

FLIGHT DATA FILE

Flight Plan

STS-106

(STS-106 FRR Trajectory)

**Mission Operations Directorate
Operations Division**

**Final
August 10, 2000**

EVENT	MET		CENTRAL	GMT	DMT
LAUNCH	0/00:00	Fri	09/08/00 07:31	252/12:31	252/15:31
TI	1/14:17	Sat	09/09/00 21:48	254/02:48	254/05:48
ISS DOCKING	1/17:09	Sun	09/10/00 00:40	254/05:40	254/08:40
EVA START	2/16:20	Sun	09/10/00 23:51	255/04:51	255/07:51
ISS INGRESS	3/14:15	Mon	09/11/00 21:46	255/02:46	255/05:46
ISS EGRESS	7/19:30	Sat	09/16/00 03:01	260/08:01	260/11:01
ISS UNDOCK	8/14:59	Sat	09/16/00 22:30	261/03:30	261/06:30
FINAL SEP	8/16:48	Sun	09/17/00 00:19	261/05:19	261/08:19
DEORBIT TIG	10/19:14	Wed	09/19/00 02:45	264/07:45	264/10:45
KSC LDG	10/20:14	Wed	09/19/00 03:45	264/08:45	264/11:45

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas



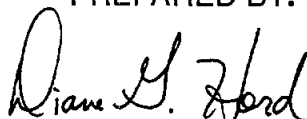
Verify this is the correct version for the pending operation (training, simulation, or flight).
Electronic copies of FDF books are available. URL: <http://fltproc.jsc.nasa.gov/dfd>

MISSION OPERATIONS DIRECTORATE

STS-106 FLIGHT PLAN

FINAL
August 10, 2000

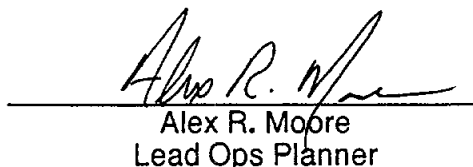
PREPARED BY:



Diane G. Hord
Book Manager/Lead FAO

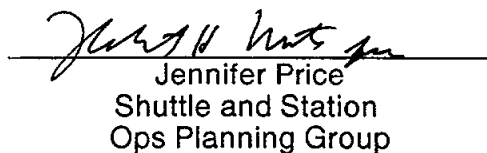


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Lead Timeliner

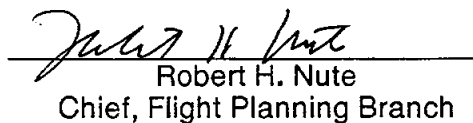


Alex R. Moore
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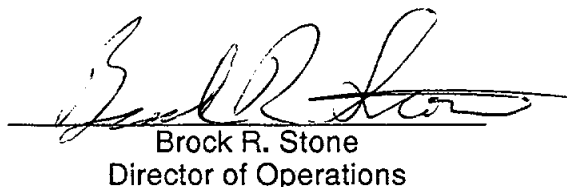
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Incorporates the following:

482#: FLT PLN-1962

Exception#: 106-1

Exception#: 106-2

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Lead Pointer	DO45/D. Pittman	281-244-5796
Lead Ops Planner	DO47/A. Moore	281-483-0261
Lead RPE	DO46/R. Stueber	281-244-1089

FLIGHT PLAN
STS-106

LIST OF EFFECTIVE PAGES

FINAL 08/10/00

Sign Off	* 106/FIN	3-14	106/FIN
ii	* 106/FIN	3-15	106/FIN
iii	* 106/FIN	3-16	106/FIN
iv	* 106/FIN	3-17	106/FIN
v	* 106/FIN	3-18	106/FIN
vi	* 106/FIN	3-19	106/FIN
vii	* 106/FIN	3-20	106/FIN
viii	* 106/FIN	3-21	106/FIN
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* - Omit from flight book

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* - Omit from flight book

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CC 10-3 * 106/FIN
CC 10-4 * 106/FIN
CC 10-5 * 106/FIN
CC 10-6 * 106/FIN

STS-106 FLIGHT PLAN FABRICATED ITEMS

<u>Title</u>	<u>Ref. Page</u>	<u>Item No.</u>
STS-106 DAP A1 THROUGH A8 CONFIGURATIONS . .	CC 10-3	FLT PLN-1a/106/O/A
STS-106 DAP B1 THROUGH B8 CONFIGURATIONS . .	CC 10-4	FLT PLN-1aa/106/O/B
STS-106 DAP A9 THROUGH A14 CONFIGURATIONS .	CC 10-5	FLT PLN-1b/106/O/B
STS-106 DAP B9 THROUGH B14 CONFIGURATIONS .	CC 10-6	FLT PLN-1bb/106/O/B

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INTRODUCTION

The STS-106 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.

The format of the summary and detailed timelines includes data bands for Mission Control Center – Houston (MCC-H) and Mission Control Center – Moscow (MCC-M). These data bands reflect key activities and commands executed by the 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-106 Flight Requirements Document. ISS flight objectives are scheduled based on the proposed IDRD priorities, dated July 21, 2000.

The flight profile used for this Flight Plan is for a launch date of September 8, 2000, at 12:30:57 GMT. Orbiter inertial attitudes are expressed relative to a mean of 1950 (M50) reference frame.

NSTS-37326, Shuttle Crew Scheduling Constraints (SCSC), Basic, July 1998, has been used to build the timelines contained in this Flight Plan.

The following SCSC Exceptions have been approved for STS-106:
106-1 and 106-2

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

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=106>

OVERVIEW TIMELINE

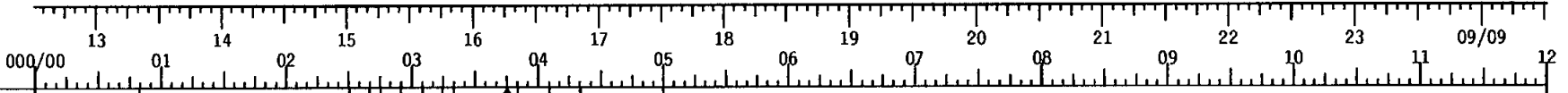
STS-106 (2A.2b) OVERVIEW TIMELINE

	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11											
FD 1	Sept. 8 Launch Date @ 12:30:57 GMT																																		
ORB ATT														ASC	-ZLV-YVV			NC1	-ZLV-XVV																
														NC1†		Pre Sleep																			
														CFG ORB																					
														SH ACT!																					
FD 2	Post Sleep											NC2†	SH ACT II, RMS C/O, EMU C/O (3), NC3†											Pre Sleep	Post Sleep										
ORB ATT	-ZLV-XVV			NC2			-ZLV-XVV			-ZLV+YVV			NC3			SOAR INRTL 0° ROLL			SOAR +ZLV-XVV																
ISS ATT	BIAS +ZLV +XVV																																		
FD 3	RNDZ & ISS DOCK											(1/17:09)†		ODS VEST PMA2 PRESS, PMA2 INGRS, N1 AIR SMPL, EVA TOOLS, SAFER C/O				10.2 DPRS	OFF-DUTY	Pre Sleep											Post Sleep				
ORB ATT	RNDZ & DOCK											BIAS +ZPH-XNN																							
ISS ATT	BIAS +ZLV +XVV			+XLV +ZVV			BIAS +XPH-ZNN (0,25,180)																												
FD 4	Post Sleep		PRE EVA		EVA (6:30) FGB/SM CABLES, MAGNETOMETER											REBOOST, POST EVA		Pre Sleep											Post Sleep						
ORB ATT	BIAS +ZPH-XNN											+ZLV +XVV		BIAS +ZPH-XNN																					
ISS ATT	BIAS +XPH-ZNN (0,25,180)											+XLV +ZVV		BIAS +XPH-ZNN (0,25,180)																					
FD 5	Post Sleep		ISS INGRESS, PMA2 AIR MSRMNT, FGB TORU & DOCKING PROBE RMVL, SM PTAB INSTL, RESTRAINT BOLT RMVL, LOG XFER, PROG UNLOAD											Pre Sleep											Post Sleep										
ORB ATT	-XLV +YVV		BIAS +ZPH-XNN																																
ISS ATT	+ZLV +XVV		BIAS +XPH-ZNN (0,15,180)																																
FD 6	Post Sleep		SM BATT/BUPT/PTAB INSTL, FGB BATT 4 R&R, RUSSIAN CYCLE ERGOMETER INSTL, LOG XFER, PROG UNLOAD											Pre Sleep											Post Sleep										
ORB ATT	BIAS +ZPH-XNN											BIAS +XPH-ZNN (0,15,180)																							
ISS ATT	BIAS +XPH-ZNN (0,15,180)																																		
FD 7	Post Sleep		FGB BATT 6 R&R, CT-25 INSTL, SM TOILET INSTL, ELEKTRON INSTL, ORLAN RELOCATE, LOG XFER, PROG UNLOAD, SM ACOUST MSRMNT, SM DOSIMETER INSTL											Pre Sleep											Post Sleep										
ORB ATT	BIAS +ZPH-XNN											-XLV +YVV		BIAS +ZPH-XNN																					
ISS ATT	BIAS +XPH-ZNN (0,15,180)											+ZLV +XVV		BIAS +XPH-ZNN (0,15,180)																					
FD 8	Post Sleep		TVIS ASSEMBLY & INSTL, HARM CONT FLTR C/O, LOG XFER, PROG STOW											Pre Sleep											Post Sleep										
ORB ATT	BIAS +ZPH-XNN											BIAS +XPH-ZNN (0,25,180)																							
ISS ATT	BIAS +XPH-ZNN (0,25,180)																																		
FD 9	Post Sleep		PROG STOW, PROG EGRESS/LEAK CK, LOG XFER, O2 REPRESS				ISS FINAL EGRESS				Pre Sleep											Post Sleep													
ORB ATT	BIAS +ZPH-XNN											BIAS +XPH-ZNN (0,25,180)																							
ISS ATT	BIAS +XPH-ZNN (0,25,180)																																		
FD 10	Post Sleep		UNDKT FLY ARND		OFF-DUTY											Pre Sleep											Post Sleep								
ORB ATT	-ZLV-XVV			FLY		-ZLV+YVV			SOAR XPOP (ISS BIAS -XPH-ZNN)			SOAR TEA (BIAS +ZLV-XVV)																							
ISS ATT	-XLV-ZVV			TEA (+XVV)																															
FD 11	Post Sleep		SOAR, FCS C/O, RCS HF, SH STOW, CABIN STOW, CREW CONF, D/O BRIEF, PILOT OPS, SH TEARDOWN, KU BD ANT STOW, OCA S-BD SETUP, HUD CAL											Pre Sleep											Post Sleep										
ORB ATT	SOAR TEA		SOAR +ZLV-XVV			SOAR INRTL 90° ROLL			SOAR INRTL 45° ROLL			+ZSI			-ZLV-XVV																				
FD 12	Post Sleep		SH DCT		D/O PREP		KSC LANDING 10/20:14																												
ORB ATT	-ZLV-XVV		IMU		-XSI		D/O COMM		ENT																										

SUMMARY TIMELINE

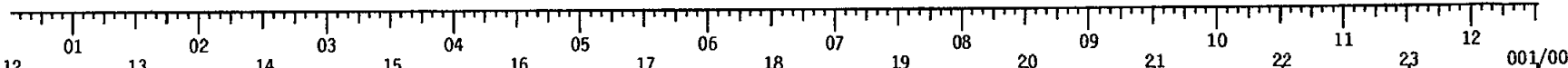
SUMMARY TIMELINE

GMT 09/08/00
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 MET Day 000

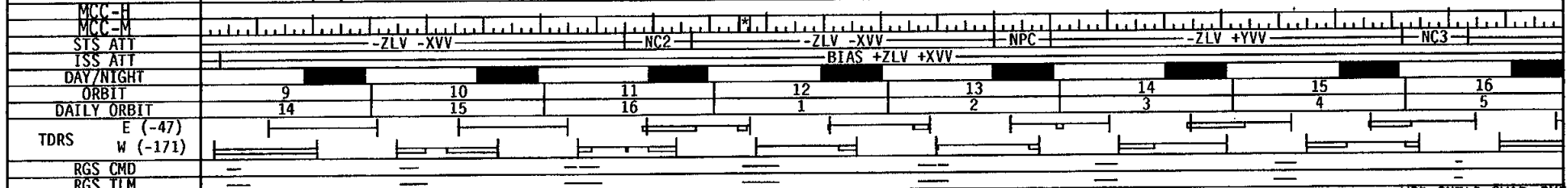


Crew Member	Mission Phase	Activities	Activities	Activities	Activities	Activities	Activities	Activities	Activities
CDR T. WILCUTT	FD01	POST INSERTION	ELV P K LAMP SMOKE	NC1 OMS BURN	MZLV PMCA/G	PRE SLEEP			SLEEP
PLT S. ALTMAN		POST INSERTION *ODS Init	LDAPS RAMS*	LAMP SMOKE	OMS BURN APU DE-ACT	GP RPR DN	PRE SLEEP		SLEEP
MS1 E. LU	L A U N C H	POST INSERTION *ODS Init	SHAB ACT I	PGSC SETUP		PRE SLEEP	GP RPR DN	PRE SLEEP	SLEEP
MS2 R. MASTRACCHIO		POST INSERTION	SHAB ACT I	PGSC SETUP	MU AN GS RT OW	PRE SLEEP - SH			SLEEP
MS3 D. BURBANK		POST INSERTION	OS C/A U C	TE L P C	OCA S/U	CLR PRN S/U	PRE SLEEP		SLEEP
MS4 Y. MALENCHENKO		POST INSERTION	SEE S/U				PRE SLEEP		SLEEP
MS5 B. MORUKOV		POST INSERTION	GIRA INST	CG BACK			PRE SLEEP - GIRA		SLEEP
MCC-H		ASCENT							
MCC-M		-ZLV -YVV							
STS ATT		-ZLV -XVV							
ISS ATT		+XPH +ZNN							
DAY/NIGHT		[Day/Night Cycle]							
ORBIT		[Orbit Cycle]							
DAILY ORBIT		[Daily Orbit Cycle]							
TDRS		E (-47) W (-171)							
RGS CMD		-							
RGS TLM		-							
NOTES		*AFT CNTRL *ON-ORBIT INIT							

GMT 09/09/00
 BETA ANG = -45.6
 MET Day 000



CDR T. WILCUTT	SLEEP	DSO 493	POST SLEEP	NC2 OMS BURN	RNDZ PGSC S/U	RNDZ TOOLS C/O	MU AN ST TO W	MS E A G R U P	NPC RCS BURN	MH N 2 V O R	MEAL	PRE ING EQUIP S/U	NC3 RCS BURN	MS NO V A R R	FS U O T A R R			
PLT S. ALTMAN	SLEEP	DSO 493	POST SLEEP	OMS BURN	RNDZ PGSC S/U	RNDZ TOOLS C/O	RMS C/O	RMS PLB SURVEY	RCS BURN	WI A N S I T T E	MEAL	WT A E S R T M E	ERGO S/U	FC %	RCS BURN	CRYO 02 SNSR CK	FCMS OPS	
MS1/EV1 E. LU	SLEEP	DSO 493	POST SLEEP	SHAB ACT II	RNDZ PGSC S/U	EMU C/O (3,2) *		EMU C/O (1)			MEAL	C/L CMR MOUNT	DOCK RING EXT	SOAR S/U & ACT		MW I C S R O		
MS2 R. MASTRACCHIO	SLEEP	DSO 493	POST SLEEP - SH	RMS SH TR	SHAB ACT II	FRED S/U	RP MW SR UP	RMS C/O	RMS PLB SURVEY	RP MW SR DN	SH MOD S/U	MEAL	SHAB XFER PREP		P/TV 20 S/U	*		
MS3 D. BURBANK	SLEEP	DSO 493	POST SLEEP	OIU C/O	A/L PREP +	EMU C/O (3,2) *		EMU C/O (1)			MEAL	C/L CMR MOUNT	DOCK RING EXT	PGSC NET S/U	EXERCISE			
MS4/EV2 Y. MALENCHENKO	SLEEP	DSO 493	POST SLEEP		A/L PREP +	EMU C/O (3,2) *		EMU C/O (1)			MEAL	PRE ING EQUIP S/U		EXERCISE				
MS5 B. MORUKOV	SLEEP	DSO 493	POST SLEEP - GIRA	P/TV 03 SH ACT	CH 2 A O *	P/TV 08 S/U	BI AN TI TT	CWC INITIAL SETUP	FILTER CLEANING	DB A I L T L	CT WE CR M 1	BT AE TR M	CI WN CI T 2	MEAL	CT WE CR M 2	ERGO S/U	DB GR A I L T L C L	P/TV 20 S/U



NOTES

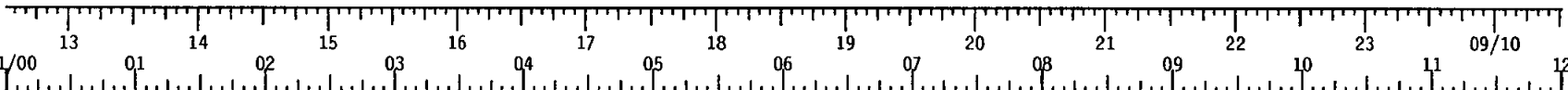
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 FGB ØBPI Act
 SM BMP Act

+HELMET LT BATT
 CHRNG INIT

*EMU SWAP

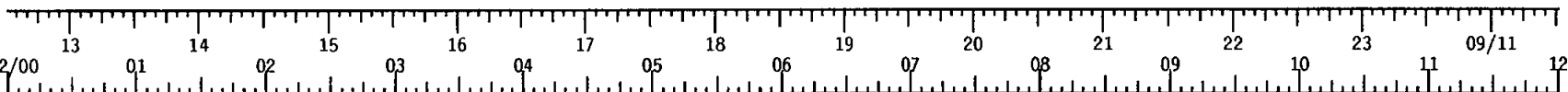
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 %PURGE-MANUAL

GMT 09/09/00
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 MET Day 001



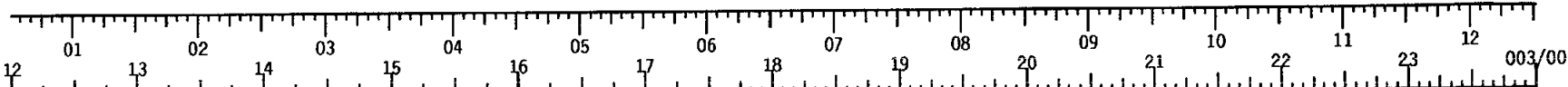
FD02												FD03								
CDR T. WILCUTT	PMC OCA	PRE SLEEP		EXERCISE				SLEEP(7.0)				DSO 493	POST SLEEP	G P R W P R B U P P	RNDZ					
PLT S. ALTMAN		EXERCISE		PRE SLEEP				SLEEP(7.0)				DSO 493	POST SLEEP	G P R W P R B U P P	RNDZ					
MS1 E. LU	MW I I C S R O	P S R L E E E P	EXERCISE		PRE SLEEP				SLEEP(7.0)				DSO 493	POST SLEEP	RNDZ					
MS2 R. MASTRACCHIO	⊕	PRE SLEEP - GIRA						SLEEP(7.0)				DSO 493	POST SLEEP - SH							
MS3 D. BURBANK		PRE SLEEP						SLEEP(7.0)				DSO 493	POST SLEEP							
MS4 Y. MALENCHENKO		PRE SLEEP						SLEEP(7.0)				DSO 493	POST SLEEP							
MS5 B. MORUKOV		PRE SLEEP - SH						SLEEP(7.0)				DSO 493	POST SLEEP - GIRA							
MCC-H																				
MCC-N																				
STS ATT	SOAR INRTL																			
ISS ATT	BIAS +ZLV +XVV																			
DAY/NIGHT	+ZLV -XVV																			
ORBIT	NH																			
DAILY ORBIT	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
TDRS	E (-47) W (-171)																			
RGS CMD																				
RGS TLM																				
NOTES	⊕EXERCISE																			

GMT 09/10/00
 BETA ANG = -44.0
 MET Day 002



FD03 CDR T. WILCUTT	PRE SLEEP ▲	PMC OCA	PRE SLEEP	SLEEP						FD04	DSO 493	POST SLEEP
PLT S. ALTMAN			PRE SLEEP	SLEEP						DSO 493	POST SLEEP	
MS1 E. LU	EXERCISE	PRE SLEEP		SLEEP						DSO 493	POST SLEEP	
MS2 R. MASTRACCHIO			PRE SLEEP	SLEEP						DSO 493	POST SLEEP	
MS3 D. BURBANK			PRE SLEEP	SLEEP						DSO 493	POST SLEEP	
MS4 Y. MALENCHENKO			PRE SLEEP	SLEEP						DSO 493	POST SLEEP	
MS5 B. MORUKOV			PRE SLEEP	SLEEP						DSO 493	POST SLEEP - GIRA	
MCC-H	NCS-N1-2-R2-UPLD			ISS SURVEY						NCS-N1-1-R2-UPLD		
MCC-M	MONITOR PRESSURES											
STS ATT	BIAS +ZPH -XNN MPA											
ISS ATT	BIAS +XPH -ZNN MPA											
DAY/NIGHT	[Shaded bars indicating day/night cycle]											
ORBIT	32	33	34	35	36	37	38	39	40			
DAILY ORBIT	6	7	8	9	10	11	12	13	14			
TDRS	E (-47) W (-171)											
RGS CMD												
RGS TLM												
NOTES	▲EXERCISE											

GMT 09/11/00
 BETA ANG = -43.2
 MET Day 002

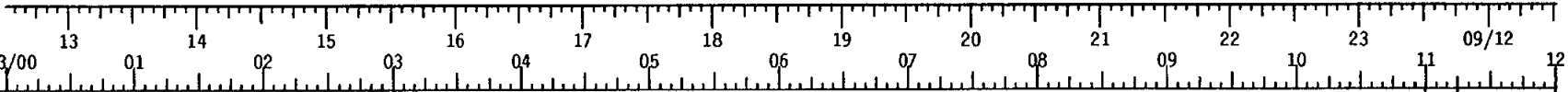


CDR T. WILCUTT	POST SLEEP	PMC OCA	POST SLEEP	1 0 2 M N T	φ	EXERCISE	P/TV 23 S/U	P/TV 23 OPS	MEAL				MP AW GR RD N	RM BN SV TR	REBOOST				
PLT S. ALTMAN	POST SLEEP			MM N V A R		EXERCISE		14.7 CAB REPR	SORTIE SETUP (RMS)	MAGNETOMETER (RMS)	FGB-SM CABLE (RMS)	SORTIE CLEANUP (RMS)	A I N L G R S	P/TV 26 S/U	OR DC S F G	REBOOST			
MS1/EV1 E. LU	POST SLEEP	PMC OCA	EVA PREP			EMU PURGE P/B	A/L DPRS	PE S G T R E D E S S	SORTIE SETUP	MAGNETOMETER	FGB-SM CABLE INSTALL	SORTIE CLEAN UP	A I N L G R S	A/L RPRS	POST EVA W/O H2O				
MS2 R. MASTRACCHIO	POST SLEEP		EXERCISE			POST SLEEP	RM S H T R	EPCS SETUP	B/U EPCS HDRV C/O	RP M S R U P	PE S G T R E D E S S	SORTIE SETUP (RMS)	MAGNETOMETER (RMS)	FGB-SM CABLE (RMS) EVA (6:30)	SORTIE CLEANUP (RMS)	A I N L G R S	RP M W R D N	PST EVA SH CFG	RTRN SAFER
MS3 D. BURBANK	POST SLEEP		EVA PREP			EMU PURGE P/B +	A/L DPRS	PE S G T R E D E S S	SORTIE SETUP (IV)	MAGNETOMETER (IV)	FGB-SM CABLE (IV)	SORTIE CLEANUP (IV)	A I N L G R S	A/L RPRS	POST EVA SPPT +				
MS4/EV2 Y. MALENCHENKO	POST SLEEP	PMC OCA	EVA PREP			EMU PURGE P/B	A/L DPRS	PE S G T R E D E S S	SORTIE SETUP	MAGNETOMETER	FGB-SM CABLE INSTALL	SORTIE CLEAN UP	A I N L G R S	A/L RPRS	POST EVA W/O H2O				
MS5 B. MORUKOV	POST SLEEP - GIRA	PMC OCA	POST SLEEP - GIRA	CG B A C K				EXERCISE		MEAL	P/TV 23 OPS				CG B A C K	POST EVA SPPT			

