/19:50:00 MET 57:30 336/22:50:30 GMT 58:00	TGT=2 BV=3 P= 90.00 Y= 0.00 OM=270.00 WHEN IN ATT. A/AUTO/VERN	A6 RATE 0.2000 AUTO DB AT 5.00 R 0 ALT DB RT 0.070 P 90	EARTH R 0 P 90	LVLH R= 0.00 P=180.00 Y= 90.00	-ZLV +YVV Waste Dump
10 001/00:15:00 MET 25:24 337/03:15:30 GMT 25:54	INRTL R=150.00 MNVR P= 46.00 Y=333.00 Post Burn, DAP: A1/VERN	B1 RATE 0.2000 AUTO DB AT 1.000 R 154 VERN DB RT 0.020 P 66	SUN R 154 P 66	LVLH EQUIV R : 180 P : 343 Y : 0	NC-3 2 ENG OMS TV Roll 180 TIG 1/00:35:00
11 001/01:40:00 MET 54:56 337/04:40:30 GMT 55:26	TGT=2 BV=3 P= 90.00 Y= 0.00 OM= 0.00 WHEN IN ATT. A/AUTO/VERN	A6 RATE 0.2000 AUTO DB AT 5.00 R 360 ALT DB RT 0.070 P 90	EARTH R 360 P 90	LVLH R= 0.00 P=180.00 Y= 0.00	-ZLV -XVV Crew Sleep
12 001/12:12:34 MET 337/15:13:04 GMT				TIG 1/12:12:34	NH

*** ALL ATTITUDES IN MEAN OF 1950 ***
*** PYR EULER SEQUENCE ***

Attitude Timeline

MET/GMT	MNVR OPTION	DAP	E/S	REF ATT/REMARKS	EVENT
13 001/12:30:00 MET 42:13 337/15:30:30 GMT 42:43	INRTL R=327.00 MNVR P= 34.00 Y=338.00 DAP: A7/B7	B1 RATE 0.2000 AUTO DB AT 1.000 VERN DB RT 0.020	SUN R 334 P 75	LVLH EQUIV R : 0 P : 17 Y : 0	NC-4 2 ENG OMS TV Roll 0 TIG 1/12:43
14 001/12:45:00 MET 48:50 337/15:45:30 GMT 49:20	TGT=2 BV=1 P= 0.00 Y= 0.00 OM= 0.00 WHEN IN ATT, DAP:A7/VERN	B7 RATE 0.5000 AUTO DB AT 2.00 ALT DB RT 0.100	EARTH R 335 P 0	LVLH R= 0.00 P=270.00 Y= 0.00	-Z TGT Track
15 001/12:53:00 MET 13:24:15 337/15:53:30 GMT 16:24:45	TGT=2 BV=5 P=345.00 Y= 0.00 OM= 0.00	A7 RATE 0.0080 AUTO DB AT 1.000 VERN DB RT 0.020	EARTH R 180 P 15	LVLH R= 0.00 P=285.00 Y= 0.00	-Z TGT Track
16 001/13:25:00 MET 45:50 337/16:25:30 GMT 46:20	TGT=2 BV=1 P= 0.00 Y= 0.00 OM= 0.00	A7 RATE 0.0120 AUTO DB AT 1.000 VERN DB RT 0.020	EARTH R 225 P 0	LVLH R= 0.00 P=270.00 Y= 0.00	-Z TGT Track
17 001/14:03:00 MET 08:05 337/17:03:30 GMT 08:35	INRTL R=327.00 MNVR P= 31.00 Y=334.00	A7 RATE 0.2000 AUTO DB AT 2.00 ALT DB RT 0.100	SUN R 334 P 73	LVLH EQUIV R: 1 P: 17 Y: 355	TI Left OMS TV Roll 0 TIG 1/14:14:55
18 001/14:24:00 MET 337/17:24:30 GMT	TGT=2 BV=5 P=350.00 Y= 0.00 OM= 0.00 WHEN IN ATT, DAP:A7/VERN	B7 RATE 0.5000 AUTO DB AT 2.00 ALT DB RT 0.100			-Z TGT Track
19 001/14:28:00 MET 32:05 337/17:28:30 GMT 32:35	*** MNVR INTERRUPT *** TGT=2 BV=5 P=340.00 Y= 0.00 OM= 0.00	A7 RATE 0.0120 AUTO DB AT 2.00 ALT DB RT 0.100	EARTH R 180 P 20	LVLH R= 0.00 P=290.00 Y= 0.00	-Z TGT Track
20 001/14:42:00 MET 51:16 337/17:42:30 GMT 51:46	TGT=2 BV=5 P=330.00 Y= 0.00 OM= 0.00	A7 RATE 0.0180 AUTO DB AT 1.000 VERN DB RT 0.020	EARTH R 180 P 30	LVLH R= 0.00 P=300.00 Y= 0.00	-Z TGT Track
21 001/14:52:00 MET 15:01:16 337/17:52:30 GMT 18:01:46	TGT=2 BV=5 P=320.00 Y= 0.00 OM= 0.00	A7 RATE 0.0180 AUTO DB AT 1.000 VERN DB RT 0.020	EARTH R 180 P 40	LVLH R= 0.00 P=310.00 Y= 0.00	-Z TGT Track
22 001/15:01:30 MET 16:00 337/18:02:00 GMT 16:30	TGT=2 BV=5 P=300.00 Y= 0.00 OM= 0.00	A7 RATE 0.0230 AUTO DB AT 1.000 VERN DB RT 0.020	EARTH R 180 P 60	LVLH R= 0.00 P=330.00 Y= 0.00	-Z TGT Track
23 001/15:16:01 MET 26:44 337/18:16:31 GMT 27:14	TGT=2 BV=5 P=273.00 Y= 0.00 OM= 0.00 TERMINAL PHASE, DAP:A8/B8	A7 RATE 0.0420 AUTO DB AT 1.000 VERN DB RT 0.020	EARTH R 180 P 87	LVLH R= 0.00 P=357.00 Y= 0.00	-Z TGT Track
24 001/15:34:00 MET 35:00 337/18:34:30 GMT 35:30 - Ti + 01:20	TGT=2 BV=5 P=270.00 Y= 0.00 OM= 0.00	A8 RATE 0.0500 AUTO DB AT 1.000 VERN DB RT 0.020	EARTH R 180 P 90	LVLH R= 0.00 P= 0.00 Y= 0.00	Establish RBAR RBAR Approach

*** ALL ATTITUDES IN MEAN OF 1950 ***
*** PYR EULER SEQUENCE ***

Attitude Timeline

MET/GMT	MNVR OPTION	DAP	E/S	REF ATT/REMARKS	EVENT
25 001/15:44:00 MET 337/18:44:30 GMT - Ti + 01:30	TGT=2 BV=5 P=270.00 Y= 0.00 OM= 90.00	B7 AUTO VERN RATE 0.2000 DB AT 1.000 DB RT 0.020			Tail Fwd Start
26 001/15:46:00 MET 59:00 337/18:46:30 GMT 59:30	*** MNVR INTERRUPT *** TGT=2 BV=5 P=270.00 Y= 0.00 OM=180.00 WHEN IN ATT, DAP: A9,B9	B7 AUTO VERN RATE 0.2000 DB AT 1.000 DB RT 0.020	EARTH R 180 P 90	LVLH R=180.00 P=180.00 Y= 0.00	Tail Fwd
27 001/16:48:00 MET 337/19:48:30 GMT		A10 FREE VERN RATE 0.0500 DB AT 0.500 DB RT 0.020	EARTH R 180 P 90	LVLH R=180.00 HOLD P=180.00 Y= 0.00	DOCKING FREEDRIFT
When Rng < 75ft, A10/B10					
28 001/17:10:00 MET 25:12 337/20:10:30 GMT 25:42	INRTL R=252.00 MNVR P=275.00 Y=318.00 Mated DAP: A12/B12	A12 AUTO VERN RATE 0.1000 DB AT 3.000 DB RT 0.050	SUN R 360 P 74	Calculated @ 02/04:02:46 Beta = 26	Orb. LVLH@noon R=270P=270Y=280 ISS BIAS XPOP -XPH +ZNN MPA
29 001/17:50:00 MET 337/20:50:30 GMT		A12 FREE VERN RATE 0.1000 DB AT 3.000 DB RT 0.050	SUN R 360 P 74	INRTL R=252.00 HOLD P=275.00 Y=318.00	DTO 257 FREEDRIFT
30 001/18:35:00 MET 337/21:35:30 GMT	INRTL R=252.00 MNVR P=275.00 Y=318.00	A12 AUTO VERN RATE 0.1000 DB AT 3.000 DB RT 0.050	SUN R 360 P 74		Return to MPA
31 001/19:00:00 MET 337/22:00:30 GMT		A12 FREE VERN RATE 0.1000 DB AT 3.000 DB RT 0.050	SUN R 360 P 74	INRTL R=252.00 HOLD P=275.00 Y=318.00	P6 Unberth to Park Posn. FREEDRIFT
32 001/20:05:00 MET 337/23:05:30 GMT	INRTL R=252.00 MNVR P=275.00 Y=318.00	A12 AUTO VERN RATE 0.1000 DB AT 3.000 DB RT 0.050	SUN R 360 P 74		Return to MPA
33 001/23:26:43 MET 52 338/02:27:13 GMT 22	TGT=2 BV=5 P=280.00 Y= 0.00 OM=270.00	A12 AUTO VERN RATE 0.1000 DB AT 3.000 DB RT 0.050	EARTH R 180 P 80	LVLH R=270.00 P=270.00 Y=280.00	Bias -ZLV +YVV Waste H2O Dump Retrograde 10 deg bias
34 002/00:58:44 MET 50 338/03:59:14 GMT 20	INRTL R=252.00 MNVR P=275.00 Y=318.00	A12 AUTO VERN RATE 0.1000 DB AT 3.000 DB RT 0.050	SUN R 360 P 74		Return to MPA
35 002/14:01:00 MET 338/17:01:30 GMT		A12 FREE VERN RATE 0.1000 DB AT 3.000 DB RT 0.050	SUN R 0 P 74	INRTL R=252.00 HOLD P=275.00 Y=318.00	P6 to Premate FREEDRIFT
36 002/14:30:00 MET 338/17:30:30 GMT	INRTL R=252.00 MNVR P=275.00 Y=318.00	A12 AUTO VERN RATE 0.1000 DB AT 3.000 DB RT 0.050	SUN R 0 P 74		Return to MPA