MCC-H	V I O I																
MCC-M	+																
STS ATT																	
ISS ATT																	
DAY/NIGHT																	
ORBIT	40	41	42	43	44	45	46	47	48								
DAILY ORBIT	14	15	16	1	2	3	4	5	6								
TDRS	E (-47)																
	W (-171)																
RGS CMD																	
RGS TLM																	

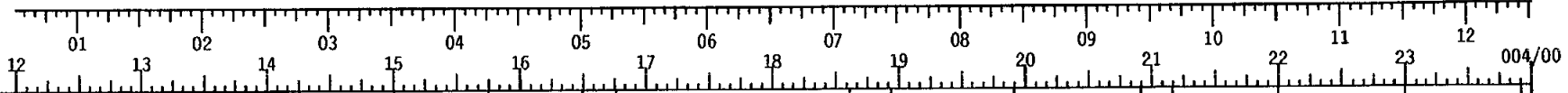
NOTES
 VNCS-N1-1-R2-UPLD φEVA INHIBIT PAD SM KBD PPK-CY - Op
 VNCS-N1-1-REINIT •EVA INHIBIT PAD SM KBD PO-PPK - Op
 *EVA INHIBIT PAD SM KBD PXO-CY-X - Op
 #MONITOR PRESSURES PROG KBD TKG-CY - Op

GMT 09/11/00
 BETA ANG = -42.1
 MET Day 003



FD04													FD05					
CDR T. WILCUTT	⊕	PMC OCA	PRE SLEEP						SLEEP						DSO 493	POST SLEEP		
PLT S. ALTMAN	♦	MM NVA R	SO POCA R	SO OAR C K	PRE SLEEP						SLEEP						DSO 493	POST SLEEP
MS1 E. LU		POST EVA W/O H2O	EMU REML	PRE SLEEP						SLEEP						DSO 493	POST SLEEP	
MS2 R. MASTRACCHIO	⊗	FRED STOW		PRE SLEEP - SH						SLEEP						DSO 493	POST SLEEP - SH	
MS3 D. BURBANK		POST EVA SPPT	EXERCISE		PRE SLEEP						SLEEP						DSO 493	POST SLEEP
MS4 Y. MALENCHENKO		POST EVA W/O H2O	EMU REML	PRE SLEEP						SLEEP						DSO 493	POST SLEEP	
MS5 B. MORUKOV		POST EVA SPPT	PRE SLEEP - GIRA						SLEEP						DSO 493	POST SLEEP - GIRA		
MCC-H																		
MCC-M																		
STS ATT																		
ISS ATT																		
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 (-47) W (-171)																		
RGS CMD																		
RGS TLM																		
NOTES	⊕REBOOST ♦REBOOST ⊗EXP RECNG																	

GMT 09/12/00
 BETA ANG = -40.9
 MET Day 003



CDR T. WILCUTT	POST SLEEP	MCC CM - M	ACT 2	DBAR ILEYF	PMA2 INGR	NODE 1 INGR	PMA1 INGR	FI GNBGR	SM INGRESS	SM BH1 BH2 S/U	MEAL	REMOVE RSTRNT BOLTS	IF NMSKTL	LOGSTC XFER	EXERCISE	XFER DEWAR		
PLT S. ALTMAN	POST SLEEP	MH2 VOR	WANSITTE	DBAR ILEYF	P/TV 21 S/U	WT ASTRM	MM PVAR	P/TV 21 OPS INGR SPT	GR EPR	P/TV 21 OPS INGR SPT	14.7 CAB REPR	MEAL	EXERCISE	PMA2 AIR MEASMT	MCI U*	S O A R C K	VTR PB S/U	VTR INGR PB
MS1 E. LU	POST SLEEP	ADBSAR ILEYF	PI ILEYF	PMA2 INGR	NODE 1 INGR	PMA1 INGR	FI GNBGR	SM INGRESS	SM PPK FAN	SM PPK DUCT	SM FAN ACT & CAPS	MEAL	XFER SM PTA6	LOGSTC XFER	PTA6-1M A301 INST	ADUEGRS ILOOYS		
MS2 R. MASTRACCHIO	POST SLEEP - SH	DBAR ILEYF	SHAB XFER PREP	EXERCISE	SHAB XFER PREP	TORU EQUIP REMOVAL	RTRN TORU	MEAL	112/113 STOW	LOGSTC XFER	XCFH EERCK							
MS3 D. BURBANK	POST SLEEP	EXERCISE	INGR SPPT W/ EPCS	FGB BD1 SM DUCTS	TORU EQUIP REMOVAL	RTRN TORU	MEAL	RMVL FGB PROB	PS RT OOBWE	CLEAR PNLS 107,108	XCFH EERCK							
MS4 Y. MALENCHENKO	POST SLEEP	ADBSAR ILEYF	PI ILEYF	PMA2 INGR	NODE 1 INGR	PMA1 INGR	FI GNBGR	SM INGRESS	PI RNR OGR	RMVL OGR PROB	MEAL	PROG U/L	RMVL FGB PROB	PS RT OOBWE	PTA6-1M A301 INST	EXER CISE		
MS5 B. MORUKOV	POST SLEEP - GIRA	EXERCISE	CGBAR ILEYF	P/TV 21 S/U	N1 PMA2 DUCTS	FGB AIR SAMP	FGB BD1, BD2 DUCTS	SM AIR SAMP	SM P XO FANS	SM P XO DUCT	MEAL	PROG U/L	XFER BUPT (3)	XCFH EERCK				

MCC-H														
MCC-M														
STS ATT	BIAS -XLV +YVV													
ISS ATT	BIAS -ZLV -YVV													
DAY/NIGHT	BIAS +ZPH -XNN MPA													
ORBIT	BIAS +XPH -ZNN MPA													
DAILY ORBIT	56	57	58	59	60	61	62	63	64					
TDRS	14	15	1	2	3	4	5	6	7					
RGS CMD														
RGS TLM														

NOTES

PTA CM - BKJ

▲NODE 1 LTS

ΔNODE 1 INV FAN ACT

φFGB UB1,2 FAN - ON

FGB KBD PFO-FA - CL

FGB KBD FA-PMA1 - CL

SM KBD PPK-CY - CL

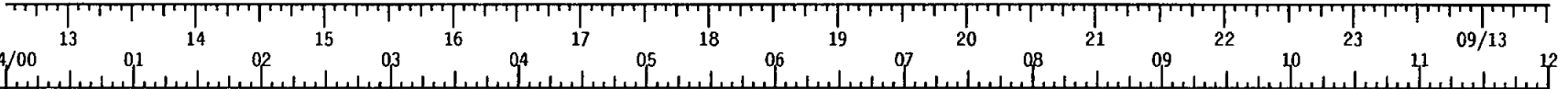
SM KBD PO-PPK - CL

SM KBD P XO-CY-X - C1

PROG KBD TKF-CY - C1

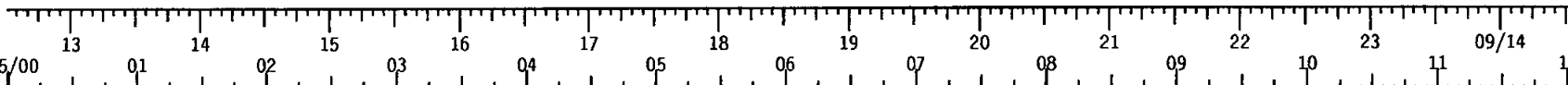
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GMT 09/12/00
 BETA ANG = -39.7
 MET Day 004



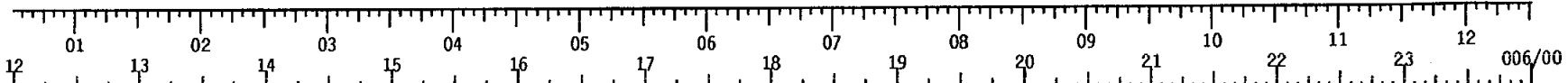
Activity	DB	AR	PS	ARRL	IEEP	EXERCISE	PRE SLEEP	SLEEP	POST SLEEP
CDR T. WILCUTT	DB	AR	PS	ARRL	IEEP		PRE SLEEP	SLEEP	POST SLEEP
PLT S. ALTMAN	VTR	INGR	PB				PRE SLEEP	SLEEP	POST SLEEP
MS1 E. LU	DB	AR	PS	ARRL	IEEP	EXERCISE	PRE SLEEP	SLEEP	POST SLEEP
MS2 R. MASTRACCHIO	DB	AR	PS	ARRL	IEEP		PRE SLEEP - SH	SLEEP	POST SLEEP - SH
MS3 D. BURBANK	DB	AR	PS	ARRL	IEEP		PRE SLEEP	SLEEP	POST SLEEP
MS4 Y. MALENCHENKO	EXER	CISE					PRE SLEEP	SLEEP	POST SLEEP
MS5 B. MORUKOV	DB	AR	PS	ARRL	IEEP		PRE SLEEP - GIRA	SLEEP	POST SLEEP - GIRA
ISS SURVEY									
MCC-H									
MCC-M									
STS ATT									
ISS ATT									
DAY/NIGHT									
ORBIT	64	65	66	67	68	69	70	71	72
DAILY ORBIT	7	8	9	10	11	12	13	14	15
TDRS									
RGS CMD									
RGS TLM									
NOTES	*SH CC *SH CC #PROG CC								

GMT 09/13/00
 BETA ANG = -36.7
 MET Day 005

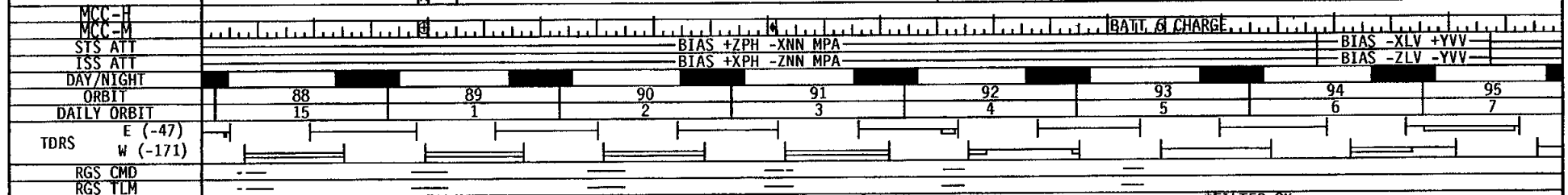


005/00	13	01	14	02	15	03	16	04	17	05	18	06	19	07	20	08	21	09	22	10	23	11	12	
CDR T. WILCUTT	DB AR II LE YF	PS RRL IEE EEP	PMCOCA	PRE SLEEP																		FD07	DSO 493	POST SLEEP
PLT S. ALTMAN	DB AR II LE YF			PRE SLEEP																			DSO 493	POST SLEEP
MS1 E. LU	DB AR II LE YF			PRE SLEEP																			DSO 493	POST SLEEP
MS2 R. MASTRACCHIO	DB AR II LE YF	XC FA IEL LRL *		PRE SLEEP - SH																			DSO 493	POST SLEEP - SH
MS3 D. BURBANK	DB AR II LE YF	XC FA IEL LRL *		PRE SLEEP																			DSO 493	POST SLEEP
MS4 Y. MALENCHENKO			EXERCISE	PRE SLEEP																			DSO 493	POST SLEEP
MS5 B. MORUKOV	DB AR II LE YF	XC FA IEL LRL #		PRE SLEEP - GIRA																			DSO 493	POST SLEEP - GIRA
MCC-H	BATT 4 CHARGE																							
MCC-M	BIAS +ZPH -XNN MPA																							
STS ATT	BIAS +XPH -ZNN MPA																							
ISS ATT																								
DAY/NIGHT	[Day/Night Cycle Diagram]																							
ORBIT	80	81	82	83	84	85	86	87																
DAILY ORBIT	7	8	9	10	11	12	13	14																
TDRS	E (-47)																							
	W (-171)																							
RGS CMD																								
RGS TLM																								
NOTES	*SH CC *SH CC #PROG CC																							

GMT 09/14/00
 BETA ANG = -35.1
 MET Day 005

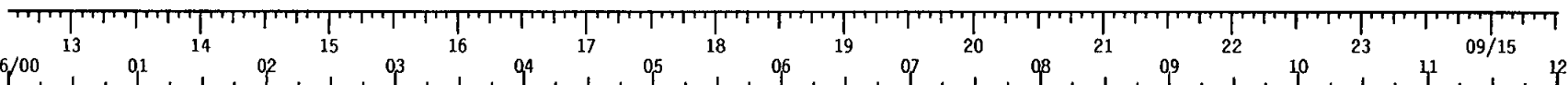


CDR T. WILCUTT	POST SLEEP	DB AR II LE YF	EXERCISE	XFER MMPT /HCF	RTRN FGB BATT 6	LOGSTC XFER	CWCS 113 TO 110	LOGSTC XFER	CWC XFER (2)	MEAL	CWC XFER (2)	LOGSTC XFER	XFER TVIS FAN	PAO SPT							
PLT S. ALTMAN	POST SLEEP	MM NV AR	DB AR II LE YF	CI WN ICT 5	P/TV 21 S/U	CT WE CRM 5	EXERCISE	P/TV21 PAO ISS TOUR	VTR PB S/U	VTR PB	CI WN ICT 6	MEAL	CT WE CRM 6	M C I U *	W C S *	S O A R C K	M H 2 V O R	W I N A S T T E	P/TV 21 S/U	W T A E R T M E	M M P V A R
MS1 E. LU	POST SLEEP	DB AR II LE YF	FGB BATT 6 R&R	MMPT 3PY 6 R&R	CT-25 INSTAL	ORLAN #2 RACK RMVL	LOGSTC XFER	MEAL	LOGSTC XFER	EXERCISE	TVIS FAN INST										
MS2 R. MASTRACCHIO	POST SLEEP - SH	DB AR II LE YF	XFER FGB BATT 6	LOGSTC XFER	EXERCISE	LOGSTC XFER	MEAL	LOGSTC XFER	EXERCISE	TVIS FAN INST											
MS3 D. BURBANK	POST SLEEP	DB AR II LE YF	BI AR M I G L E R Y F S	LOGSTC XFER	PROG U/L	LOGSTC XFER	MEAL	PROG U/L	EXERCISE	LOGSTC XFER	PE AV O E N T	EX C F H E R C K									
MS4 Y. MALENCHENKO	POST SLEEP	DB AR II LE YF	FGB BATT 6 R&R	MMPT 3PY 6 R&R	CT-25 INSTAL	ORLAN #2 RACK RMVL	RACK TEMP STOW	MEAL	LOGSTC XFER	EXERCISE											
MS5 B. MORUKOV	POST SLEEP - GIRA	CG BA I LE YF	DB AR II LE YF	PROG U/L	MEAL	PROG U/L	EXERCISE	PROG U/L	EXERCISE	PROG U/L	EX C F H E R C K										



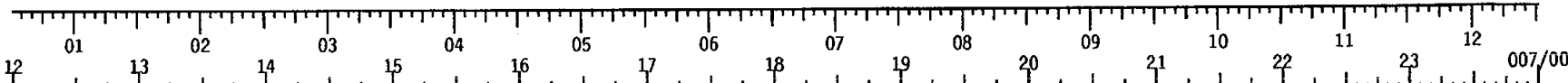
NOTES
 ⊕FGB BATT 6 PWRDN
 †FGB BATT 6 PWRUP
 *FILTER CK
 *WCS COMPACT OPS

GMT 09/14/00
 BETA ANG = -33.5
 MET Day 006



006/00	13	14	15	16	17	18	19	20	21	22	23	11	12	
CDR T. WILCUTT FD07	DB AR II LE YF	PRE SLEEP	PMC OCA	PRE SLEEP								FD08	DSO 493	POST SLEEP
PLT S. ALTMAN	DB AR II LE YF			PRE SLEEP									DSO 493	POST SLEEP
MS1 E. LU	DB AR II LE YF			PRE SLEEP									DSO 493	POST SLEEP
MS2 R. MASTRACCHIO	DB AR II LE YF	XC FA IEL LER L*		PRE SLEEP - SH									DSO 493	POST SLEEP - SH
MS3 D. BURBANK	DB AR II LE YF	XC FA IEL LER L*		PRE SLEEP									DSO 493	POST SLEEP
MS4 Y. MALENCHENKO	DB AR II LE YF			PRE SLEEP									DSO 493	POST SLEEP
MS5 B. MORUKOV	DB AR II LE YF	XC FA IEL LER L*	CG BA CK	PRE SLEEP - GIRA									DSO 493	POST SLEEP - GIRA
MCC-H	BATT. & CHARGE													
MCC-M	BIAS +ZPH -XNN MPA													
STS ATT	BIAS +XPH -ZNN MPA													
ISS ATT														
DAY/NIGHT	[Bar chart showing day/night cycles]													
ORBIT	95	96	97	98	99	100	101	102	103					
DAILY ORBIT	7	8	9	10	11	12	13	14	15					
TDRS	[Bar chart showing TDRS events]													
RGS CMD	[Bar chart showing RGS CMD events]													
RGS TLM	[Bar chart showing RGS TLM events]													
NOTES	*SH CC *SH CC #PROG CC													

GMT 09/15/00
 BETA ANG = -31.7
 MET Day 006



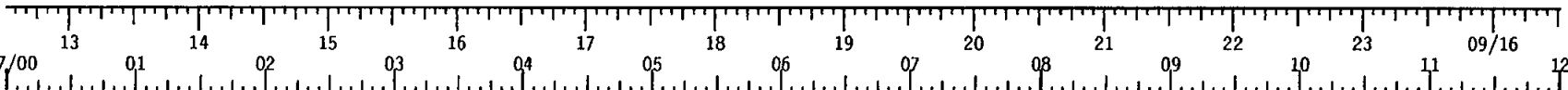
CDR T. WILCUTY	POST SLEEP		DB AR II LE YF	LOGSTC XFER	EXERCISE	LOGSTC XFER	MEAL	LOGSTC XFER				P/TV 21 S/U	PE AV OEN T
PLT S. ALTMAN	POST SLEEP		MM NP VA R	DB AR II LE YF	TVIS ASSY PREP	TVIS ASSEMBLY	MEAL	TVIS CAGE ASSEMBLY	TVIS INSTALL	C I W N C I T 7	S O A R C K	C T W E R M 7	EXERCISE
MS1 E. LU	POST SLEEP	EXERCISE	DB AR II LE YF	TVIS ASSY PREP	TVIS ASSEMBLY	MEAL	TVIS CAGE ASSEMBLY	TVIS INSTALL	LOGSTC XFER			PE AV OEN T	
MS2 R. MASTRACCHIO	POST SLEEP - SH		DB AR II LE YF	LOGSTC XFER		EXERCISE	LOGSTC XFER	MEAL	M C I U *	LOGSTC XFER			X C F H E E R C K
MS3 D. BURBANK	POST SLEEP		DB AR II LE YF	EXERCISE	POST TVIS ASSY PREP	LOGSTC XFER	MEAL	LOGSTC XFER	POST CAGE ASSY	POST TVIS INSTALL	LOGSTC XFER	EX C F H E E R C K	
MS4 Y. MALENCHENKO	POST SLEEP		DB AR II LE YF	H R C E P L	R T R N H C F M P T	LOGSTC XFER		MEAL	LOGSTC XFER	EXERCISE	LOGSTC XFER		
MS5 B. MORUKOV	POST SLEEP - GIRA		C G B A C Y K	DB AR II LE YF	TVIS ASSY PREP	TVIS ASSEMBLY	MEAL	TVIS CAGE ASSEMBLY	TVIS INSTALL	EXERCISE	PROGRESS STOW	X C F H E E R C K	

MCC-H											
MCC-M											
STS ATT											
ISS ATT											
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 (-47) W (-171)										
RGS CMD											
RGS TLM											

@FGB @BN - OFF *FILTER CK

NOTES

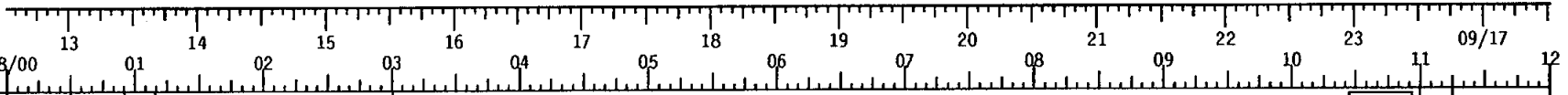
GMT 09/15/00
 BETA ANG = -29.8
 MET Day 007



FD08												FD09							
CDR T. WILCUTT	DB AR II LE YF	PRE SLEEP	PMC OCA	PRE SLEEP											SLEEP	DSO 493	POST SLEEP		
PLT S. ALTMAN	DB AR II LE YF	PRE SLEEP													SLEEP	DSO 493	POST SLEEP		
MS1 E. LU	DB AR II LE YF	PRE SLEEP													SLEEP	DSO 493	POST SLEEP		
MS2 R. MASTRACCHIO	DB AR II LE YF	X C F A L E L R L * YF	PRE SLEEP - SH													SLEEP	DSO 493	POST SLEEP - SH	
MS3 D. BURBANK	DB AR II LE YF	X C F A L E L R L * YF	PRE SLEEP													SLEEP	DSO 493	POST SLEEP	
MS4 Y. MALENCHENKO	DB AR II LE YF	PRE SLEEP													SLEEP	DSO 493	POST SLEEP		
MS5 B. MORUKOV	DB AR II LE YF	X C F A L E L R L * YF	# C G E A L C K	PRE SLEEP - GIRA													SLEEP	DSO 493	POST SLEEP - GIRA

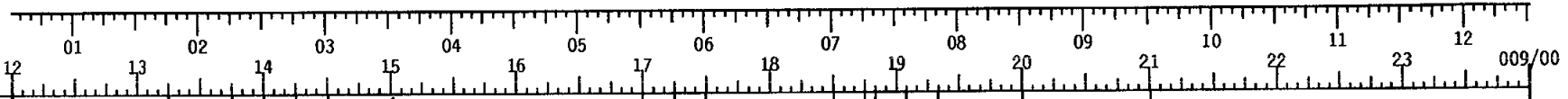
MCC-H															
MCC-M															
STS ATT															
ISS ATT															
DAY/NIGHT															
ORBIT	111	112	113	114	115	116	117	118	119						
DAILY ORBIT	7	8	9	10	11	12	13	14	15						
TDRS	E (-47) W (-171)														
RGS CMD															
RGS TLM															
NOTES	*SH CC *SH CC #PROG CC														