*** ALL ATTITUDES IN MEAN OF 1950 ***
*** PYR EULER SEQUENCE ***

Attitude Timeline

MET/GMT	MNVR OPTION	DAF	E/S	REF ATT/REMARKS	EVENT
37 002/16:20:00 MET 338/19:20:30 GMT		B12 RATE 0.1000 FREE DB AT 3.000 VERN DB RT 0.050	SUN R 1 P 74	INRTL R=252.00 HOLD P=275.00 Y=318.00	P6 RDY to Latch FREEDRIFT (EVA)
38 002/18:00:00 MET 338/21:00:30 GMT	INRTL R=252.00 MNVR P=275.00 Y=318.00	B12 RATE 0.1000 AUTO DB AT 3.000 VERN DB RT 0.050	SUN R 1 P 74		Return to MPA
39 002/21:30:00 MET 339/00:30:30 GMT		B12 RATE 0.1000 FREE DB AT 3.000 VERN DB RT 0.050	SUN R 1 P 74	INRTL R=252.00 HOLD P=275.00 Y=318.00	4B SA DPLY FREEDRIFT
40 002/22:50:00 MET 339/01:50:30 GMT		B12 RATE 0.1000 FREE DB AT 3.000 VERN DB RT 0.050	SUN R 1 P 74	INRTL R=252.00 HOLD P=275.00 Y=318.00	2B SA DPLY FREEDRIFT
41 002/23:55:00 MET 339/02:55:30 GMT		A12 RATE 0.1000 FREE DB AT 3.000 VERN DB RT 0.050	SUN R 1 P 74	INRTL R=252.00 HOLD P=275.00 Y=318.00	P6 PV rad dep. FREEDRIFT
42 003/00:15:00 MET 16:02 339/03:15:30 GMT 16:32	INRTL R=250.00 MNVR P=268.00 Y=320.00	A12 RATE 0.1000 AUTO DB AT 3.000 VERN DB RT 0.050	SUN R 360 P 74	Calculated @ 03/12:15:14 Beta = 28 12 degree bias	Orb. LVLH@noon R=270P=270Y=282 ISS BIAS XPOP -XPH +ZNN MPA
43 003/23:30:00 MET 55 340/02:30:30 GMT 31:25	INRTL R=249.00 MNVR P=262.00 Y=321.00	A12 RATE 0.1000 AUTO DB AT 3.000 VERN DB RT 0.050	SUN R 360 P 73	Calculated at 04/11:15:35 Beta = 29 12 deg BIAS	Orb. LVLH@noon R=270P=270Y=282 ISS BIAS XPOP -XPH +ZNN MPA
44 004/20:00:00 MET 340/23:00:30 GMT		B12 RATE 0.1000 FREE DB AT 3.000 VERN DB RT 0.050	SUN R 0 P 73	INRTL R=249.00 HOLD P=262.00 Y=321.00	RLS RAD CINCHES FREEDRIFT
45 004/20:30:00 MET 45:20 340/23:30:30 GMT 45:50	TGT=2 BV=5 P=280.00 Y= 0.00 OM=180.00	B12 RATE 0.1000 AUTO DB AT 3.000 VERN DB RT 0.050	EARTH R 180 P 80	LVLH R=180.00 P=190.00 Y= 0.00	LVLH TEA ISS BIAS +ZLV -XV 10 deg BIAS
46 005/22:35:00 MET 342/01:35:30 GMT	free drift				EETCS Deploy
47 005/23:05:00 MET 342/02:05:30 GMT	TGT=2 BV=5 P=280.00 Y= 0.00 OM=180.00	A12 RATE 0.1000 AUTO DB AT 3.000 VERN DB RT 0.050	EARTH R 180 P 80	LVLH R=180.00 P=190.00 Y= 0.00	LVLH TEA ISS BIAS +ZLV -XV 10 deg BIAS
48 006/14:45:00 MET 342/17:45:30 GMT		A12 RATE 0.1000 FREE DB AT 3.000 VERN DB RT 0.050	SUN R 150 P 105	INRTL R=136.65 HOLD P=341.53 Y=353.02	DTO 261 FREEDRIFT (Test 1)

*** ALL ATTITUDES IN MEAN OF 1950 ***
*** PYR EULER SEQUENCE ***

Attitude Timeline

MET/GMT	MNVR OPTION	DAP	E/S	REF ATT/REMARKS	EVENT
49 006/15:55:00 MET 16:09:22 342/18:55:30 GMT 19:09:52	TGT=2 BV=5 P=280.00 Y= 0.00 OM=180.00	A12 AUTO VERN RATE 0.1000 DB AT 3.000 DB RT 0.050	EARTH R 180 P 80	LVLH R=180.00 P=190.00 Y= 0.00	LVLH TEA ISS BIAS +ZLV -XV 10 deg BIAS
50 006/17:25:00 MET 342/20:25:30 GMT					DTO 261 Free Drift (test 2)
51 006/18:00:00 MET 342/21:00:30 GMT	TGT=2 BV=5 P=280.00 Y= 0.00 OM=180.00	A12 AUTO VERN RATE 0.1000 DB AT 3.000 DB RT 0.050	EARTH R 180 P 80	LVLH R=180.00 P=190.00 Y= 0.00	LVLH TEA ISS BIAS +ZLV -XV 10 deg BIAS
52 007/13:45:00 MET 46:40 343/16:45:30 GMT 47:10	TGT=2 BV=5 P=270.00 Y= 0.00 OM=180.00	A12 AUTO VERN RATE 0.1000 DB AT 3.000 DB RT 0.050	EARTH R 180 P 90	LVLH R=180.00 P=180.00 Y= 0.00	+ZLV -XV Undock Attitude
53 007/15:13:00 MET 343/18:13:30 GMT	TGT=2 BV=5 P=270.00 Y= 0.00 OM=180.00 WHEN RNG>400FT, A9/B9	A12 FREE VERN RATE 0.1000 DB AT 3.000 DB RT 0.050	EARTH R 180 P 90	LVLH R=180.00 P=180.00 Y= 0.00	UNDOCK SR - 17:00 FREEDRIPT
54 007/15:31:00 MET 343/18:31:30 GMT Undock +18 Min	TGT=2 BV=5 P= 0.00 Y= 0.00 OM=180.00	A9 AUTO ALT RATE 0.1300 DB AT 1.00 DB RT 0.100			begin flyaround
55 007/15:42:00 MET 343/18:42:30 GMT prior to vbar	*** MNVR INTERRUPT *** TGT=2 BV=5 P= 90.00 Y= 0.00 OM=180.00	A9 AUTO ALT RATE 0.1300 DB AT 1.00 DB RT 0.100			(-rbar att) RNDZ Blk8a step2
56 007/15:52:00 MET 58:26 343/18:52:30 GMT 58:56 prior to -Rbar	*** MNVR INTERRUPT *** TGT=2 BV=5 P=124.00 Y= 0.00 OM=180.00	A9 AUTO ALT RATE 0.1300 DB AT 1.00 DB RT 0.100	EARTH R 0 P 124	LVLH R=180.00 P= 34.00 Y= 0.00	(ICBC att) RNDZ Blk8a step3
57 007/16:10:00 MET 343/19:10:30 GMT 12min post-Rbar	TGT=2 BV=5 P=270.00 Y= 0.00 OM=180.00	A9 AUTO ALT RATE 0.3000 DB AT 1.00 DB RT 0.100			(+Rbar att) RNDZ Blk8a step5
58 007/16:16:00 MET 20:52 343/19:16:30 GMT 21:22 18min post-Rbar	*** MNVR INTERRUPT *** TGT=2 BV=5 P=270.00 Y= 0.00 OM=180.00	A9 AUTO ALT RATE 0.1300 DB AT 1.00 DB RT 0.100	EARTH R 180 P 90	LVLH R=180.00 P=180.00 Y= 0.00	(+Rbar att) RNDZ Blk8a step6
59 007/16:22:00 MET 23:32 343/19:22:30 GMT 24:02	TGT=2 BV=5 P=258.00 Y= 0.00 OM=180.00 POST BURN, DAP: A6/B2	A9 AUTO ALT RATE 0.1300 DB AT 1.00 DB RT 0.100	EARTH R 180 P 102	LVLH R=180.00 P=168.00 Y= 0.00	Sep Burn +X Retrograde
60 007/16:30:00 MET 44:35 343/19:30:30 GMT 45:05	TGT=2 BV=3 P= 90.00 Y= 0.00 OM=310.00	A6 AUTO ALT RATE 0.2000 DB AT 5.00 DB RT 0.070	EARTH R 0 P 90	LVLH R= 0.00 P=180.00 Y= 50.00	BIAS -ZLV +YV Waste H2O Dump in ZONE C

*** ALL ATTITUDES IN MEAN OF 1950 ***
*** PYR EULER SEQUENCE ***

Attitude Timeline

MET/GMT	MNVR OPTION	DAP	E/S	REF ATT/REMARKS	EVENT
61 008/00:00:00 MET 04:10 344/03:00:30 GMT 04:40	TGT=2 BV=3 P= 90.00 Y= 0.00 OM= 0.00	A6 AUTO ALT RATE 0.2000 DB AT 5.00 DB RT 0.070	EARTH R 0 P 90	LVLH R= 0.00 P=180.00 Y= 0.00	-ZLV -XVV
62 009/14:50:00 MET 15:02:51 345/17:50:30 GMT 18:03:21	INRTL R= 53.00 MNVR P= 42.00 Y= 41.00	B2 AUTO VERN RATE 0.2000 DB AT 1.000 DB RT 0.020	SUN R 247 P 120	-Y: 51 -Z: 55	IMU ALIGN AOS: 15:01 LOS: 15:22
63 009/15:10:00 MET 16:35 345/18:10:30 GMT 17:05	INRTL R=289.00 MNVR P=184.00 Y= 55.00	B2 AUTO VERN RATE 0.2000 DB AT 1.000 DB RT 0.020	SUN R 310 P 129	-Y: 17 -Z: 20	IMU VERIF AOS: 14:50 LOS: 15:32
64 009/15:23:00 MET 35:30 345/18:23:30 GMT 36:00	TGT=4 RA= 257.292 BV=5 DEC= -22.9328 P=184.00 Y= 0.00 OM=270.00	A1 AUTO VERN RATE 0.2000 DB AT 1.000 DB RT 0.020	SUN R 180 P 176	INRTL R= 44.25 P=290.94 Y= 61.30	-XSI RAD COLD SOAK
65 009/17:11:00 MET 25:02 345/20:11:30 GMT 25:32	INRTL R=194.00 MNVR P=314.00 Y= 36.00	A1 AUTO VERN RATE 0.2000 DB AT 1.000 DB RT 0.020	SUN R 91 P 150	Sun P = 180 Y = 30 OM = 100	Comm Attitude
66 009/19:15:00 MET 18:41 345/22:15:30 GMT 19:11	INRTL R=313.00 MNVR P=297.00 Y= 28.00	TRN AUTO PRI RATE 0.5000 DB AT 3.50 DB RT 0.20	SUN R 317 P 144	TIG: 9/19:36	D/O Burn

*** ALL ATTITUDES IN MEAN OF 1950 ***
*** PYR EULER SEQUENCE ***

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FLIGHT PLAN NOTES

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FLIGHT PLAN NOTES
(CONSTRAINTS AND GUIDELINES)