GMT 09/16/00
 BETA ANG = -26.0
 MET Day 008



CDR T. WILCUTT	FD09	RNDZ PGSC S/U	PRE SLEEP	PMC DCA	PRE SLEEP	SLEEP	FD10	DSO 493	POST SLEEP
PLT S. ALTMAN		C&W CFG 3,4	GR EEP R	PRE SLEEP	AD PE CA UCT 2	PRE SLEEP		DSO 493	POST SLEEP
MS1 E. LU		RNDZ PGSC S/U			PRE SLEEP	SLEEP		DSO 493	POST SLEEP
MS2 R. MASTRACCHIO					PRE SLEEP - SH	SLEEP		DSO 493	POST SLEEP - SH
MS3 D. BURBANK					PRE SLEEP	SLEEP		DSO 493	POST SLEEP
MS4 Y. MALENCHENKO					PRE SLEEP	SLEEP		DSO 493	POST SLEEP
MS5 B. MORUKOV					PRE SLEEP - GIRA	SLEEP		DSO 493	POST SLEEP - GIRA
MCC-H									
MCC-M									
STS ATT									
ISS ATT									
DAY/NIGHT									
ORBIT									
DAILY ORBIT									
TDRS									
RGS CMD									
RGS TLM									
NOTES					*NODE 1 CAB FAN DEACT ⊕NODE 1 DRYOUT ⊙N1 INT LIGHT PWR OFF			⊕CONFIG MDM ⊕N1/PMA1 HTR RECONFG	UNDC

GMT 09/17/00
 BETA ANG = -23.8
 MET Day 008



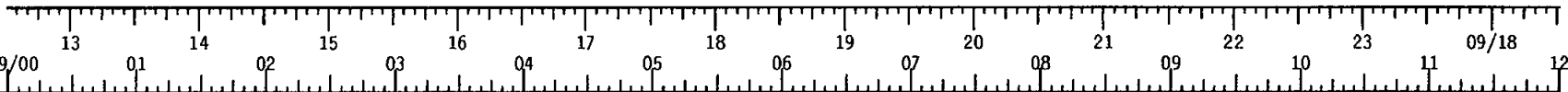
CDR T. WILCUTT	POST SLEEP	RNDZ TOOLS C/O	GP RW PR UP B	-- ZX LV VV	UNDOCK/SEP OPS	MH N2 VOM R	SI MI OT	MEAL	ST IE MR OM	MS NO VARR	FS OU TARR	OFF DUTY	EXERCISE	OFF DUTY
PLT S. ALTMAN	POST SLEEP	RNDZ TOOLS C/O	GP RW PR UP B		UNDOCK/SEP OPS	C O M M *	GP RW PR DN	MEAL	MP AW GR RU P		EXERCISE		OFF DUTY	
MS1 E. LU	POST SLEEP	C/L CMR MOUNT	EMU INSTAL		UNDOCK/SEP OPS	S O A R C K	GP RW PR DN	MEAL				OFF DUTY		EXERCISE
MS2 R. MASTRACCHIO	POST SLEEP - SH		M C I U *	EPCS DEACT	UNDOCK/SEP OPS	M P M S T O	PAO SPT	MEAL				OFF DUTY	EXERCISE	OFF DUTY
MS3 D. BURBANK	POST SLEEP	C/L CMR MOUNT	EMU INSTAL		UNDOCK/SEP OPS	O D E A C T		MEAL				OFF DUTY		PRE SLEEP
MS4 Y. MALENCHENKO	POST SLEEP		P/TV 25 S/U		P/TV 25 OPS		P E A V O E N T	MEAL				OFF DUTY	EXERCISE	OFF DUTY
MS5 B. MORUKOV	POST SLEEP - GIRA		C G B A C K		UNDOCK/SEP OPS	P O / T S / U	P E A V O E N T	MEAL				OFF DUTY		

MCC-H														
MCC-M														
STS ATT	BIAS +ZPH -XNN MPA -ZLV -XVV FLY -ZLV +YVV BIAS -ZPH -XNN													
ISS ATT	BIAS +XPH -ZNN MPA TOSK +XPH +ZNN TEA (+XVV)													
DAY/NIGHT	[Shaded blocks representing day/night cycle]													
ORBIT	135	136	137	138	139	140	141	142						
DAILY ORBIT	16	1	2	3	4	5	6	7	8					
TDRS	E (-47) W (-171) [Timeline with bars]													
RGS CMD	[Timeline with bars]													
RGS TLM	[Timeline with bars]													

NOTES

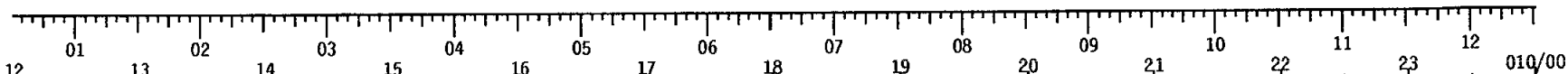
▼ACS-PRE-DEPART-MODE
 ▲CONFIG MDM UNDOCK
 φSM SA POS-1
 •FGB SA POS-2
 *FILTER CK
 ▲UNDOCK @ 8/14:59
 *STRING 1 C/O (PT A)

GMT 09/17/00
 BETA ANG = -21.9
 MET Day 009

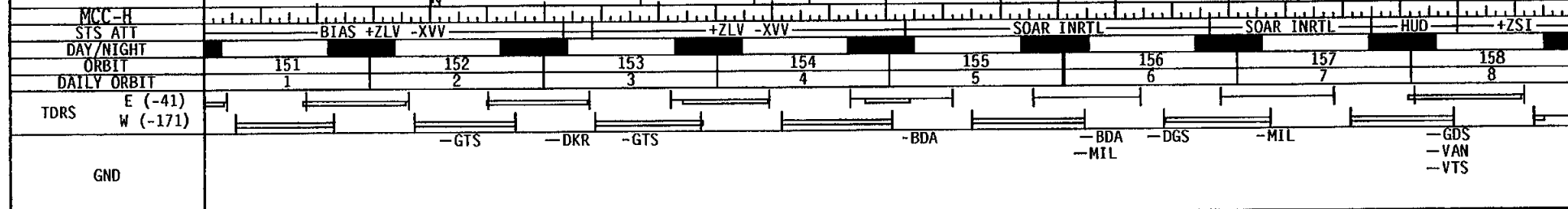


CDR T. WILCUTT	FD10	PRE SLEEP	PFC OCA	PMO OCA	SLEEP	FD11	DSO 493	POST SLEEP	
PLT S. ALTMAN	M A G R C K	PFC OCA	PRE SLEEP		SLEEP		DSO 493	POST SLEEP	
MS1 E. LU		PRE SLEEP	PFC OCA	PRE SLEEP	SLEEP		DSO 493	POST SLEEP	
MS2 R. MASTRACCHIO		PRE SLEEP - SH	PFC OCA	PRE SLEEP - SH	SLEEP		DSO 493	POST SLEEP - SH	
MS3 D. BURBANK		EXERCISE	PFC OCA	PRE SLEEP	SLEEP		DSO 493	POST SLEEP	
MS4 Y. MALENCHENKO		PFC OCA	PRE SLEEP		SLEEP		DSO 493	POST SLEEP	
MS5 B. MORUKOV		PRE SLEEP	PFC OCA	PRE SLEEP - GIRA	SLEEP		DSO 493	POST SLEEP - GIRA	
MCC-H		BIAS -ZPH -XNN			BIAS +ZLV -XVV				
STS ATT		[Shaded bar representing STS ATT]							
DAY/NIGHT		[Shaded bar representing DAY/NIGHT]							
ORBIT		143	144	145	146	147	148	149	150
DAILY ORBIT		8	9	10	11	12	13	14	15
TDRS	E (-41) W (-171)	[Timeline with TDRS event markers]							
GND		GDS -VAN -VTS	-VTS -DKR	-BDA	-GTS GDS -MIL	-BDA GDS -VAN -VTS	-GDS -VAN -VTS	-DGS -VAN -VTS	-DGS
NOTES									

GMT 09/18/00
 BETA ANG = -19.8
 MET Day 009

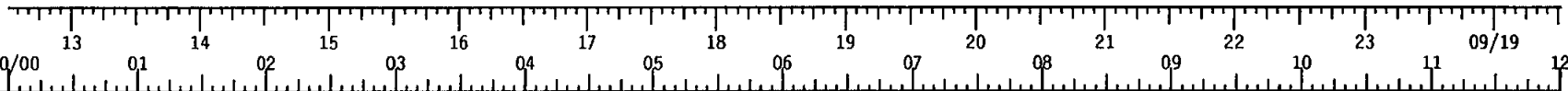


CDR T. WILCUTT	POST SLEEP	FCS C/O	RCS H/F	MS NO VARR	FS O U A R R	CABIN STOW	CREW PHOTO	CREW CONF	MEAL	D/O BRIEF	L-1 COMM CHK	PILOT OPS	MS NO VARR	EXERCISE	HM UNDR	HUD CAL	+ZSI	F-UZTLRV	CABIN STOW
PLT S. ALTMAN	POST SLEEP	POST SLEEP	FCS C/O	RCS H/F	CABIN STOW	GZ P/8 SRT OVZ	POD/8 ACT	CREW PHOTO	CREW CONF	MEAL	D/O BRIEF	PILOT SETUP	PO PLS OT	EXERCISE	FILTER CLEANING	SOAR DEACT & STOW	MAGRCK	CABIN STOW	ERGO STOW
MS1 E. LU	POST SLEEP	EXERCISE	SPACEHAB STOW	SCH/4 AEV/U	PO/4 TS/V	CREW PHOTO	CREW CONF	MEAL	D/O BRIEF	CABIN STOW	POST EVA ENT PREP	CABIN STOW	SHAB MOD TEARDOWN	PO/7 TV	MW ICS RO				
MS2 R. MASTRACCHIO	POST SLEEP - SH	SPACEHAB STOW	EXERCISE	SPACEHAB STOW	CREW PHOTO	CREW CONF	MEAL	D/O BRIEF	COMM*	CABIN STOW	PO PLS OT	CABIN STOW	SHAB MOD TEARDOWN	CS AT BO I W D	KS TUT -O B W D				
MS3 D. BURBANK	POST SLEEP	FCS C/O	RCS H/F	CABIN STOW	CREW PHOTO	CREW CONF	MEAL	D/O BRIEF	CABIN STOW	POST EVA ENT PREP	CABIN STOW	EXERCISE	OCA S-BD S/U						
MS4 Y. MALENCHENKO	POST SLEEP	SPACEHAB STOW	CREW PHOTO	CREW CONF	MEAL	D/O BRIEF	EXERCISE	POST EVA ENT PREP	CABIN STOW										
MS5 B. MORUKOV	POST SLEEP - GIRA	SPACEHAB STOW	EXERCISE	CREW PHOTO	CREW CONF	MEAL	D/O BRIEF	CABIN STOW	H2O TANK CFG	CABIN STOW	ERGO STOW								



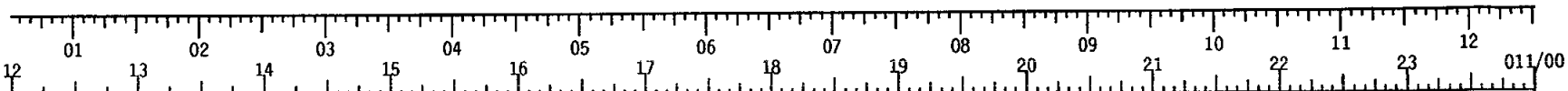
NOTES
 OAPU HTR ACT
 *STRING 1 C/O (PT B) VL-I B/U
 *GALLEY SAMPLE

GMT 09/18/00
 BETA ANG = -17.7
 MET Day 010

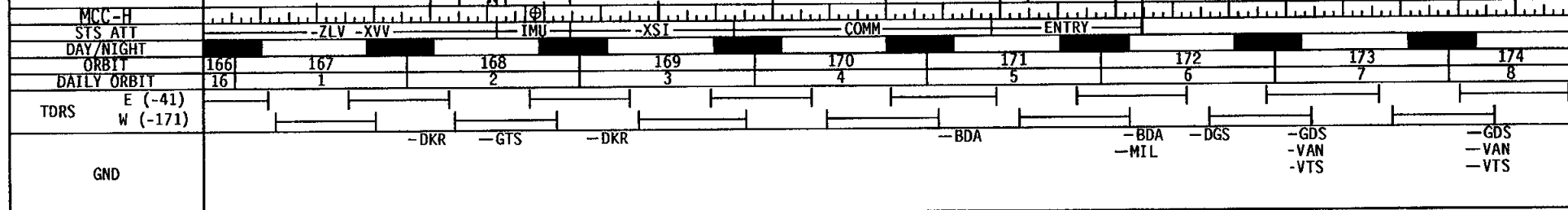


CDR T. WILCUTT	PMC A/G	PRE SLEEP	SLEEP	FD12	DSO 493	POST SLEEP			
PLT S. ALTMAN		PRE SLEEP	SLEEP		DSO 493	POST SLEEP			
MS1 E. LU		PRE SLEEP	SLEEP		DSO 493	POST SLEEP			
MS2 R. MASTRACCHIO		PRE SLEEP - SH	SLEEP		DSO 493	POST SLEEP - SH			
MS3 D. BURBANK		PRE SLEEP	SLEEP		DSO 493	POST SLEEP			
MS4 Y. MALENCHENKO		PRE SLEEP	SLEEP		DSO 493	POST SLEEP			
MS5 B. MORUKOV		PRE SLEEP - GIRA	SLEEP		DSO 493	POST SLEEP - GIRA			
MCC-H		+ZSI					-ZLV -XVV		
STS ATT									
DAY/NIGHT		[Day/Night Cycle]							
ORBIT		159	160	161	162	163	164	165	166
DAILY ORBIT	8	9	10	11	12	13	14	15	16
TDRS	E (-41) W (-171)	[TDRS Schedule]							
GND		-GDS -DKR -VAN -VTS	-BDA -DKR	-GTS -MIL	-GTS -GDS -MIL -VAN -VTS	-GDS -VAN -VTS	-DGS		
NOTES		*MICRO WIS							

GMT 09/19/00
 BETA ANG = -15.5
 MET Day 010



CDR T. WILCUTT	POST SLEEP	PMC A/G	GP RW PR UP	IMU ALIGN /VERIF	-M X N S V I R	DEORBIT PREP	D / O B U R N * * * *	K S C L A N D I N G
PLT S. ALTMAN	POST SLEEP	ME AN GT RR RY	GP RW PR UP			DEORBIT PREP		
MS1 E. LU	POST SLEEP	SH ENTRY PREP				DEORBIT PREP		
MS2 R. MASTRACCHIO	POST SLEEP - SH	SH ENTRY PREP				DEORBIT PREP		
MS3 D. BURBANK	POST SLEEP	OS CT AO CW	PS GT SO CW	SP TR ON WT R		DEORBIT PREP		
MS4 Y. MALENCHENKO	POST SLEEP					DEORBIT PREP		
MS5 B. MORUKOV	POST SLEEP - GIRA	GS IT RO AW	TO EF OP FC	OT GK B AC CF CK		DEORBIT PREP		



NOTES

*AIR SAMPL
 @FC PURGE-AUTO

*D/O BURN
 MET: 10/19:14

*KSC LANDING
 MET: 10/20:14

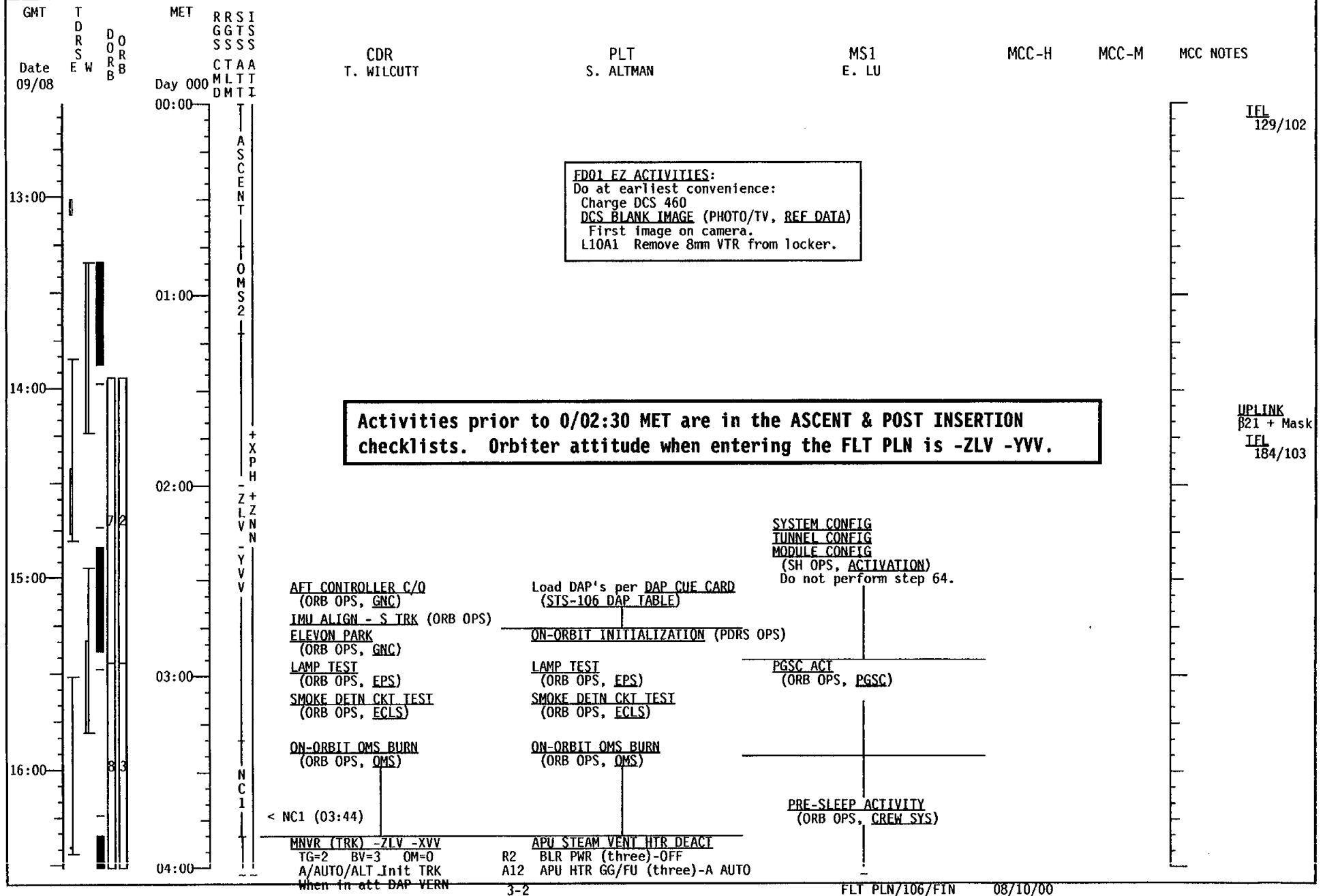
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DETAILED TIMELINE

DETAILED
TIMELINE

DETAILED TIMELINE

STS-106 (FD01)



FD01 EZ ACTIVITIES:
 Do at earliest convenience:
 Charge DCS 460
DCS BLANK IMAGE (PHOTO/TV, REF DATA)
 First image on camera.
 L10A1 Remove 8mm VTR from locker.

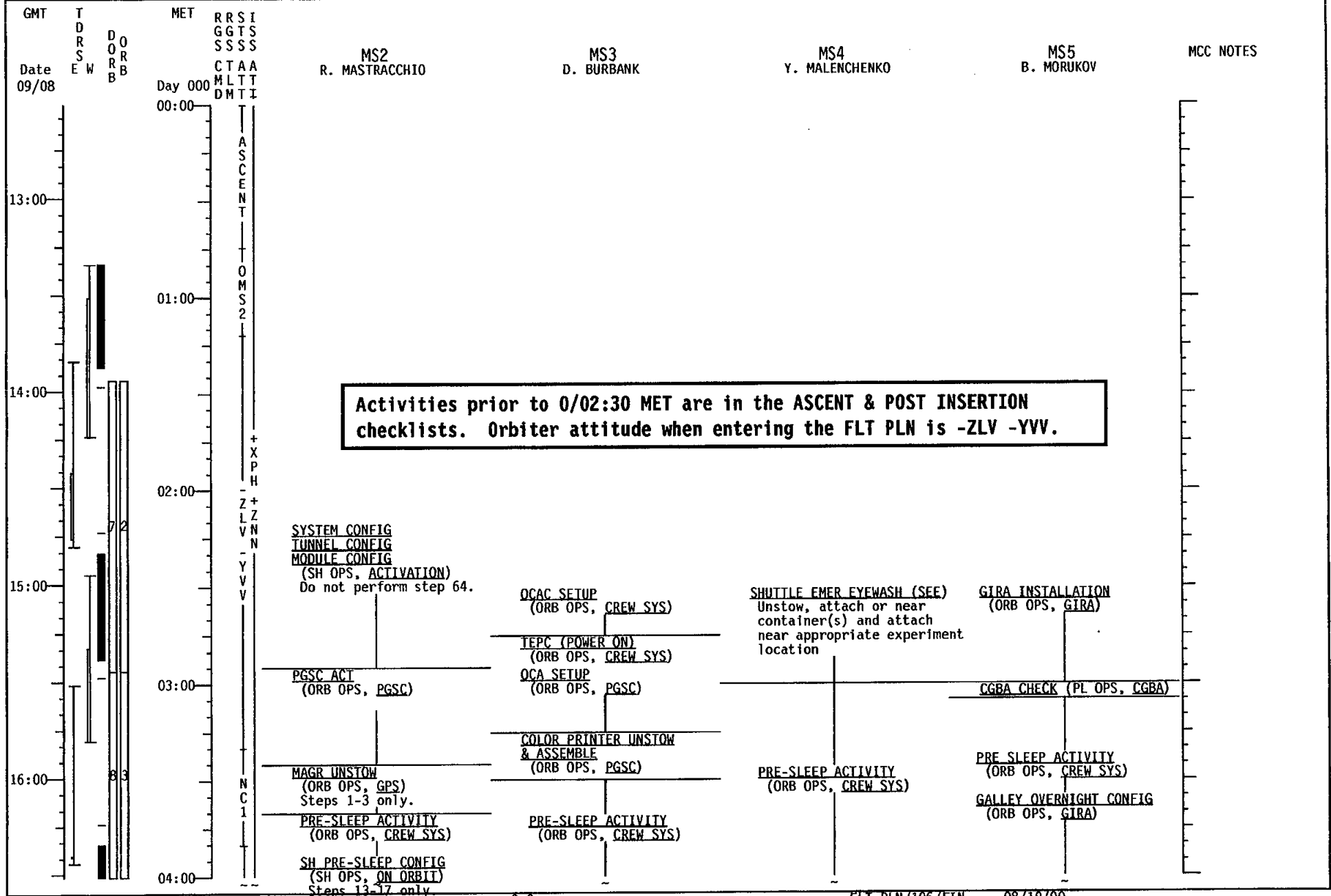
Activities prior to 0/02:30 MET are in the ASCENT & POST INSERTION checklists. Orbiter attitude when entering the FLT PLN is -ZLV -YVV.

TEL
129/102

UPLINK
B21 + Mask
TEL
184/103

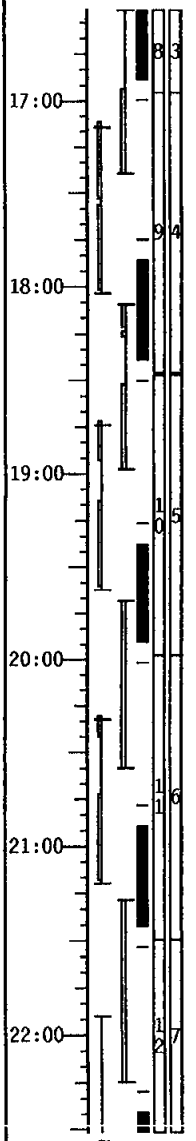
FLT PLN/106/FIN 08/10/00

STS-106 (FD01)

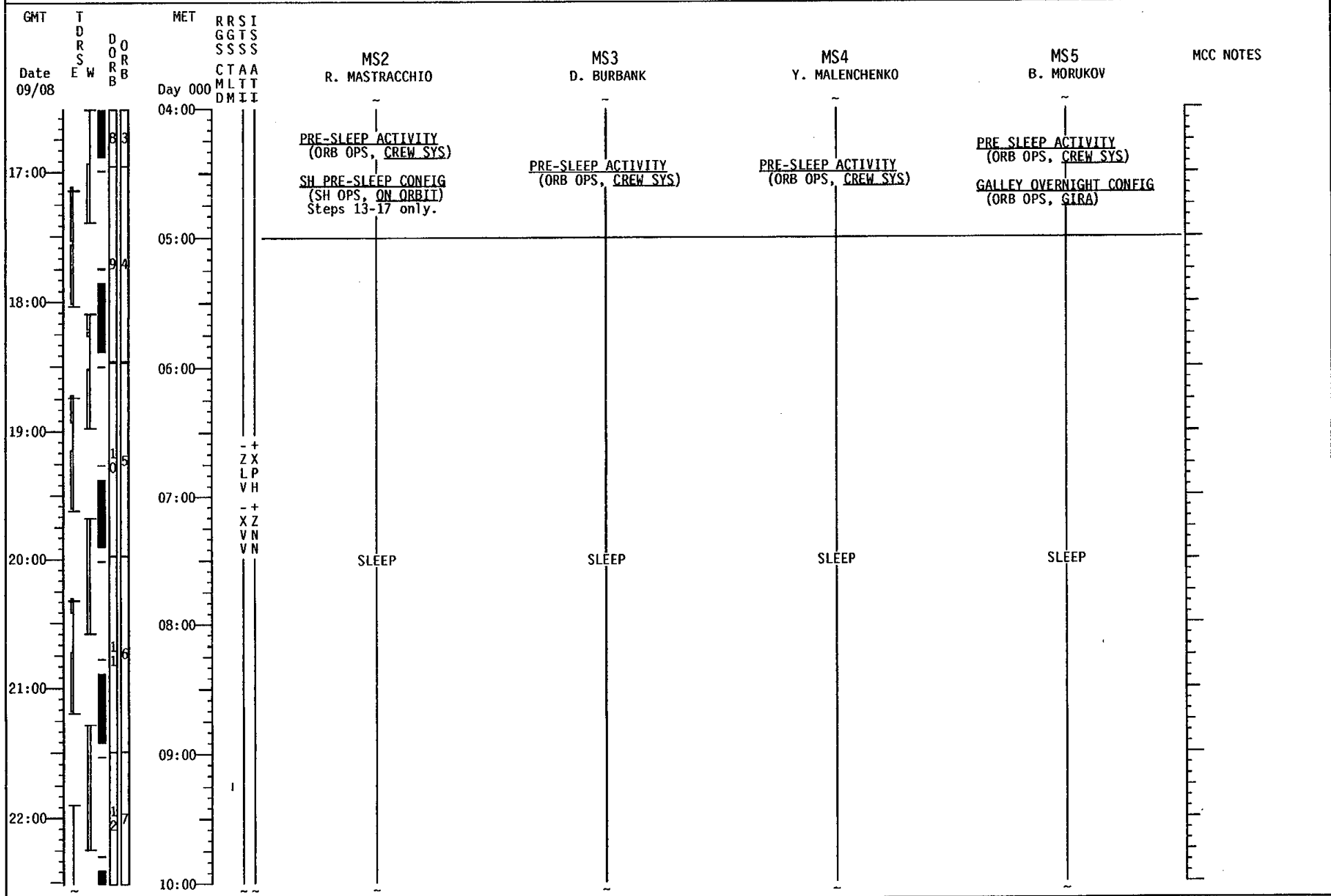


STS-106 (FD01)

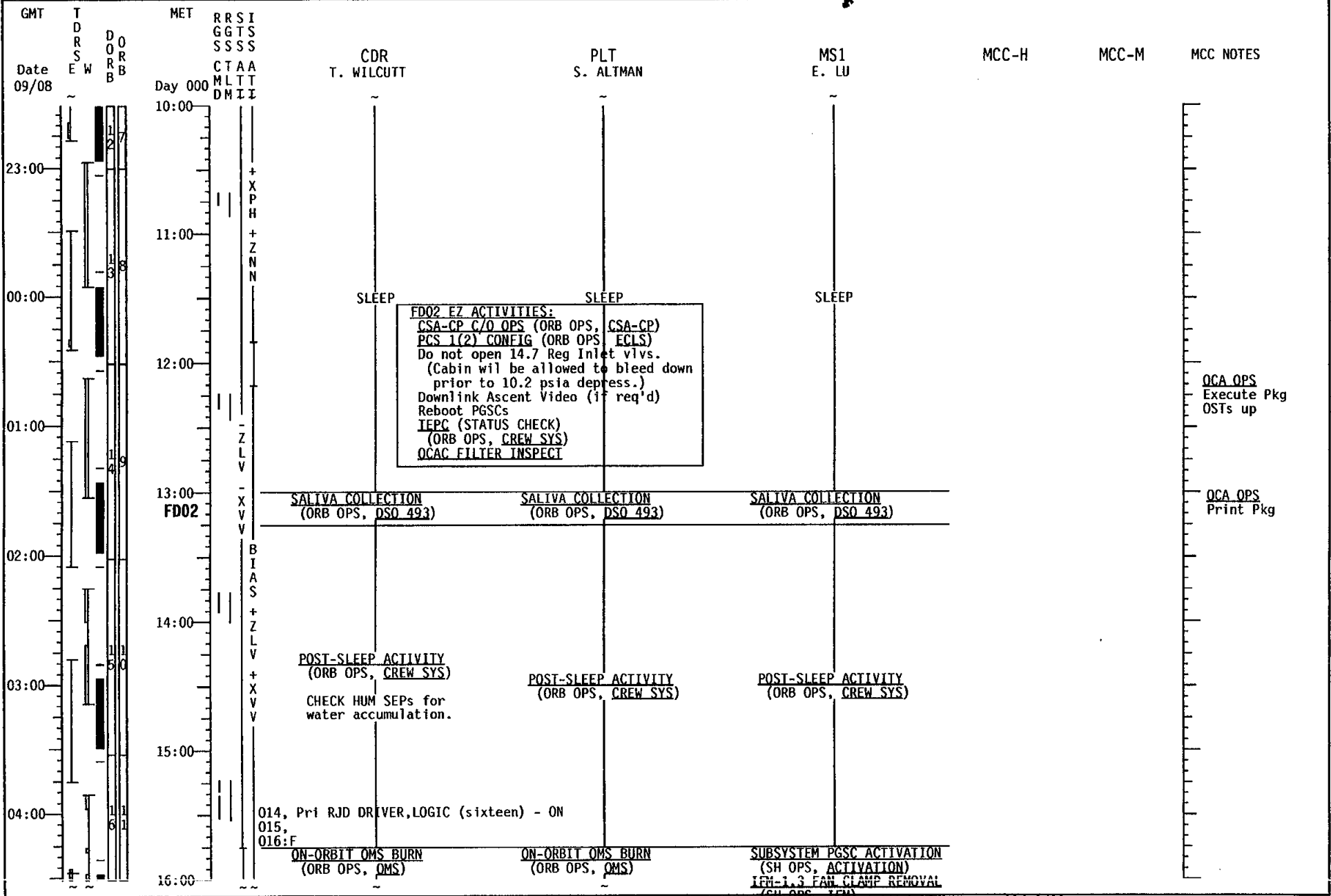
GMT Date 09/08	T D R S E W	MET Day 000	RRSI GGTS SSSS CTAA MLTT DMII	CDR T. WILCUTT	PLT S. ALTMAN	MS1 E. LU	MCC-H	MCC-M	MCC NOTES
				-	-	-			
				06 ✓ UHF MODE - OFF PRIVATE MEDICAL CONFERENCE	PRIORITY PWRDN GRP B (ORB PKT, PRIOR PWRDN) Steps 5,6,7,9,10,11 only. NBAT 1111	PRIORITY PWRDN GRP B (ORB PKT, PRIOR PWRDN) Steps 5,6,7,9,10,11 only. NBAT 1111			
				PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
				SLEEP	SLEEP	SLEEP			
			- + Z X L P V H - + X Z V N V N						OCA OPS OSTs down



STS-106 (FD01)



STS-106 (FD02)



STS-106 (FD02)

GMT Date 09/08	TDRS S E W	DOR O R B	MET Day 000	RRSI GGTS SSSS CTAA MLTT DMI	MS2 R. MASTRACCHIO	MS3 D. BURBANK	MS4 Y. MALENCHENKO	MS5 B. MORUKOV	MCC NOTES
23:00				+ X P H	SLEEP	SLEEP	SLEEP	SLEEP	
00:00				+ Z N N	SLEEP	SLEEP	SLEEP	SLEEP	
01:00				- Z L V	SLEEP	SLEEP	SLEEP	SLEEP	
02:00			13:00 FD02	- X V V	SALIVA COLLECTION (ORB OPS, DSO 493)	SALIVA COLLECTION (ORB OPS, DSO 493)	SALIVA COLLECTION (ORB OPS, DSO 493)	SALIVA COLLECTION (ORB OPS, DSO 493)	
03:00				B I A S	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
04:00				+ Z L V	SH POST SLEEP CONFIG (SH OPS, ON ORBIT) Steps 1-4 only.	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	GALLEY MORNING CONFIG (ORB OPS, GIRA)	
16:00				+ X V V	A8L PORT RMS HTR (two) - AUTO L17 Check MCIU filter screen SUBSYSTEM PGSC ACTIVATION (SH OPS, ACTIVATION) IFM-1.3 FAN CLAMP REMOVAL (SH OPS, IFM) ARS Fan only.			P/TV03 MDDK SETUP (PHOTO/TV, P/TV SCENES) Spacehab ingress.	

STS-106 (FD02)

GMT Date 09/09	T D R S E W	D O R B	MET Day 000	RRSI GGTS SSSS CTAA MLTT DMII	CDR T. WILCUTT	PLT S. ALTMAN	MS1 E. LU	MCC-H	MCC-M	MCC NOTES
16:00				I N C 2	ON-ORBIT OMS BURN (ORB OPS, OMS) <NC2 (16:11)	ON-ORBIT OMS BURN (ORB OPS, OMS)	SUBSYSTEM PGSC ACTIVATION (SH OPS, ACTIVATION) IEM-1,3 FAN CLAMP REMOVAL (SH OPS, IFM) ARS Fan only.			
05:00					DAP: A/AUTO/ALT, Init TRK When in att DAP VERN 014, Pri RJD DRIVER, 015, PGSC SETUP LOGIC (sixteen) - OFF 016:F (RNDZ, RNDZ TOOLS)	PGSC SETUP (RNDZ, RNDZ TOOLS)	PGSC SETUP (RNDZ, RNDZ TOOLS)			
17:00					RNDZ TOOLS CHECKOUT (RNDZ, RNDZ TOOLS)	RNDZ TOOLS CHECKOUT (RNDZ, RNDZ TOOLS)	EMU CHECKOUT (EVA, CHECKOUTS) EMUs 3 & 2 Perform HEATED GLOVE C/O & EMU SWAP DURING C/O			FGB φ8π Act SM Bπ Act
06:00				Z L B I - A X S V + V Z L V + X V V	MAGR UNSTOW (ORB OPS, GPS) Steps 4-14	RMS CHECKOUT (PDRS OPS, RMS C/O) Steps 1-7 only.				
18:00					MAGR ONORBIT SETUP (ORB OPS, GPS)					
07:00						RMS PLB SURVEY Ref. P/TV01	EMU CHECKOUT (EVA, EMU CHECKOUT) EMU 1 Perform HEATED GLOVE C/O			
19:00					014, Pri RJD DRIVER, LOGIC (sixteen) - ON 015, 016:F ON-ORBIT +X RCS BURN (ORB OPS, RCS)	ON-ORBIT +X RCS BURN (ORB OPS, RCS)				
08:00				N P C	<NPC (19:22)					
20:00					MNVR (TRK) -ZLV +YVV TG=2 BV=3 OM=270 A/AUTO/ALT Init TRK (19:30) When in att DAP VERN 014, Pri RJD DRIVER, 015, LOGIC (sixteen) - OFF 016:F	SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Initiate Waste Dump				

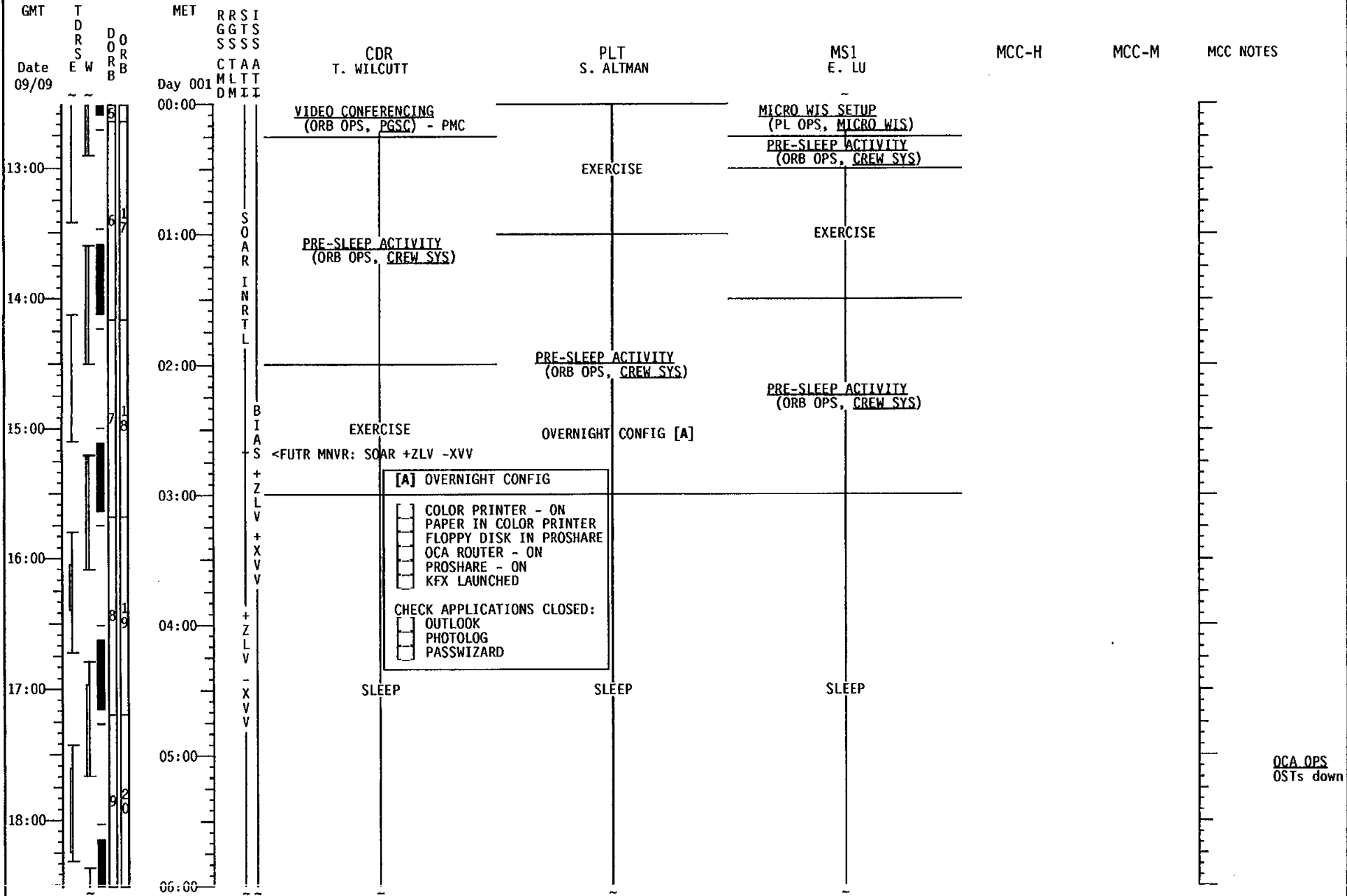
STS-106 (FD02)

GMT	TDRS Date 09/09	DORB	MET Day 000	RRSI GGTS SSSS CTAA MLTI DMII	MS2 R. MASTRACCHIO	MS3 D. BURBANK	MS4 Y. MALENCHENKO	MS5 B. MORUKOV	MCC NOTES
			16:00	I N C 2	SUBSYSTEM PGSC ACTIVATION (SH OPS, ACTIVATION) IFM-1.3 FAN CLAMP REMOVAL (SH OPS, IFM) ARS Fan only.	OIU ACT & C/O (ORB OPS, OIU)		CGBA CHECK (PL OPS, CGBA) GALLEY WATER SAMPLE (ORB OPS, GIBA) P/TV08 (SSV) SETUP (PHOTO/TV, P/TV SCENES) SSV OUT RATE - 3	
			05:00		FRED SETUP (ORB OPS, FRED)	AIRLOCK PREP (EVA, AIRLOCK CONFIG)	AIRLOCK PREP (EVA, AIRLOCK CONFIG)	HELMET LT/PGT BATT RCHG INCT (EVA, EMU MAINT/RECHARGE) HELMET LIGHTS ONLY	
			17:00			EMU CHECKOUT (EVA, CHECKOUTS) EMUs 3 & 2 Perform HEATED GLOVE C/O & EMU SWAP DURING C/O	EMU CHECKOUT (EVA, CHECKOUTS) EMUs 3 & 2 Perform HEATED GLOVE C/O & EMU SWAP DURING C/O	SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) Retrieve CWC bags from SpaceHab. Perform initia setup and purge. Init CWC fill #1.	
			06:00	Z L B V I A X S V + Z L V + X V V	RMS POWERUP (PDRS OPS, RMS PWRUP)				
			18:00		RMS CHECKOUT (PDRS OPS, RMS C/O) Steps 1-7 only.			FILTER CLEANING (IFM, SCHED MAINT) Inspect filters and clean as necessary	
			07:00		RMS PLB SURVEY Ref. P/TV01	EMU CHECKOUT (EVA, EMU CHECKOUT) EMU 1 Perform HEATED GLOVE C/O	EMU CHECKOUT (EVA, EMU CHECKOUT) EMU 1 Perform HEATED GLOVE C/O		
			19:00	N P C	RMS POWERDOWN (PDRS OPS, RMS PWRDN) Note: Do not stow MPMs. Complete prior to NPC MNVR.			SWAP DRILL BATTERIES	
			08:00		MODULE SETUP (SH EH, MOD SETUP) Parts 1 & 2			SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) Terminate CWC fill #1.	
			20:00					HELMET LT/PGT BATT RCHG TERM (EVA, EMU MAINT/RECHARGE) HELMET LIGHTS ONLY	
								SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) Init CWC fill #2.	

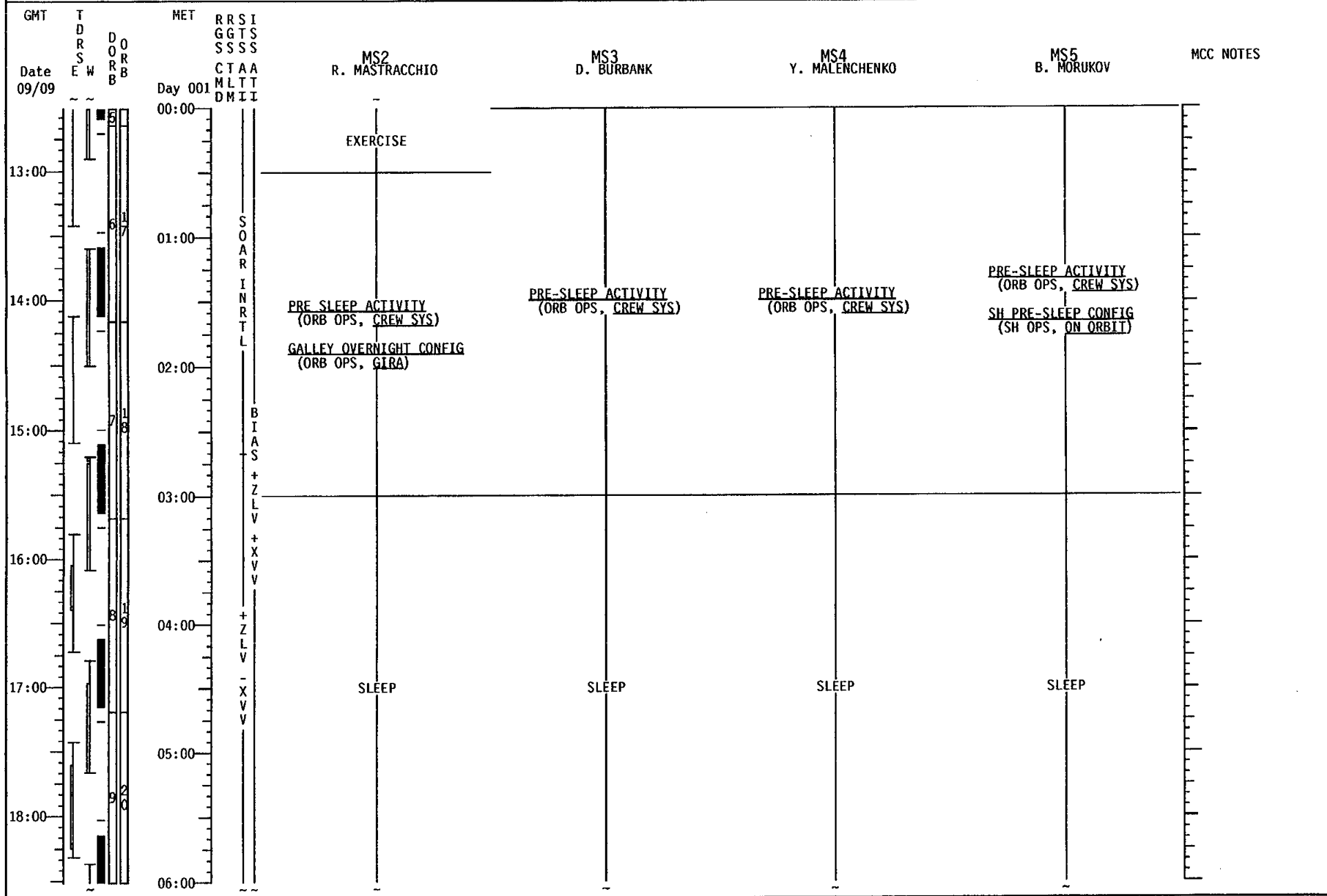
STS-106 (FD02)

GMT Date 09/09	T D R S E W	D O R B	MET Day 000	RRSI GGTS SSSS CTAA MLTT DMII	MS2 R. MASTRACCHIO	MS3 D. BURBANK	MS4 Y. MALENCHENKO	MS5 B. MORUKOV	MCC NOTES
09:00			20:00		MEAL	MEAL	MEAL	MEAL	
			21:00		SPACEHAB TRANSFER PREP Prepare/Organize transfer items for ISS.	P/TV19 (C/I CAMERA S/U) (PHOTO/TV, P/TV SCENES)	PRE-INGRESS EQUIP S/U (ISS OPS, JOINT)	SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) Terminate CWC fill #2.	
			10:00			DOCKING MECH POWERUP DOCKING RING EXTENSION DOCKING MECH POWERDOWN (RNDZ, APDS)		CYCLE ERGOMETER OPS (ORB OPS, CREW SYS) ERGOMETER SETUP	
			22:00						
			11:00			PGSC NETWORK INITIAL S/U (ORB OPS, PGSC)			
			23:00		P/TV20 SETUP (RNDZ/DOCK) (PHOTO/TV, P/TV SCENES)		EXERCISE	CGBA CHECK (PL OPS, CGBA)	
			12:00					SWAP DRILL BATTERIES	
			00:00		EXERCISE			P/TV20 SETUP (RNDZ/DOCK) (PHOTO/TV, P/TV SCENES)	

STS-106 (FD02)