A. FLIGHT DESCRIPTION

Orbiter: OV105/Endeavour
 Launch Window: 10 min
 Inclination: 51.6°
 Insertion Altitude: 174 nm
 Rendezvous Altitude: 195 X 205 nm
 Duration: 10+1+2 days

B. MAJOR EVENTS

FLIGHT PLAN
NOTES

<u>EVENT</u>	<u>MET</u>	<u>HOU</u> <u>DATE</u>	<u>CST</u>	<u>GMT</u>	<u>ΔV</u> <u>(FT/S)</u>	<u>HP/HA</u>
Launch	00/00:00	11/30/00	21:01	03:01	--	--
OMS2	00/00:44	11/30/00	21:45	03:45	80.5	85/174
NC1	00/03:43	12/01/00	00:44	06:44	18.1	95/174
NC2	00/15:49	12/01/00	12:40	18:40	3.0	96/174
NPC	00/19:45	12/01/00	16:46	22:46	2.7	96/173
Depress to 10.2 psi	00/21:51	12/01/00	18:51	00:51	--	--
NC3	01/00:35	12/01/00	23:06	05:06	3.0	98/173
NH	01/12:13	12/02/00	09:14	15:14	100.2	121/204
NC4	01/12:43	12/02/00	09:44	15:44	120.6	190/205
Ti	01/14:15	12/02/00	11:16	17:16	8.9	195/208
RBAR	01/15:36	12/02/00	12:37	18:37	--	--
ISS Docking	01/16:48	12/02/00	13:49	19:49	--	196/205
RMS MVR P6	01/18:35	12/02/00	15:36	21:36	--	--
PMA 3 Open	01/19:20	12/02/00	16:21	22:21	--	--
EVA1 Start	02/15:45	12/03/00	12:46	18:46	--	--
P6 Install	02/16:30	12/03/00	13:31	19:31	--	--
SA Deploy	02/20:55	12/03/00	14:56	20:56	--	--
Radiator Deploy	02/23:55	12/03/00	20:56	02:56	--	--
EVA2 Start	04/15:45	12/05/00	12:46	18:46	--	--
Hatch Open	05/15:00	12/06/00	12:01	18:01	--	--
EETCS Deploy	05/22:35	12/06/00	19:36	01:36	--	--
Hatch Close	06/22:30	12/07/00	19:31	01:31	--	--
Undock	07/15:13	12/08/00	12:14	18:14	--	195/205
Final Sep (-Rbar)	07/16:17	12/08/00	13:18	19:18	3.0	195/203
Deorbit	09/19:36	12/10/00	16:37	22:37	TBD	--
Landing	09/20:41	12/10/00	17:42	23:42	--	--

C. LANDING OPPORTUNITIES

		<u>Landing Orbit No.</u>	<u>Site</u>	<u>Local Time</u>	<u>MET</u>
Nominal	Primary	156	KSC	18:41	9/20:41
	1 Rev Late	157	EDW	19:12	9/22:12
	Weather Alt	158	EDW	20:48	9/23:47
1 Day Late	Primary	171	KSC	16:38	10/19:37
	1 Rev Late	172	KSC	18:14	10/21:13
	Weather Alt	173	EDW	19:44	10/22:44
2 Days Late	Primary	186	KSC	15:34	11/18:34
	1 Rev Late	187	KSC	17:10	11/20:10
	Weather Alt	188	EDW	18:41	11/21:40

D. CREW

CDR – Brent Jett
 PLT/RMS – Michael Bloomfield
 MS1/EV1 – Joseph Tannier
 MS2/IV/RMS – Marc Garneau
 MS3/EV2 – Carlos Noriega

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 positions. The data shown contains 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. 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° W), West (171° W), Z (275° W)

Ground Sites (*): MIL, WLP, and DFR

RTS Ground Sites (**): DGS, GTS, HTS, OTS, VTS, NHS, and CTS

(*) Lead time for site callup – 2 hr (GSTDN)

(**) Lead time for site call up – 4 hrs (GSTDN)

FGB/SM

Communication to/from MCC–M through Russian Ground Sites*

(*) Refer to [HTTP://MAHOGANY.JSC.NASA.GOV/DO13/RGS_CAPABILITIES.DOC](http://MAHOGANY.JSC.NASA.GOV/DO13/RGS_CAPABILITIES.DOC)

ISS Early Comm System and Low Data Rate S-Band (post-activation)

TDRS Support: East (41° W), West (174° W), Spare (275° W)

F. PAYLOADS

1. LAUNCH PACKAGE 4A

The Launch Package (LP) flown on mission 4A consists of the P6 Integrated Truss Segment (ITS) and crew compartment items. The Russian Complement on mission 4A consists of crew compartment items.

The primary elements delivered on Flight 4A for the completion of ISS Stage 6 are the Port Outboard Photovoltaic (PV) Module and Long Spacer, with an additional two PV module radiators used temporarily for the Early External Active Thermal Control System (EEATCS) to provide cooling for the Lab module. The Port Outboard PV Module contains two Beta Gimbal/PV array assemblies, two Beta Gimbal Transition Structures (BGTSSs), one Integrated Equipment Assembly (IEA) – Type III, and associated cabling. The cargo element also carries the S-band Tracking and Data Relay Satellite System (TDRSS) transponder and Orbiter Space Vision System (OSVS) targets preintegrated.

The IMAX Cargo Bay Camera-3D (ICBC3D) will fly in the cargo bay in support of the ISS-4A complement and be used to record mission scenes including rendezvous; docking; P6 unberthing, deployment, and positioning; Solar Array (SA) and PV Radiator deploy; EVA 1 and 2 highlights; undocking; and prox ops.

The Wireless Instrumentation System (WIS) will be used to support the validation process of ISS thermal and structural dynamics models. The WIS network consists of a Payload and General Support Computer (PGSC) or ISS compatible Laptop-controlled Network Control Unit (NCU), Remote Sensor Units (RSUs), and sensing devices. Subsets of the WIS to be used on the ISS-4A mission include the Shuttle Wireless Instrumentation System (SWIS), and the Internal Wireless Instrumentation System (IWIS), which is used for DTO 261.

The SWIS will utilize a PGSC, NCUs (two), eight RSUs [three on the orbiter sill and five on the P6 Cargo Elements (CEs)]; and Resistive Temperature Devices (RTDs) as sensing elements. It will measure and record temperatures at temperature-sensitive locations of the P6 CE during the prelaunch to activation timeframe. The primary purpose of SWIS is to monitor battery temperatures while the P6 is in the thermal hover position and prior to P6 to Z1 installation. Secondary objectives involve collection of temperature data on the Beta Gimbal Orbital Replaceable Units (ORUs) and Photovoltaic Radiators (PVRs) for correlation of thermal model assumptions and analyses, as well as predictions of thermally acceptable attitude ranges and constraints.

Unique LP equipment such as special EVA tools to support assembly operations and the ISS Portable Computer System (PCS) will be stowed in the crew compartment. Two APCUs, configured for primary power (configuration B), will also be installed in the orbiter and utilized on this flight.

2. 4A RETURN COMPLEMENT

The EVA tools and support equipment that are launched in the orbiter middeck for EVA on-orbit usage shall be replaced into the middeck lockers for return to Earth. The orbiter-mounted SWIS RSUs and antennas shall remain in the orbiter as part of the Return Complement (RC). The SWIS NCUs and antenna, and an IWIS PC hard disk card and VTR videotapes will also be part of the RC stowed in the middeck.

3. IMAX Cargo Bay Camera 3D (ICBC3D)

The ICBC3D payload is a 65mm color 3D motion picture camera system. The system consists of a camera, lens turret assembly, and film magazine containing approximately 5400 feet of film. The camera system is housed in an insulated pressurized enclosure with a movable lens window cover, and is mounted in the cargo bay on a Get-Away Special (GAS) beam or other certified shuttle carrier. The camera system is operated from the Aft Flight Deck (AFD) with a PGSC. The dc power for heating and camera operation are supplied by the orbiter. An audio recorder with microphones supplied by the customer will be used in the crew compartment in conjunction with the camera system. A payload-supplied light level measurement unit will be used by the crew to aid in setting IMAX camera aperture f-stops.

G. DETAILED TEST OBJECTIVES (DTOs)

1. STRUCTURE DYNAMICS MODEL VALIDATION (DTO 257)

This test will excite the structural dynamics of the joined shuttle and ISS to acquire several critical natural frequencies and their corresponding structural damping. It will allow confirmation that shuttle primary jet control algorithm tuning is acceptable prior to attitude control which uses this algorithm. The data acquired by this test will be assessed in a near real-time manner to remove constraints on shuttle primary attitude control usage. This is accomplished by comparing the measured structural natural frequencies and damping to the preflight predictions. If the preflight model uncertainty and damping assumptions are conservative, the primary control algorithm usage will be permitted immediately. If the preflight assumptions are not conservative, new control algorithm constants will be designed and uplinked as necessary. These constraints include the minimum ALT DAP delay time and the feedback sensor notch filters. The test requires orbiter free drift during which time the crew will manually input Primary Reaction Control System (PRCS) jet firings. The orbiter operational instrumentation downlink of the shuttle Inertial Measurement Unit (IMU) attitude data at full sample rate is required.

2. ISS ON-ORBIT LOADS VALIDATION (DTO 261)

The purpose of these tests is to excite and measure the structural dynamics of the ISS and to use the results to validate critical areas of the on-orbit loads prediction models. Test 1 will obtain photogrammetric measurement of the PV arrays. Test 2 will obtain photogrammetric measurements of the radiator. Both tests will obtain acceleration and dynamic strain measurements in the Node 1, US Lab, and Russian modules as they are added to the configuration.

The measured time histories of the structural dynamic motion after planned forcing function events will be used to confirm the critical natural frequencies, relative modal amplitudes, and calculated structural damping. On-orbit model validation tests of mated configurations is justified because the high uncertainty associated with ground unmated validation precludes: accurate knowledge of critical loads seen during mated configurations, precise tailoring of operations, or accurate knowledge of fatigue life consumption. Portions of the data acquired by this test will be assessed in a near real-time manner to ensure that no constraints are required for shuttle primary jet attitude control or other significant forcing functions.

3. SINGLE STRING GLOBAL POSITIONING SYSTEM (GPS) (DTO 700-14), CONFIG B

The purpose of this experiment is to demonstrate the performance and operation of the GPS during orbiter ascent, entry, and landing phases utilizing a modified military GPS receiver processor and the existing orbiter GPS antennas.

4. CROSSWIND LANDING PERFORMANCE (DTO 805)

The purpose is to demonstrate the capability to perform a manually controlled landing in the presence of a crosswind.

H. DETAILED SUPPLEMENTAL OBJECTIVES (DSOs)

None

I. HUMAN EXPLORATION AND DEVELOPMENT OF SPACE (HEDS) TECHNOLOGY DEMONSTRATIONS (HTD)

1. LASER DYNAMIC RANGE IMAGER (LDRI) (HTD 1404)

The purpose of the LDRI HTD is to demonstrate LDRI as an instrument for obtaining static and dynamic range imagery and measurements of space structures for use in validating structural models and for determining position and orientation in real time. The LDRI unit is mounted to the underside of a payload bay Intensified Television Camera (ITVC). Each unit contains one laser transmitter/receiver pair and obtains range for every pixel at video rates by phase-differencing amplitude modulated laser energy.