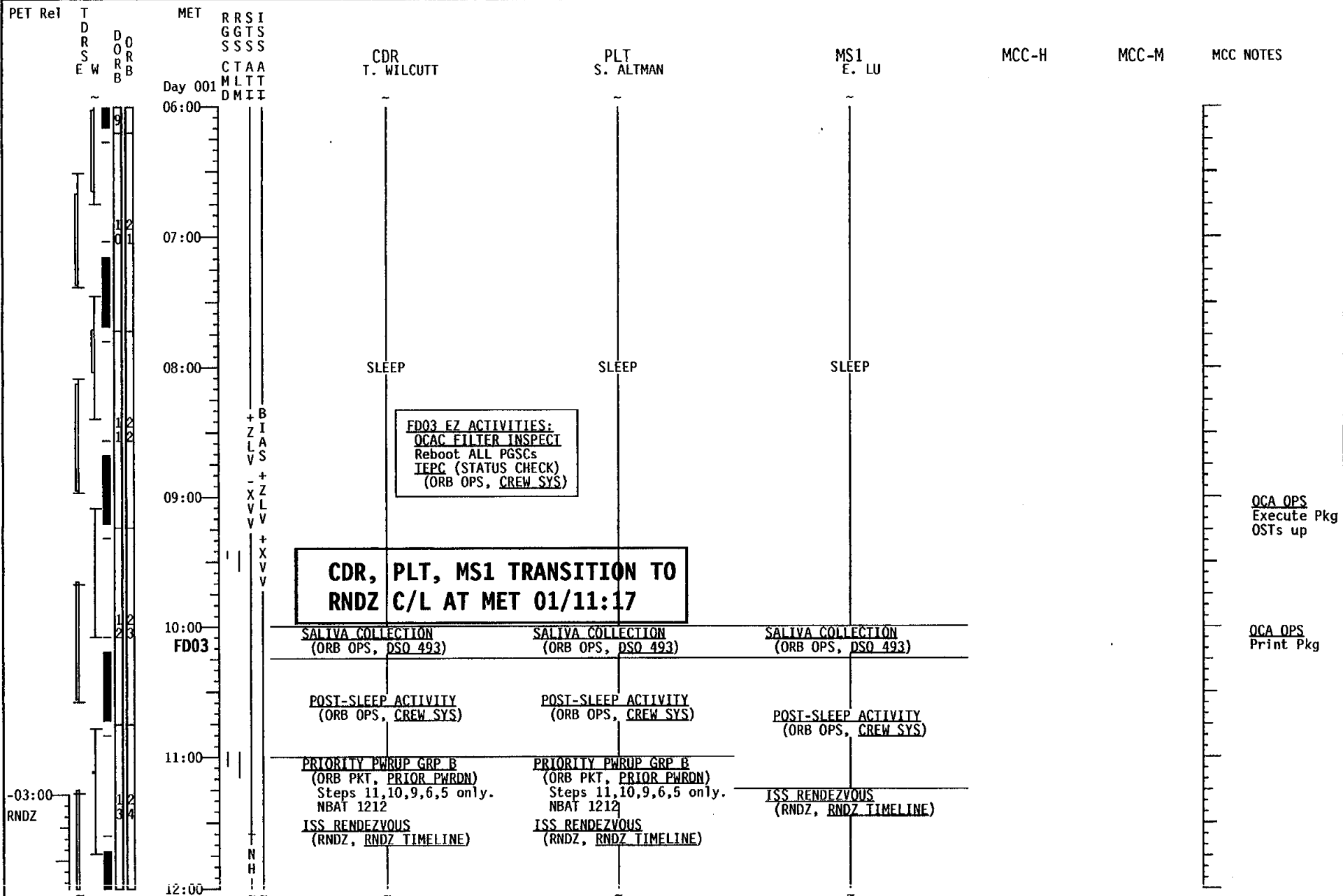


STS-106 (FD02)

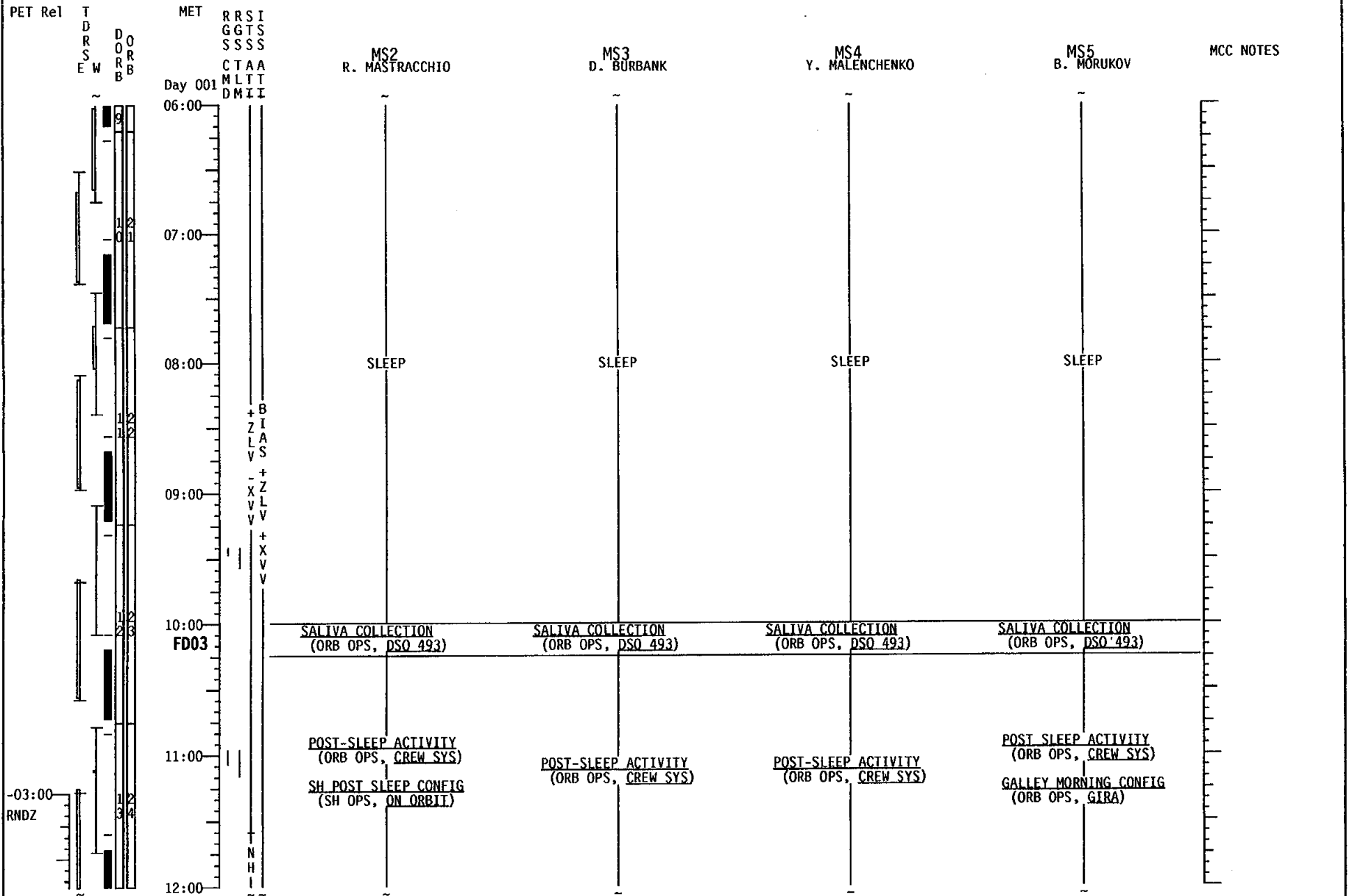


SOAR INRTL
 BIAS +ZLV +XVV
 +ZLV -XVV

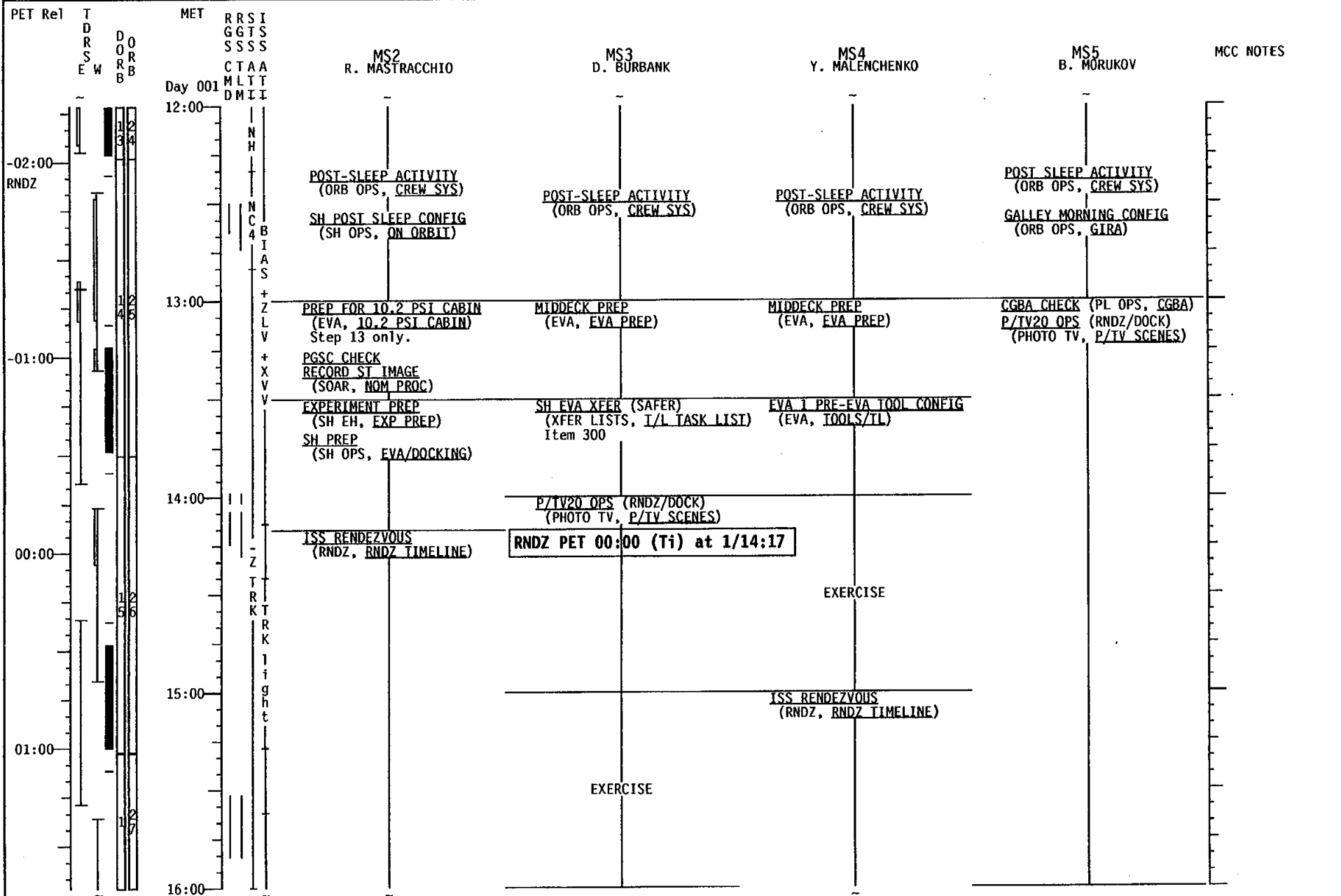
STS-106 (FD03)



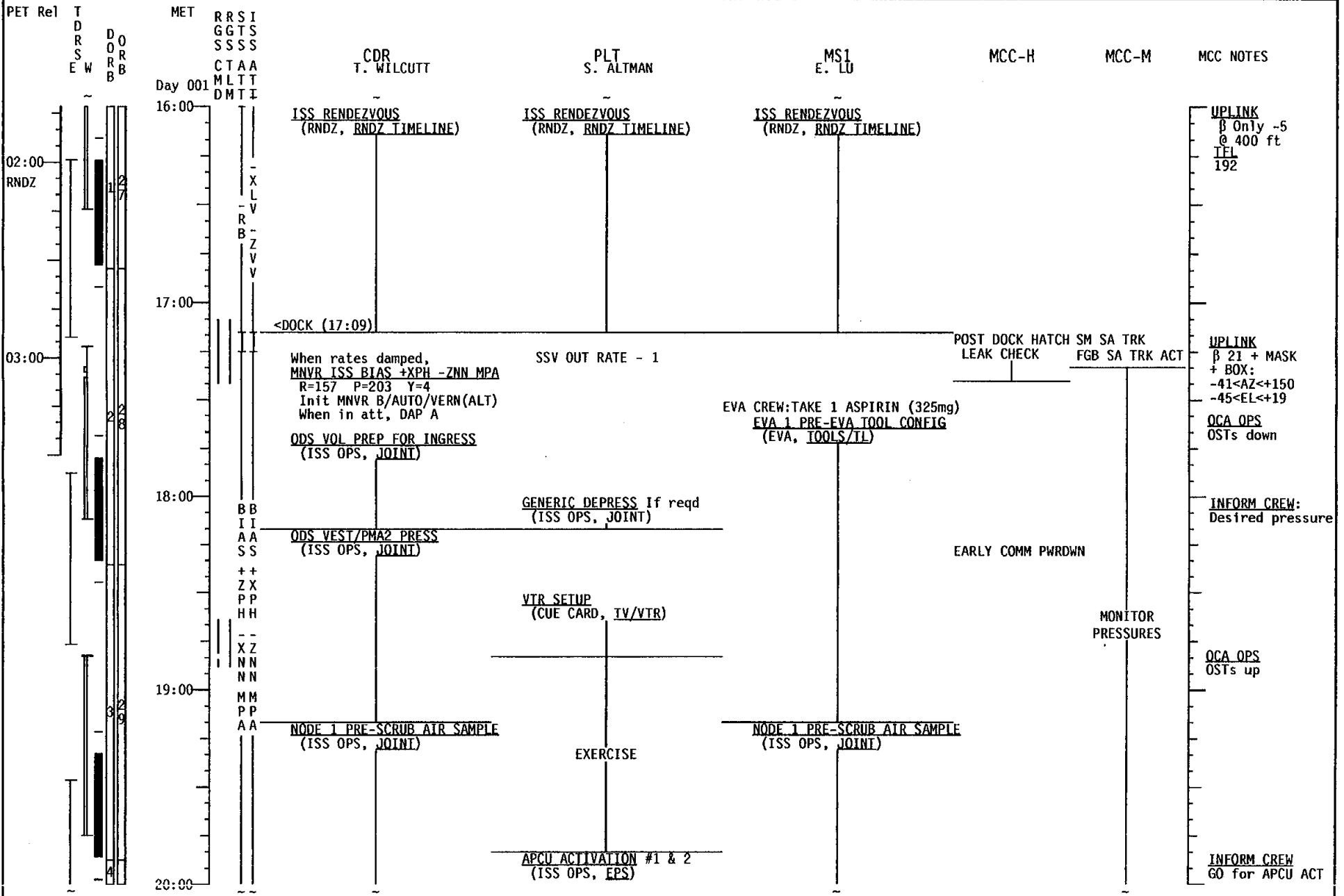
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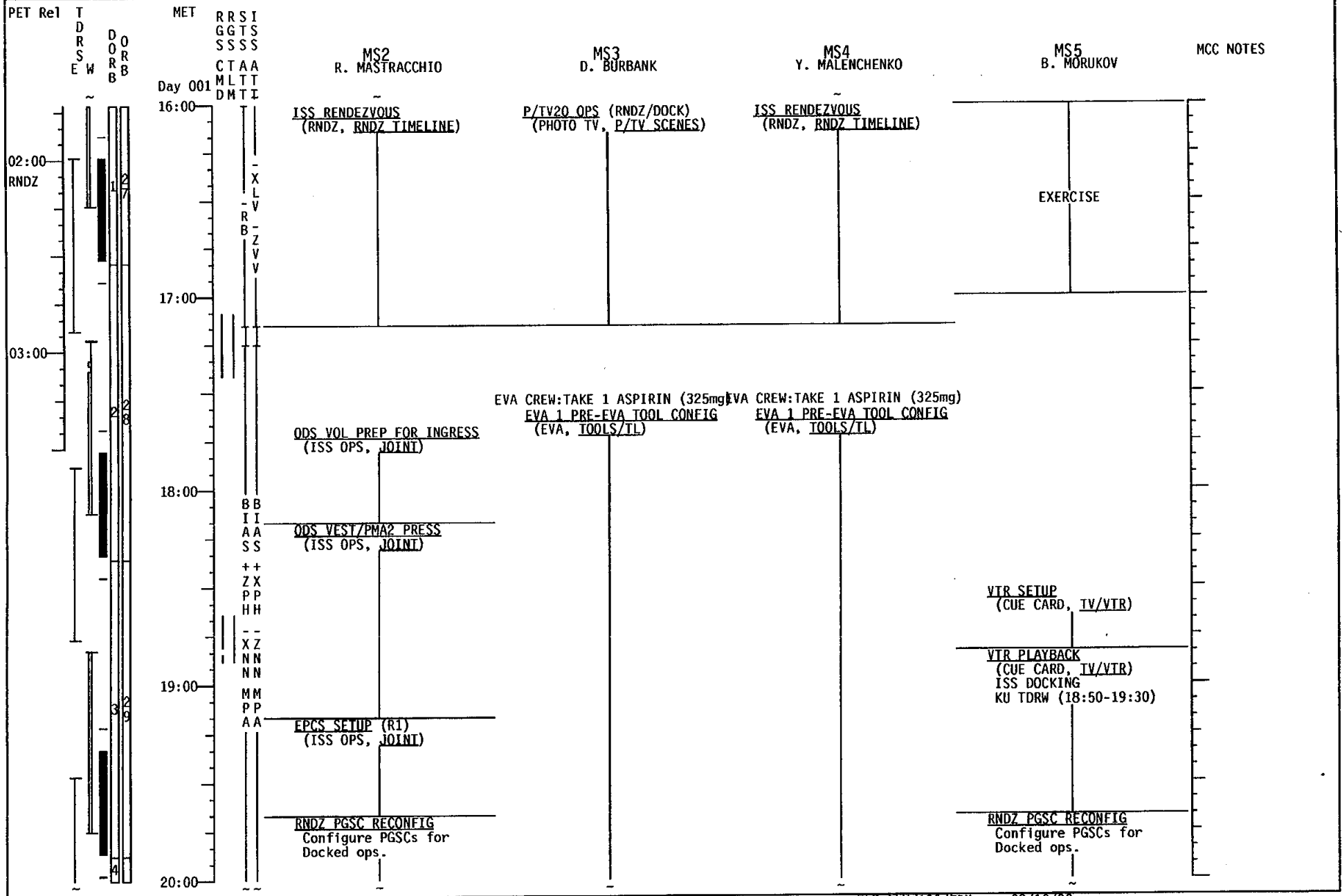
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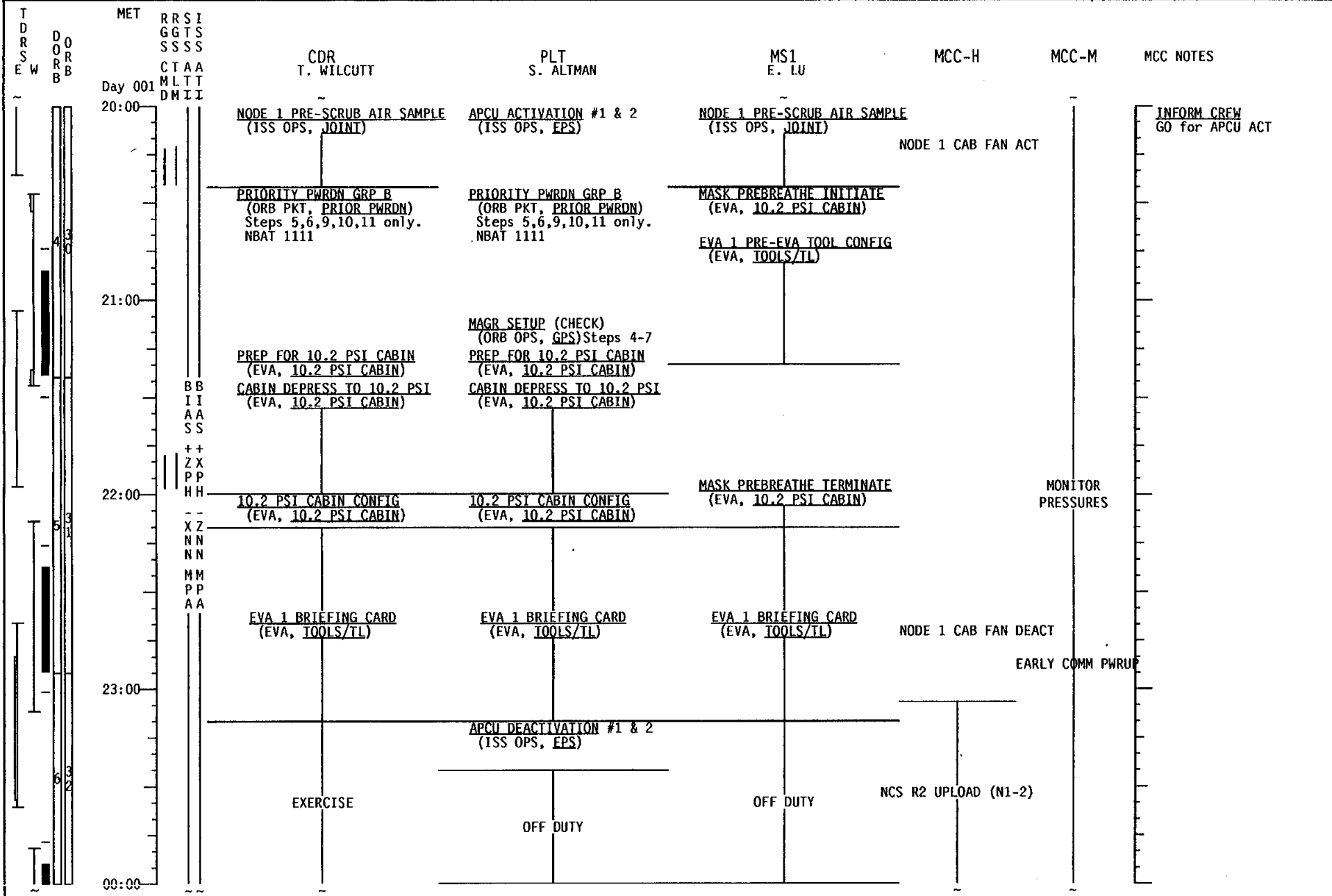
STS-106 (FD03)



STS-106 (FD03)