The objective of the LDRI HTD is to demonstrate the LDRI capabilities while mounted under an orbiter payload bay camera during DTO 261 (ISS On-Orbit Loads Validation) Tests, EVA, Prox Ops, Reboost, and other events of opportunity. It will augment the DTO arrays, radiators, on-orbit structures, and astronaut motion. The LDRI sponsor will assess the recorded/downlinked imagery and data from the LDRI to determine target structural-dynamic parameters used to validate models. The LDRI will function along with DTO 261, and will not add to the number of crew or propellant used during its operations.

CUE CARD CONFIGURATION

I

CUE CARD
CONFIG

CUE CARD
CONFIG

TOP

PILE
VELCRO

PILE
VELCRO

STS-97 DAP A1 - 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	0.10
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

NOTE: **BOLD-ITALIC** indicate a change from I-load

FLT PLN-1a/97/O/B

HINGE

CC 8-2

FLT PLN/97/FIN

TOP
HINGED AT BOTTOM OF
'STS 97 DAP A1 - A8 CONFIGURATIONS'

HINGE

STS-97 DAP B1 - B8 CONFIGURATIONS

	ITEM #	B1	B2	B3	B4	B5	B5*	B6	B7	B8
PRI										
ROT RATE	30(50)	0.5000	0.2000	0.2000	0.1000	0.1000	0.2000	0.1000	0.5000	0.0500
ATT DB	31(51)	3.00	3.00	3.00	40.00	40.00	3.00	40.00	2.00	2.00
RATE DB	32(52)	0.20	0.20	0.20	5.00	5.00	0.20	5.00	0.20	0.10
ROT PLS	33(53)	0.04	0.04	0.04	0.07	0.06	0.40	0.20	0.04	0.04
COMP	34(54)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000
P OPTION	35(55)	ALL	TAIL	ALL	TAIL	TAIL	TAIL	TAIL	ALL	ALL
Y OPTION	36(56)	ALL	TAIL	ALL	TAIL	TAIL	TAIL	TAIL	ALL	ALL
TRAN PLS	37(57)	0.10	0.02	0.02	0.04	0.03	0.02	0.03	0.05	0.05
ALT										
RATE DB	38(58)	0.200	0.070	0.070	0.070	0.070	0.200	0.070	0.100	0.100
JET OPT	39(59)	ALL	TAIL	ALL	TAIL	TAIL	ALL	TAIL	ALL	ALL
# JETS	40(60)	2	1	1	1	1	2	2	2	2
ON TIME	41(61)	0.08	0.08	0.08	0.24	0.24	0.08	0.16	0.08	0.08
DELAY	42(62)	0.00	0.00	0.00	1.68	0.00	0.00	1.04	0.00	0.00
VERN										
ROT RATE	43(63)	0.2000	0.2000	0.2000	0.0500	0.0500	0.0160	0.0500	0.2000	0.0500
ATT DB	44(64)	1.000	1.000	1.000	40.00	40.00	0.033	40.00	1.000	1.000
RATE DB	45(65)	.020	.020	.020	.500	.500	.020	.500	.020	.020
ROT PLS	46(66)	0.002	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	.000
CNTL ACC	48(68)	0	0	0	0	0	0	0	0	0
PURPOSE		OMS/RCS BURNS	LOSS OF VERN (TAIL ONLY)	LOSS OF VERN (ALL)	DTO 261 AFT	DTO 261 YAW 2	COAS/ HUD CAL	DTO 261 ROLL	RNDZ	TERMINAL PHASE

NOTE: **BOLD-ITALIC** indicate a change from I-load
*Alternate DAP available for contingency

FLT PLN-1aa/97/O/B



CC 8-3

FLT PLN/97/FIN

TOP
BACK OF 'STS-97 DAP A1 - A8 CONFIGURATIONS'

**PILE
VELCRO**

**PILE
VELCRO**

STS-97 DAP A9 - A15 CONFIGURATIONS

	ITEM #	A9	A10	A11	A12	A13	A14	A15
PRI					**			
ROT RATE	10(50)	0.1300	0.0500	0.2000	0.1000	0.0500	0.1000	0.1000
ATT DB	11(51)	1.00	0.50	5.00	5.00	1.00	40.00	40.00
RATE DB	12(52)	0.10	0.10	0.20	0.20	0.10	5.00	5.00
ROT PLS	13(53)	0.10	0.10	0.10	0.04	0.10	0.04	0.04
COMP	14(54)	.000	.000	.000	.000	.000	.000	.000
P OPTION	15(55)	TAIL	TAIL	ALL	TAIL	TAIL	TAIL	ALL
Y OPTION	16(56)	TAIL	TAIL	ALL	TAIL	TAIL	TAIL	ALL
TRAN PLS	17(57)	0.05	0.05	0.10	0.01	0.05	0.10	0.10
ALT					**			
RATE DB	18(58)	0.100	0.100	0.200	0.070	0.200	0.070	5.000
JET OPT	19(59)	ALL	ALL	ALL	TAIL	ALL	TAIL	ALL
# JETS	20(60)	2	2	2	2	2	2	1
ON TIME	21(61)	0.08	0.08	0.08	0.08	0.08	0.16	0.08
DELAY	22(62)	0.00	0.00	0.00	12.00	0.00	5.68	0.00
VERN								
ROT RATE	23(63)	0.1300	0.0500	0.2000	0.1000	0.0500	0.0500	0.1000
ATT DB	24(64)	1.000	0.500	1.000	3.000	1.000	40.000	40.000
RATE DB	25(65)	.020	.020	.020	.050	.020	.500	.500
ROT PLS	26(66)	0.050	0.050	0.010	0.002	0.050	0.002	0.001
COMP	27(67)	.000	.000	.000	.000	.000	.000	.000
CNTL ACC	28(68)	0	0	0	1*	0	0	0
PURPOSE		PROX OPS/ FLYAROUND	DOCKING		MATED STACK (RMS OPS)	FAILED CAPTURE	DTO 261 PITCH	PRCS TEST (DTO 257)