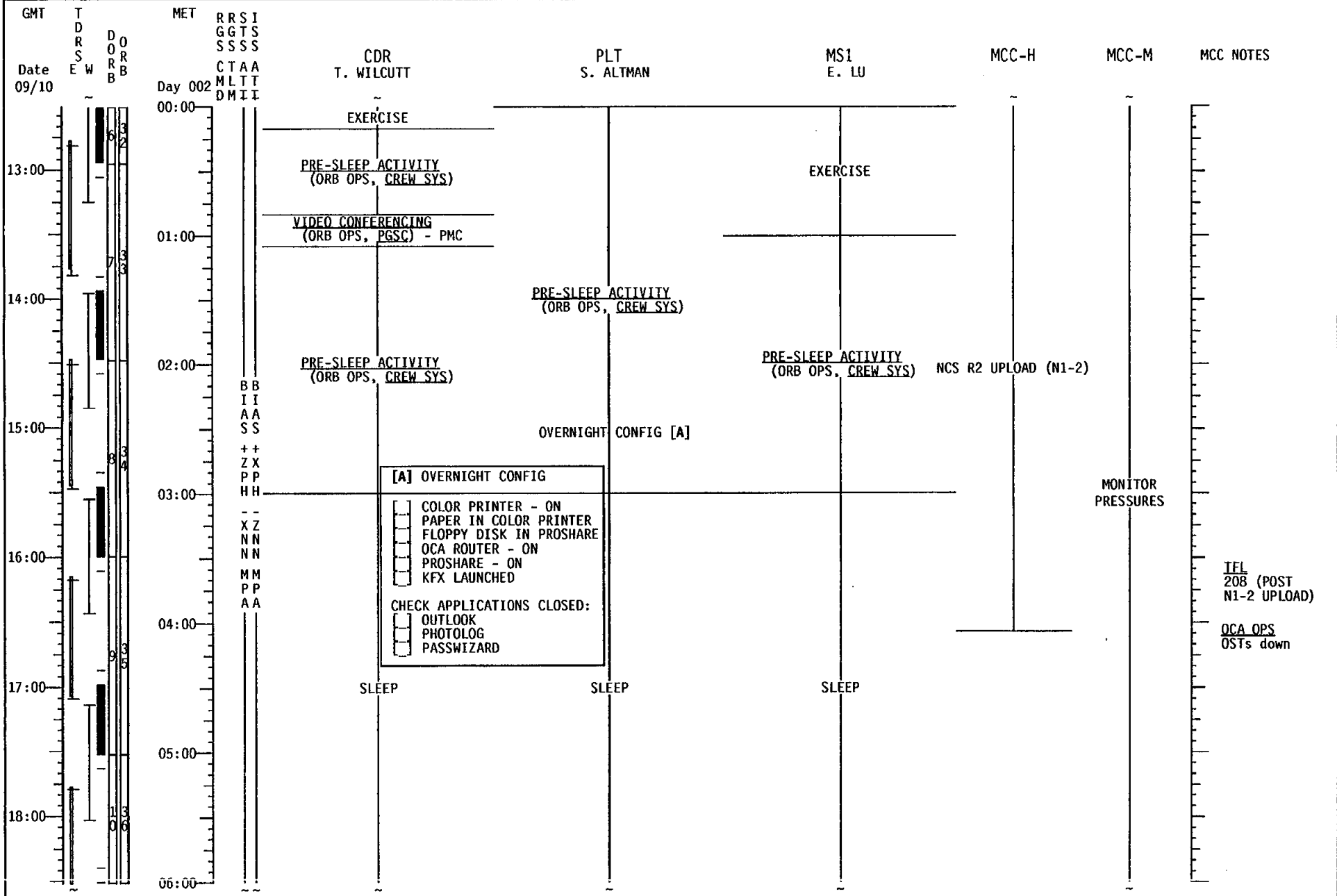
STS-106 (FD03)



STS-106 (FD03)

	MET	MS2 R. MASTRACCHIO	MS3 D. BURBANK	MS4 Y. MALENCHENKO	MS5 B. MORUKOV	MCC NOTES
TDRS W DORB Day 001 20:00 21:00 22:00 23:00 00:00	RRSI GGTS SSSS CTAA MLTT DMI I BB II AA SS ++ ZX PP HH -- XZ NN NN MM PP AA	RNDZ PGSC RECONFIG Configure PGSCs for Docked ops. L17 Check MCIU filter screen SAFER CHECKOUT (EVA, CHECKOUTS) EXERCISE EVA 1 BRIEFING CARD (EVA, TOOLS/TL) EPCS DEACT (ISS OPS, JOINT) OFF DUTY	EVA 1 PRE-EVA TOOL CONFIG (EVA, TOOLS/TL) MASK PREBREATHE INITIATE (EVA, 10.2 PSI CABIN) SAFER CHECKOUT (EVA, CHECKOUTS) MASK PREBREATHE TERMINATE (EVA, 10.2 PSI CABIN) EVA 1 BRIEFING CARD (EVA, TOOLS/TL) OFF DUTY	EVA 1 PRE-EVA TOOL CONFIG (EVA, TOOLS/TL) MASK PREBREATHE INITIATE (EVA, 10.2 PSI CABIN) EVA 1 PRE-EVA TOOL CONFIG (EVA, TOOLS/TL) MASK PREBREATHE TERMINATE (EVA, 10.2 PSI CABIN) EVA 1 BRIEFING CARD (EVA, TOOLS/TL) OFF DUTY	RNDZ PGSC RECONFIG Configure PGSCs for Docked ops. SWAP DRILL BATTERIES CGBA CHECK (PL OPS, CGBA) EVA 1 BRIEFING CARD (EVA, TOOLS/TL) OFF DUTY	

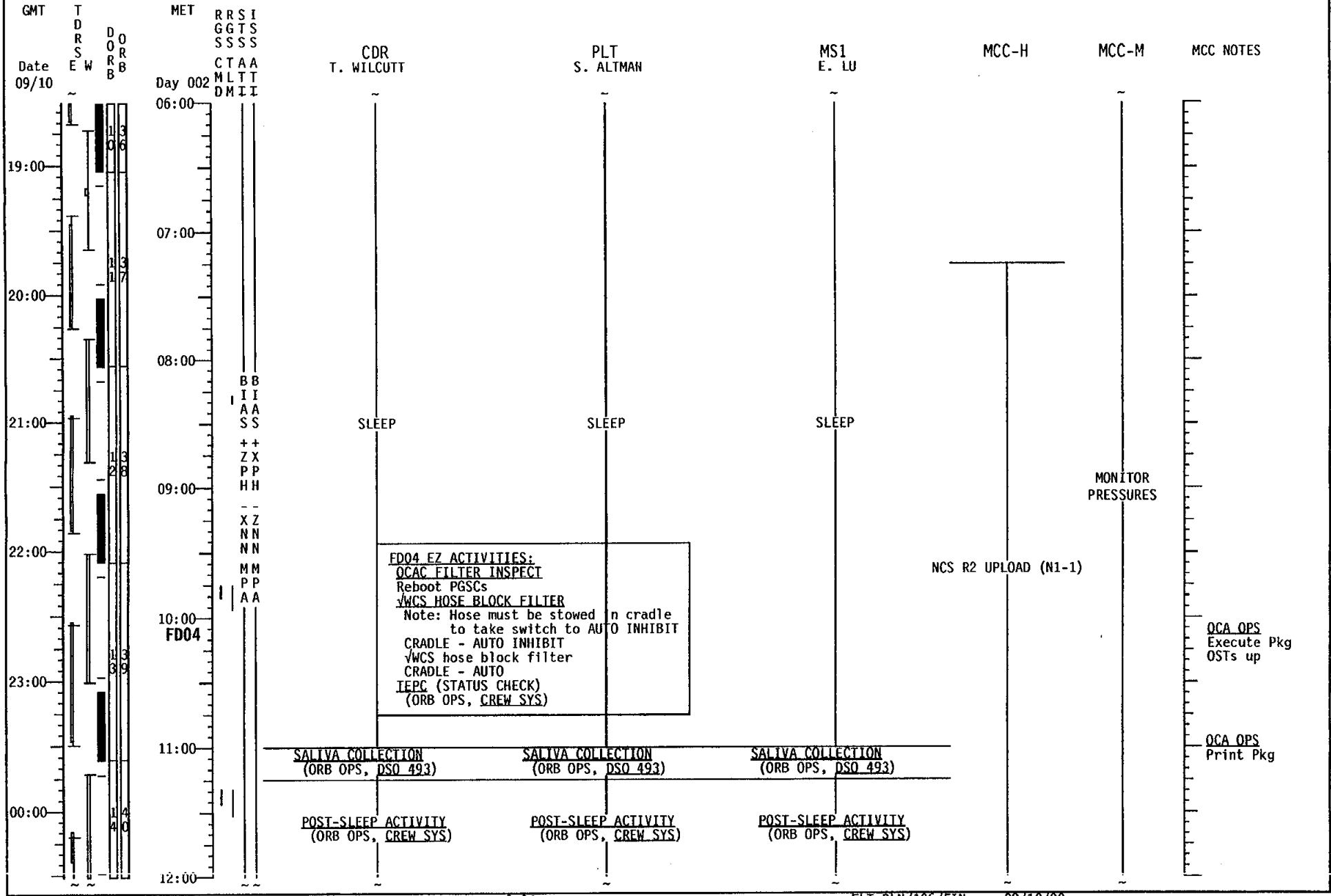
STS-106 (FD03)



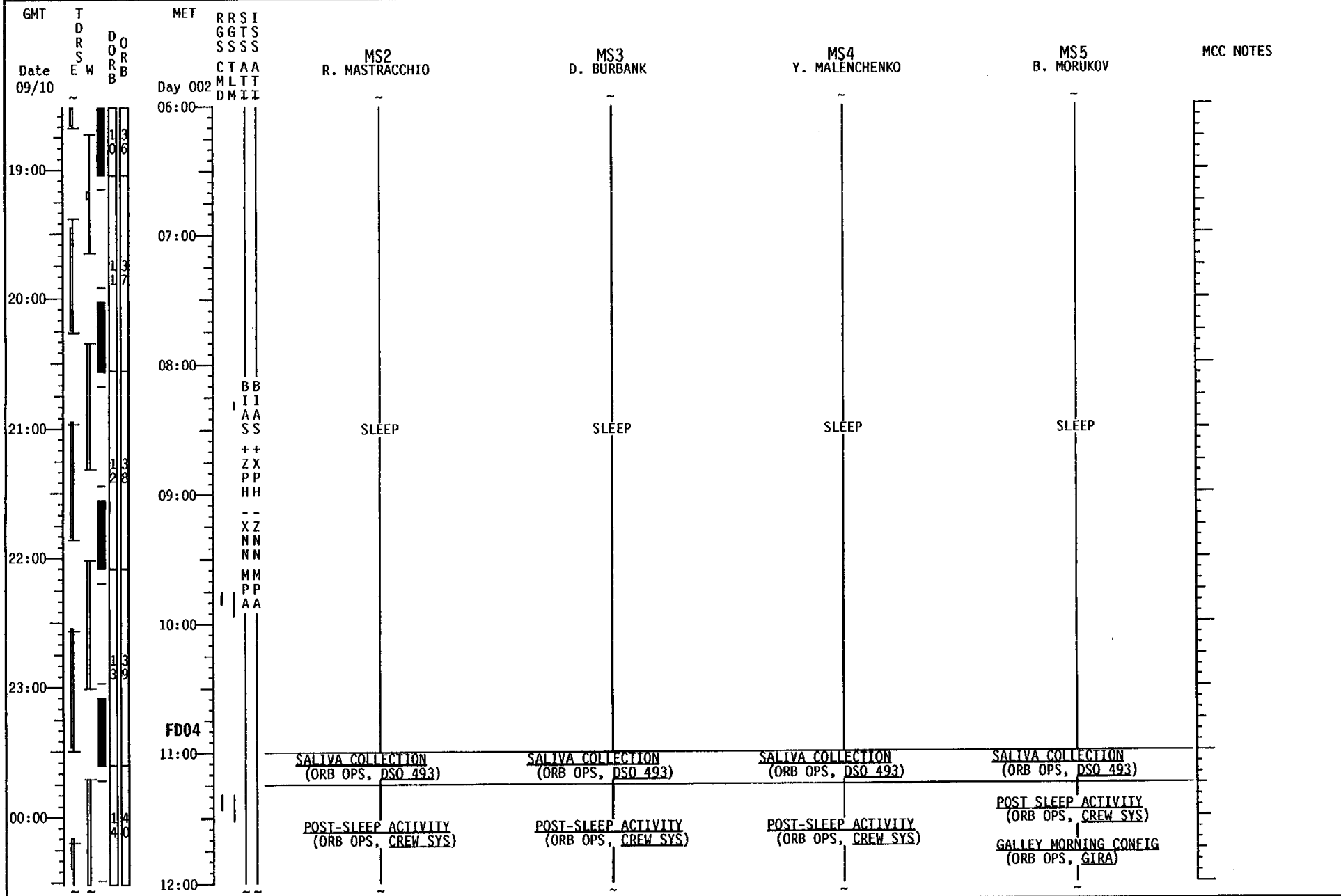
STS-106 (FD03)

GMT	T D R S E W	MET	RRSI GGTS SSSS CTAA MLTT DMI I	MS2 R. MASTRACCHIO	MS3 D. BURBANK	MS4 Y. MALENCHENKO	MS5 B. MORUKOV	MCC NOTES
Date 09/10		Day 002						
13:00		00:00						
14:00		01:00		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
15:00		02:00	BB II AA SS					
16:00		03:00	++ ZX PP HH					
17:00		04:00	-- XZ NN NN MM PP AA	SLEEP	SLEEP	SLEEP	SLEEP	
18:00		05:00						
		06:00						

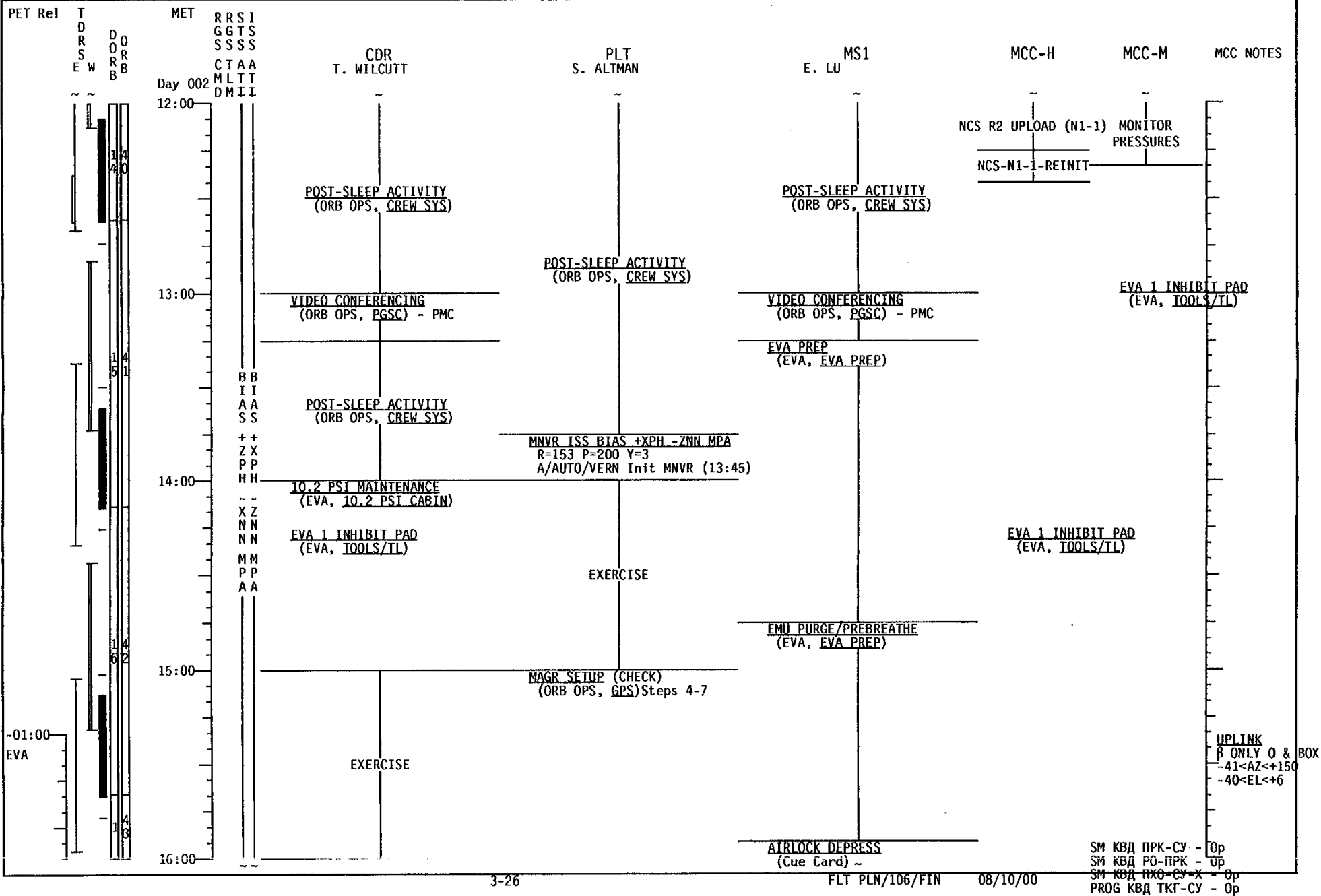
STS-106 (FD04)



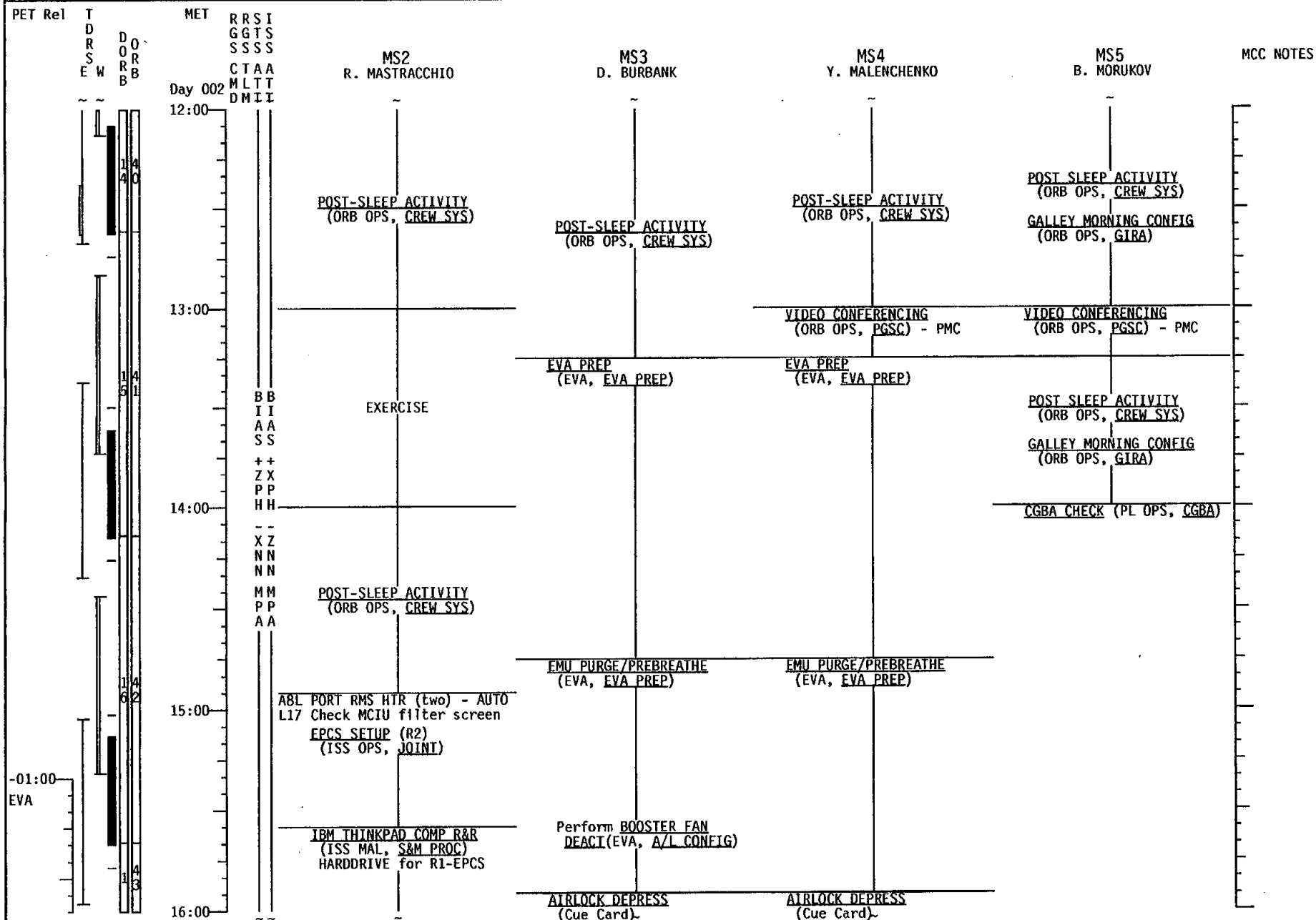
STS-106 (FD04)



STS-106 (FD04)

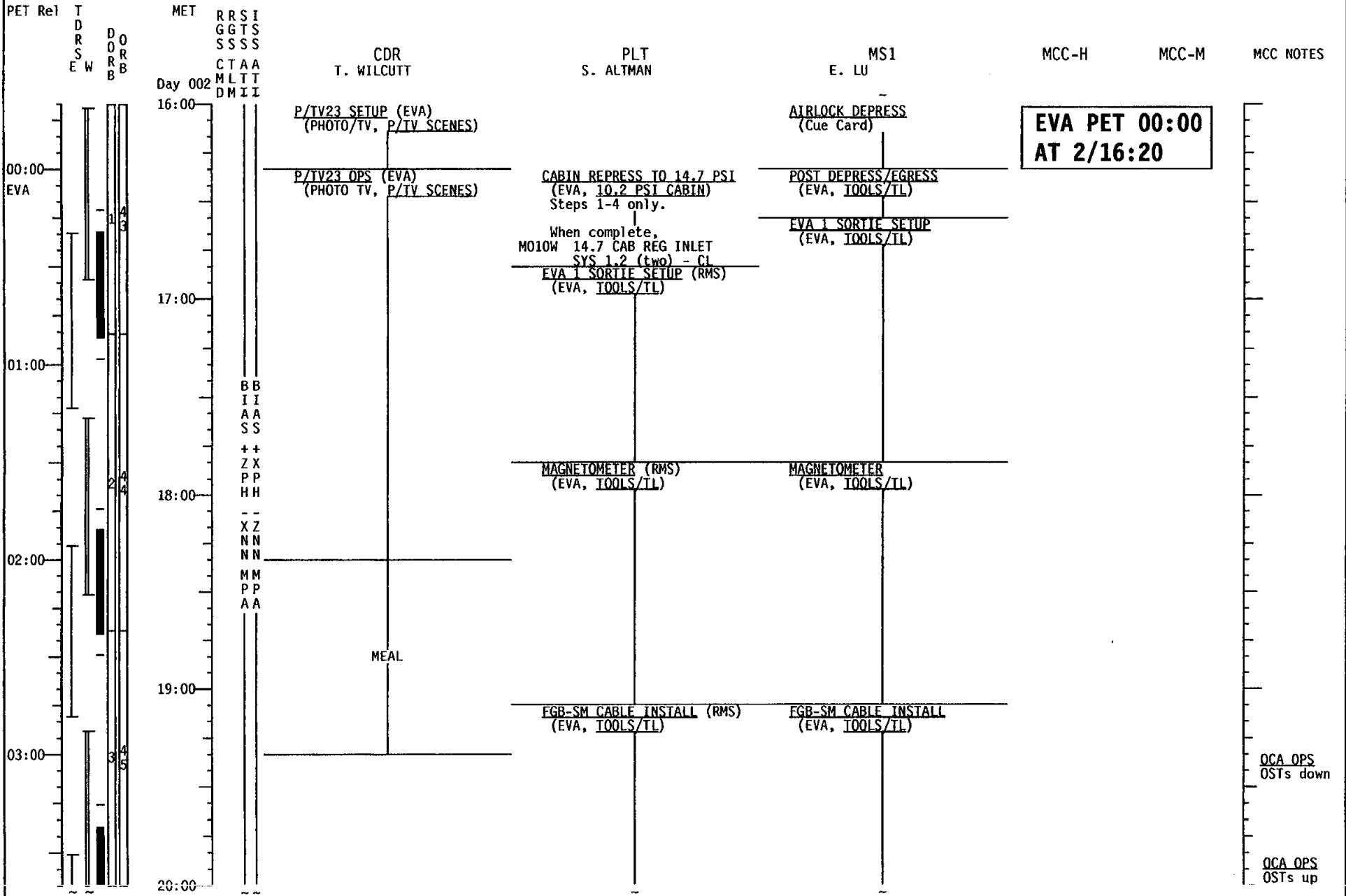


STS-106 (FD04)

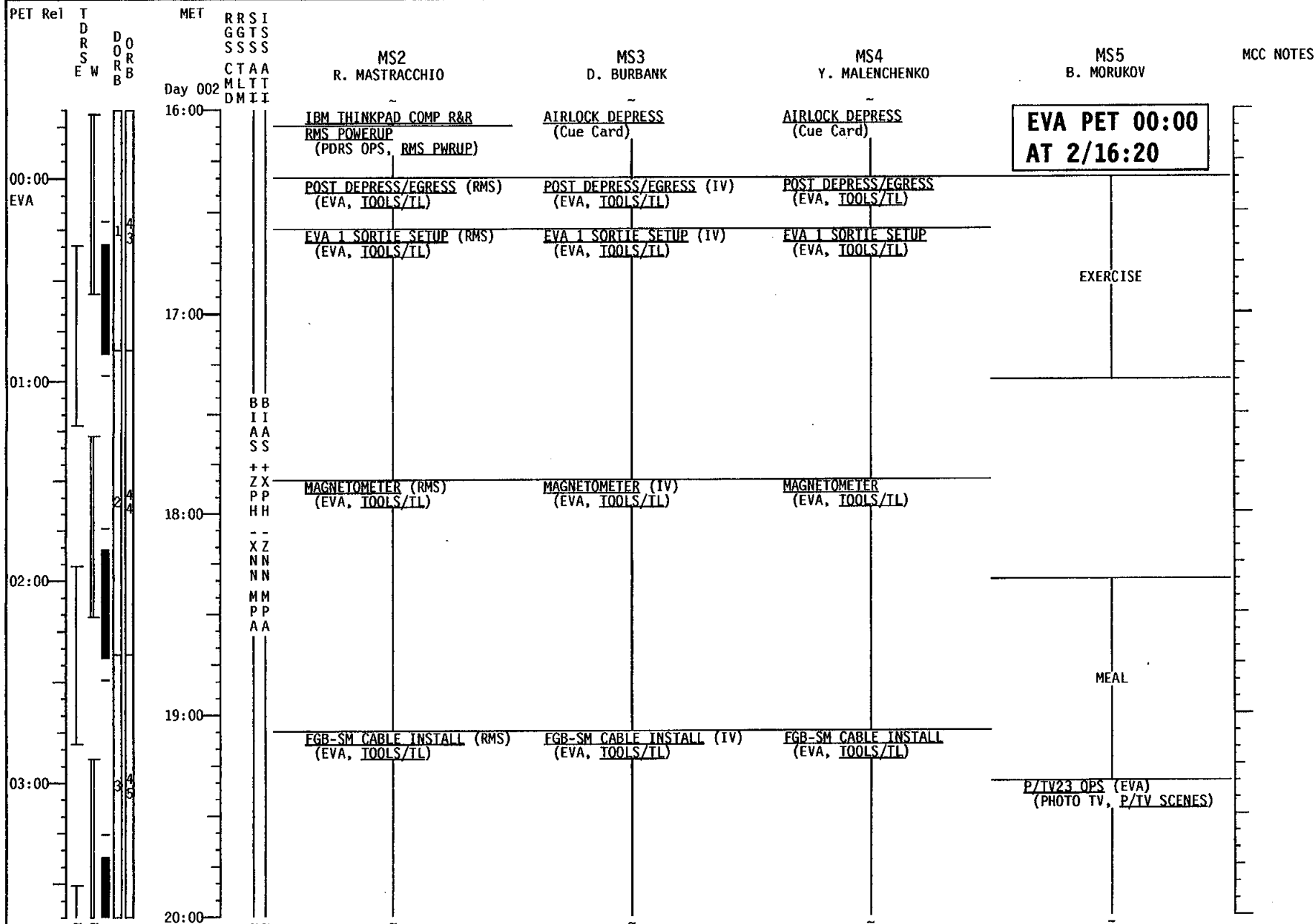


-01:00
EVA

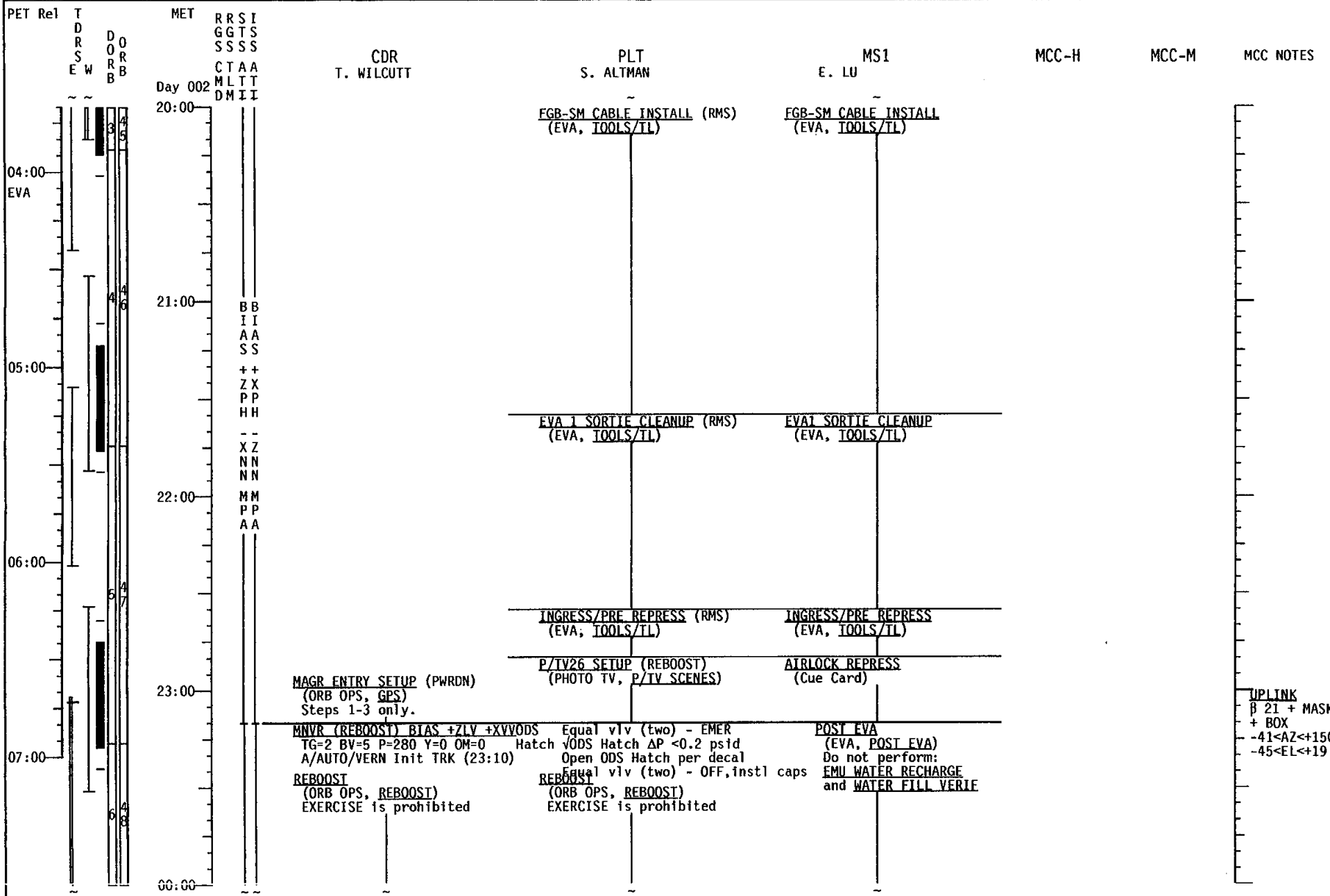
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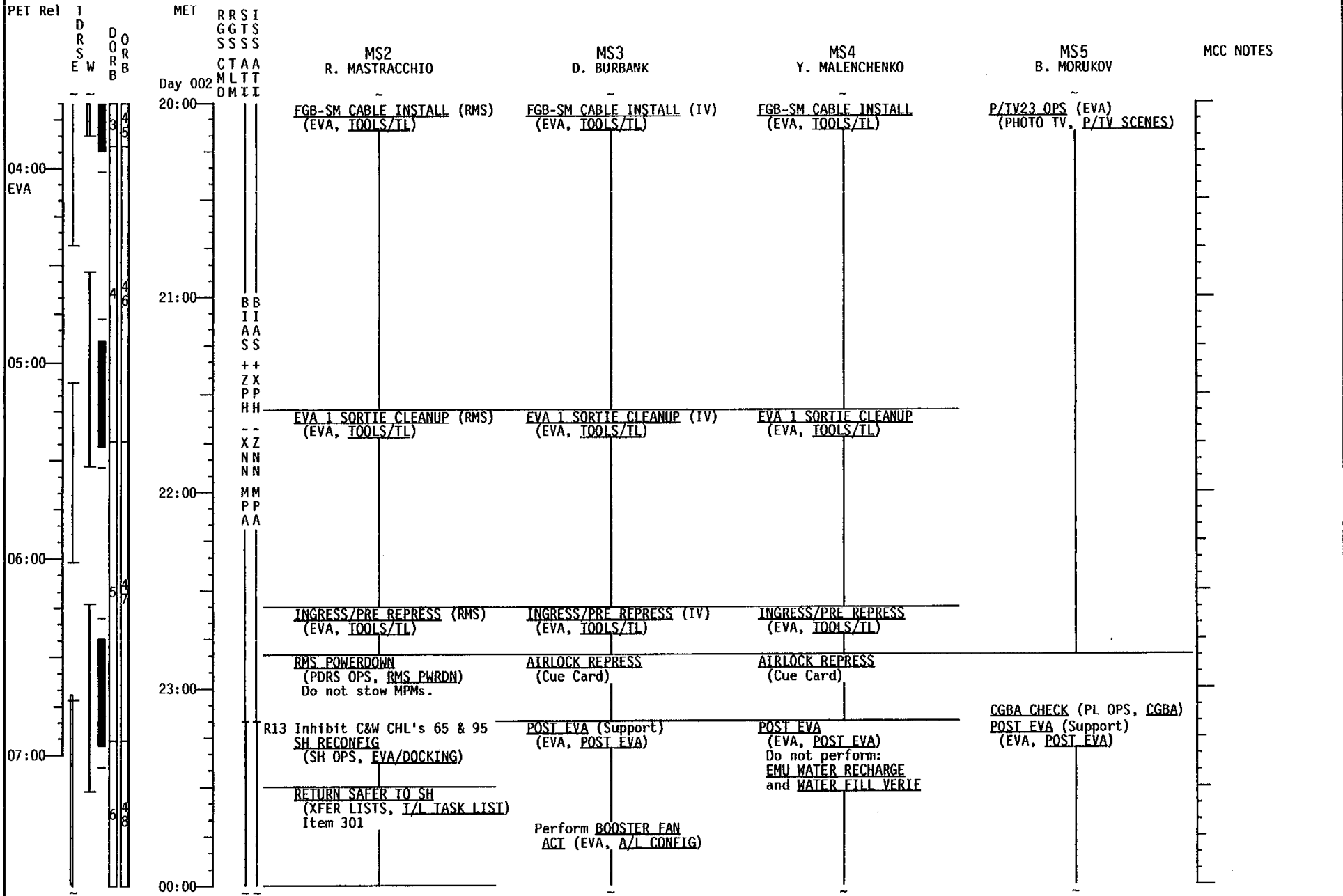
STS-106 (FD04)



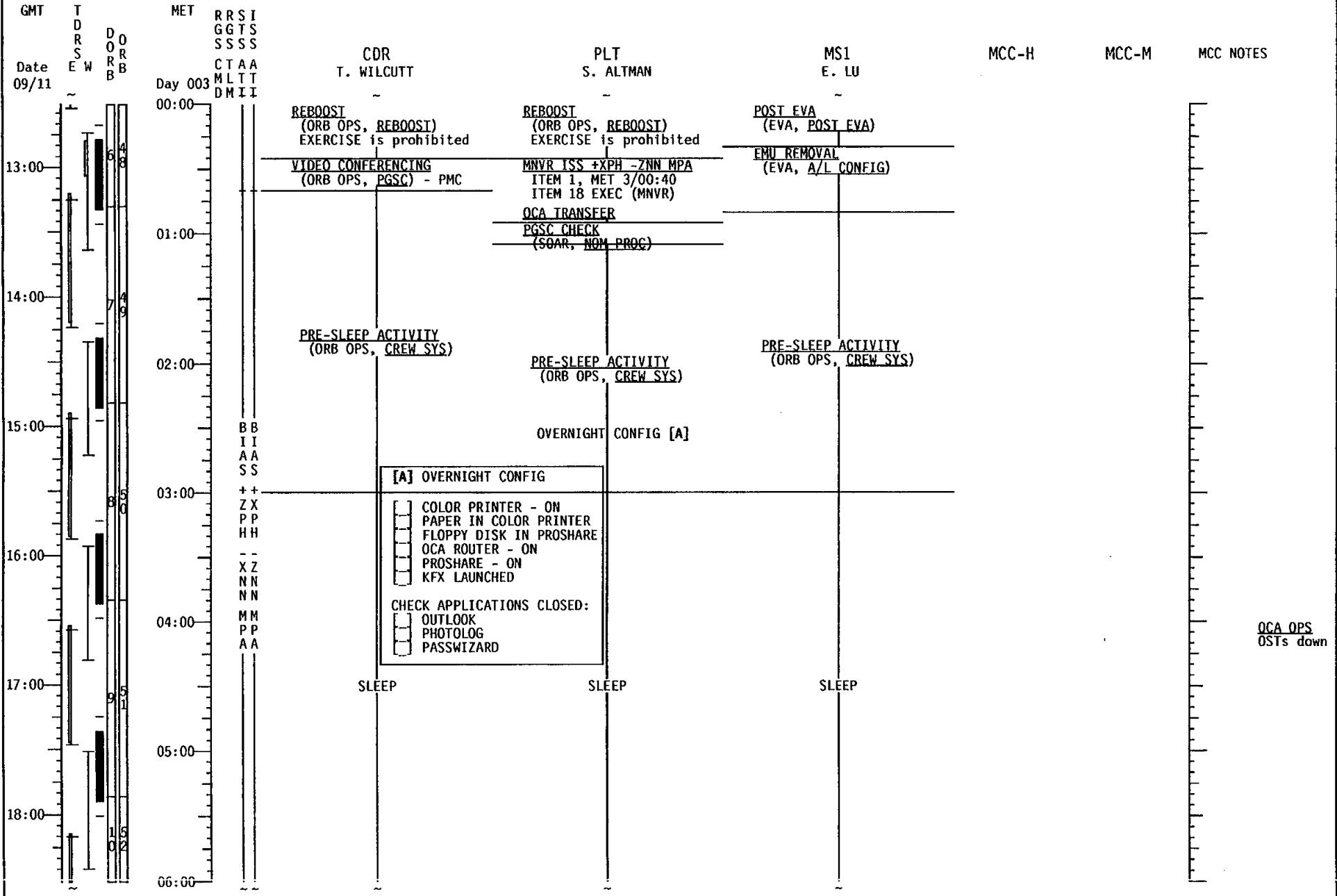
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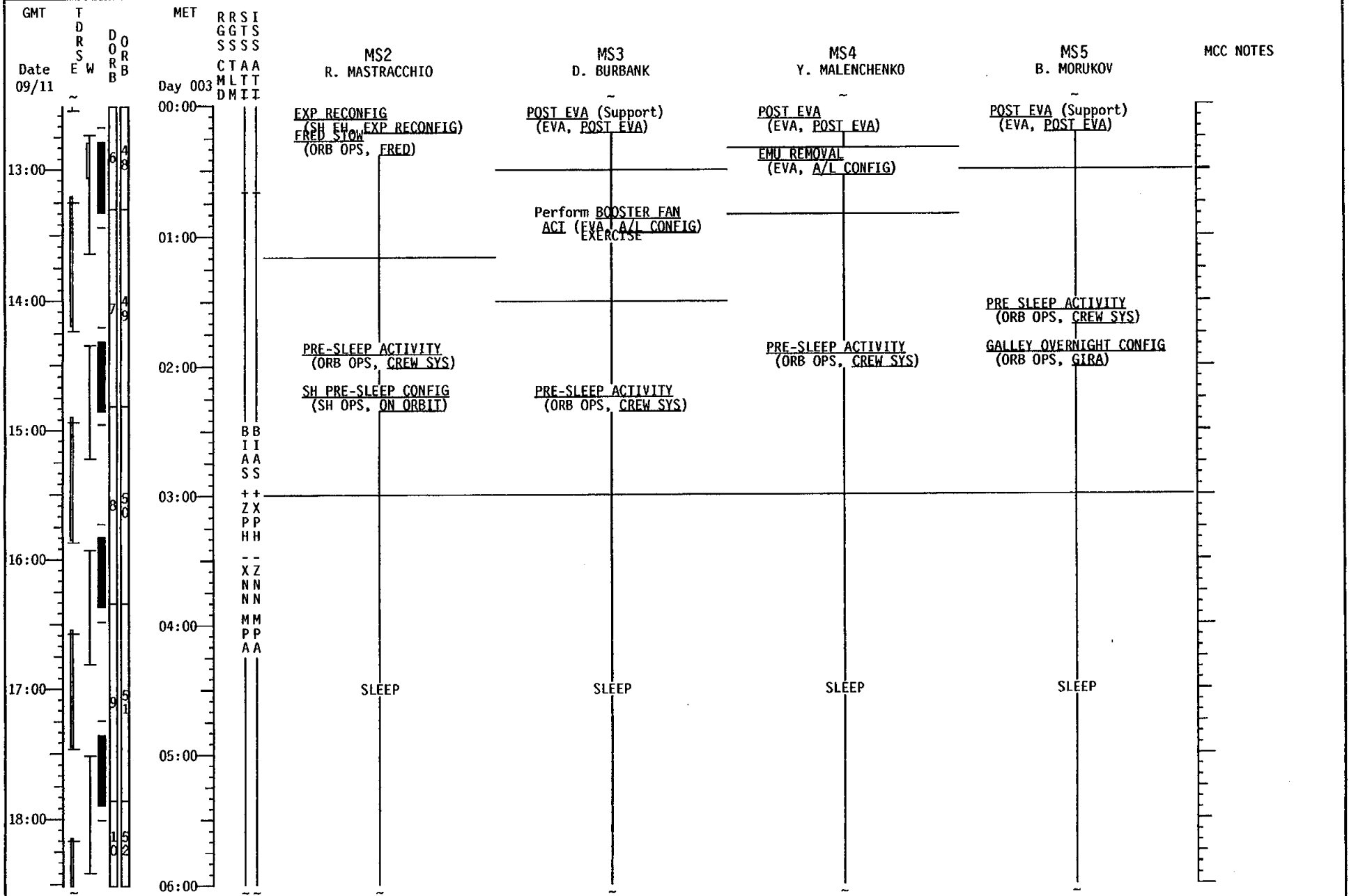
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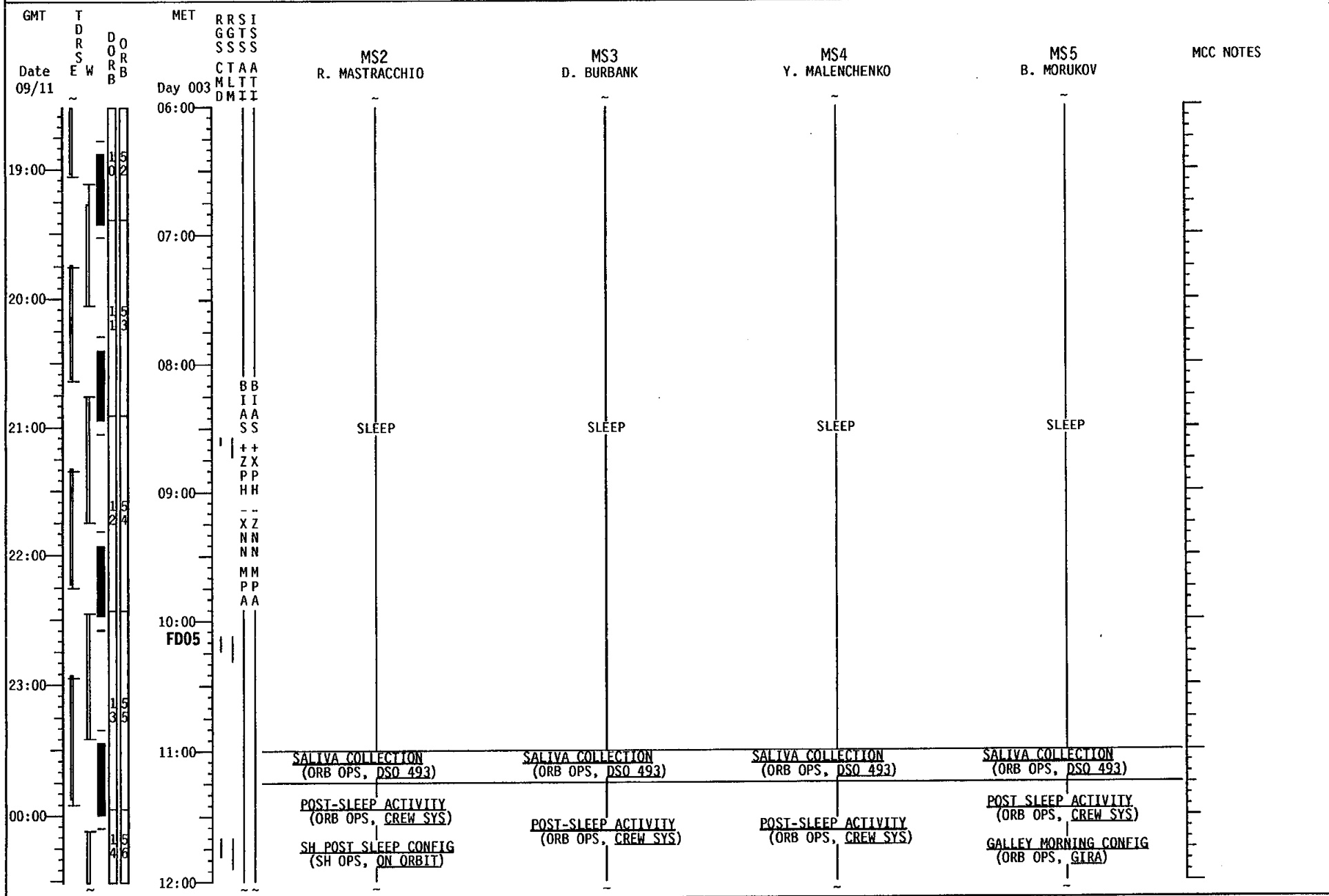
STS-106 (FD04)