NOTE: **BOLD-ITALIC** indicate a change from I-load

*CNTL ACCEL settings will vary from 1, for the initial mated stack config, through 9 dependent on the RMS positioning of P6. CNTL ACCEL 1 should be loaded for the initial 4A post-docked configuration

**A12/B12 PRCS/ALT is not designed to be used post-docking until the successful completion of DTO-257 and until P6 has been positioned to low hover or above. Loads analyses and control performance are not certified for PRCS outside this stated configuration

FLT PLN-1b/97/O/B

HINGE

CC 8-4

FLT PLN/97/FIN

TOP
 BACK OF 'STS-97 DAP B1 - B8 CONFIGURATIONS'
 HINGED AT BOTTOM OF
 'STS 97 DAP A9 - A15 CONFIGURATIONS'

HINGE

STS-97 DAP B9 - B15 CONFIGURATIONS

	ITEM #	B9	B10	B11	B12	B13	B14	B15
PRI					**			
ROT RATE	30(50)	0.1300	0.0500	0.0500	0.1000	0.0500	0.1000	0.1000
ATT DB	31(51)	1.00	0.50	40.00	5.00	1.00	40.00	40.00
RATE DB	32(52)	0.10	0.10	5.00	0.20	0.10	5.00	5.00
ROT PLS	33(53)	0.04	0.04	0.04	0.04	0.04	0.13	0.07
COMP	34(54)	.000	0.000	0.000	0.000	0.000	0.000	0.000
P OPTION	35(55)	TAIL	TAIL	TAIL	TAIL	TAIL	TAIL	TAIL
Y OPTION	36(56)	TAIL	TAIL	TAIL	TAIL	TAIL	TAIL	TAIL
TRAN PLS	37(57)	0.01	0.01	1.00	0.01	0.01	0.03	0.03
ALT					**			
RATE DB	38(58)	0.100	0.100	0.200	0.070	0.200	0.070	0.070
JET OPT	39(59)	ALL	ALL	TAIL	TAIL	ALL	TAIL	TAIL
# JETS	40(60)	2	2	2	2	2	2	1
ON TIME	41(61)	0.08	0.08	0.08	0.08	0.08	0.32	0.24
DELAY	42(62)	0.00	0.00	12.00	12.00	0.00	5.68	1.68
VERN								
ROT RATE	43(63)	0.1300	0.0500	0.1000	0.1000	0.0500	0.0500	0.0500
ATT DB	44(64)	1.000	0.500	5.000	3.000	1.000	40.00	40.00
RATE DB	45(65)	.020	.020	.200	.050	.020	.500	.500
ROT PLS	46(66)	0.020	0.020	0.020	0.002	0.020	0.002	0.002
COMP	47(67)	.000	.000	.000	.000	.000	.000	.000
CNTL ACC	48(68)	0	0	9	1*	0	0	0
PURPOSE		PROX OPS/ FLYAROUND	DOCKING	REBOOST	MATED STACK (RMS OPS)	FAILED CAPTURE	DTO 261 PITCH	DTO 261 YAW 1

NOTE: **BOLD-ITALIC** indicate a change from I-load

*CNTL ACCEL settings will vary from 1, for the initial mated stack config, through 9 dependent on the RMS positioning of P6. CNTL ACCEL 1 should be loaded for the initial 4A post-docked configuration

**A12/B12 PRCS/ALT is not designed to be used post-docking until the successful completion of DTO-257 and until P6 has been positioned to low hover or above. Loads analyses and control performance are not certified for PRCS outside this stated configuration

FLT PLN-1bb/97/O/B



CC 8-5

FLT PLN/97/FIN

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FLIGHT DATA FILE
Distribution
97 FLT PLN FS FIN

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AP/LEAD PAO
CB/CHIEF, ASTRONAUT OFF.
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DA2/STONE, B.R.
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DA8/LEAD STS FD (4)
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DF25/LEAD DPS (3)
DF25/LEAD ODIN (3)
DF52/LEAD MMACS (3)
DF53/LEAD OSO (3)
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DF63/LEAD PROP (3)
DF64/ADCO (3)
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DF84/THOR LIBRARY (3)
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DT35/DPS/NAV TRAIN LEAD
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2450 NASA RD 1
HOUSTON, TX 77058
C42/DYKE-EIZHBLATH, J. (9)

BOEING-CALIFORNIA
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7D-45 HUNTINGTON BEACH
CA 92647-2099
HO17-D415/MUHAR, M.M.
HO17-D416/SINCLAIR, G.M.
HO17-D307/WARD, J.
HO19-E7522/FERGUS, E.M.

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

NASA GSFC-AL
116 JETPLEX CIRCLE
MADISON, AL 35758
442/OLSON, K.

=====
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(11/07/00 - FERNANCA)

NOTE
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