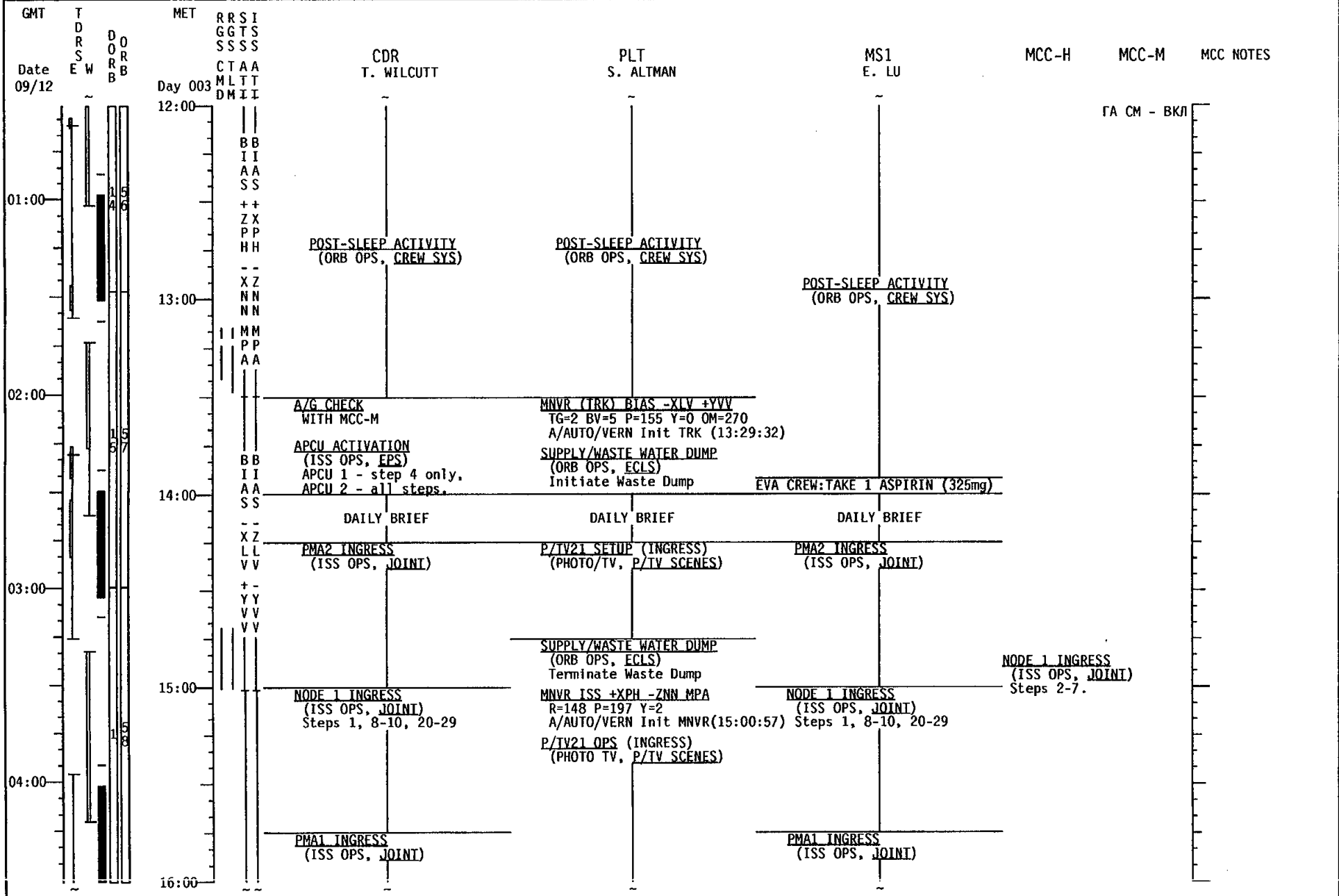
STS-106 (FD04)



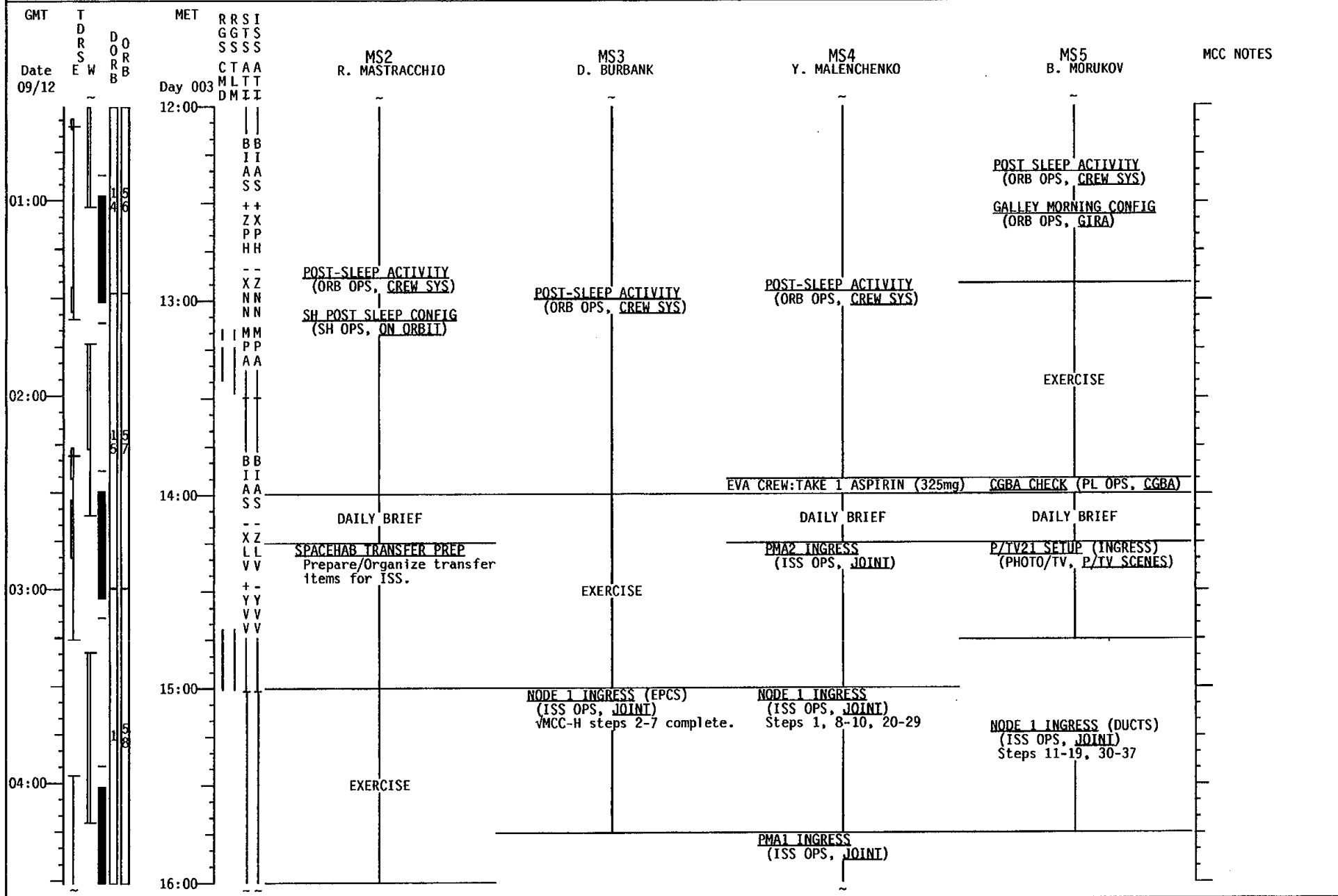
STS-106 (FD05)



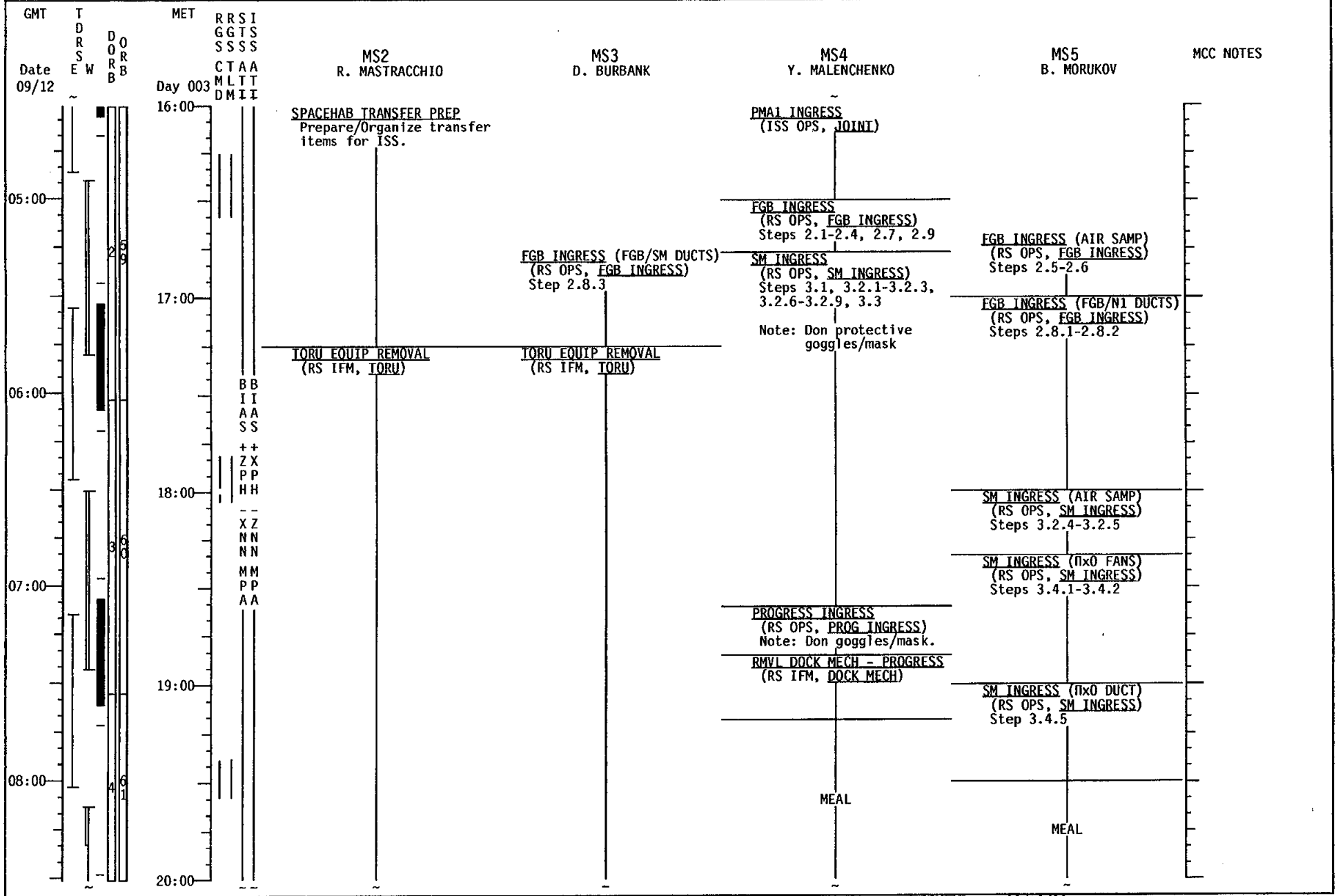
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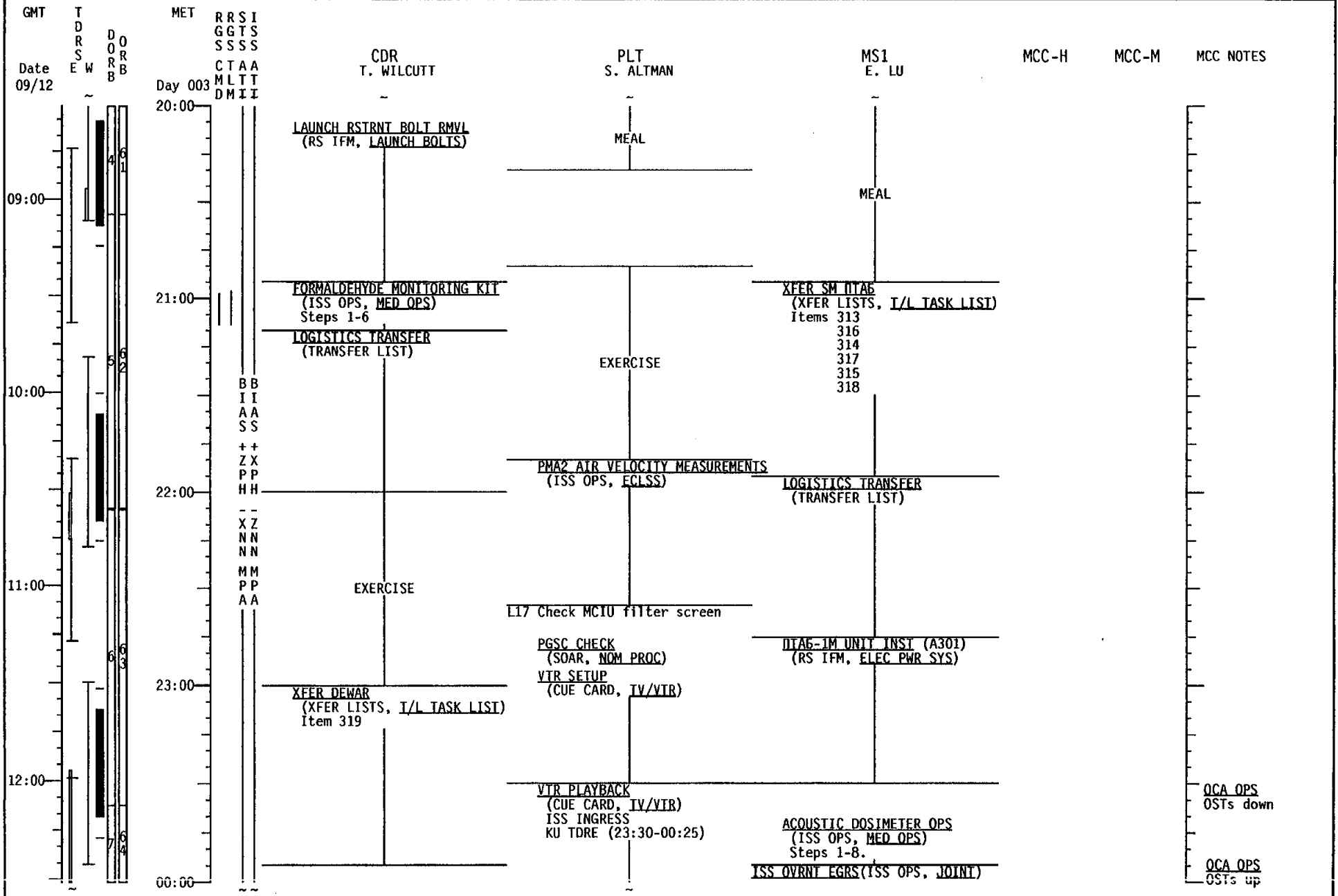
STS-106 (FD05)



STS-106 (FD05)



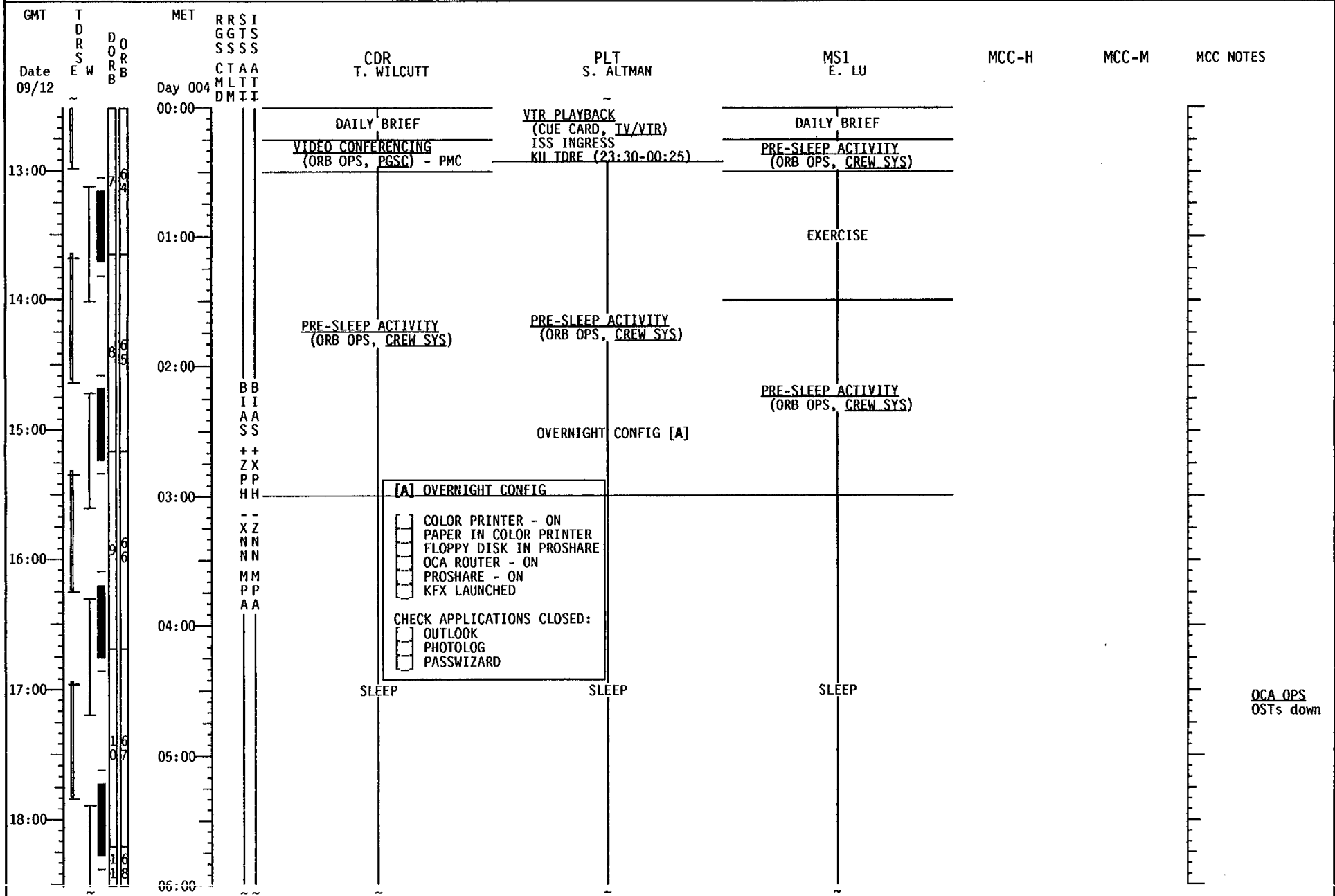
STS-106 (FD05)



STS-106 (FD05)

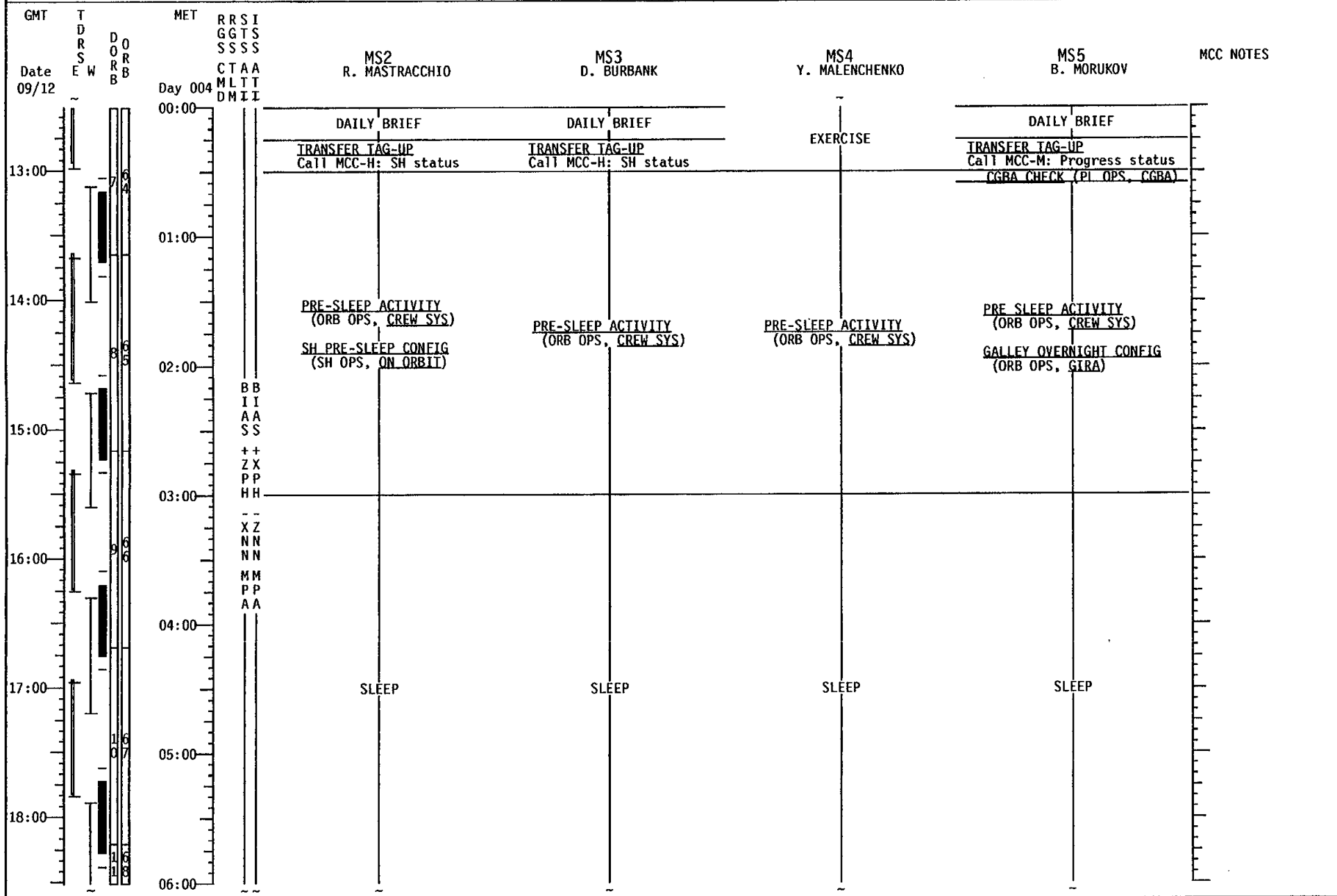
GMT	T D R S E W	D O R B	MET	RRSI GGTS SSSS CTAA MLTT DMI	MS2 R. MASTRACCHIO	MS3 D. BURBANK	MS4 Y. MALENCHENKO	MS5 B. MORUKOV	MCC NOTES
Date 09/12			Day 003						
09:00			20:00		TORU EQUIP REMOVAL (RS IFM, TORU)	TORU EQUIP REMOVAL (RS IFM, TORU)	MEAL		
					RETURN TORU TO SPACEHAB (XFER LISTS, I/L TASK LIST) Items 307 309 308 310	RETURN TORU TO SPACEHAB (XFER LISTS, I/L TASK LIST) Items 307 309 308 310	PROGRESS UNLOAD (UNLOAD CUE CARD)	MEAL	
			21:00		MEAL	MEAL		PROGRESS UNLOAD (UNLOAD CUE CARD)	
10:00				BB II AA SS ++ ZX PP HH	PANEL 112/113 STOW (XFER LISTS, I/L TASK LIST) Items 336 337				
			22:00	-- XZ NN NN MM PP AA		RMVL DOCK MECH - FGB COVER (RS IFM, DOCK MECH) Steps 1-10, 12-13	RMVL DOCK MECH - FGB COVER (RS IFM, DOCK MECH) Steps 1-10, 12-13		
11:00						FGB DOCK PROBE TEMP STOW (XFER LISTS, I/L TASK LIST) Item 311	FGB DOCK PROBE TEMP STOW (XFER LISTS, I/L TASK LIST) Item 311		
			23:00			CLEAR PANELS 107 & 108 (XFER LISTS, I/L TASK LIST) Items 320 321 322 323	PTAB-1M UNIT INST (A301) (RS IFM, ELEC PWR SYS)		
12:00					LOGISTICS TRANSFER (TRANSFER LIST)			XFER SM EVNT (XFER LISTS, I/L TASK LIST) Items 328 329 330	
			00:00		TRANSFER CHECK	TRANSFER CHECK	EXERCISE	TRANSFER CHECK	

STS-106 (FD05)

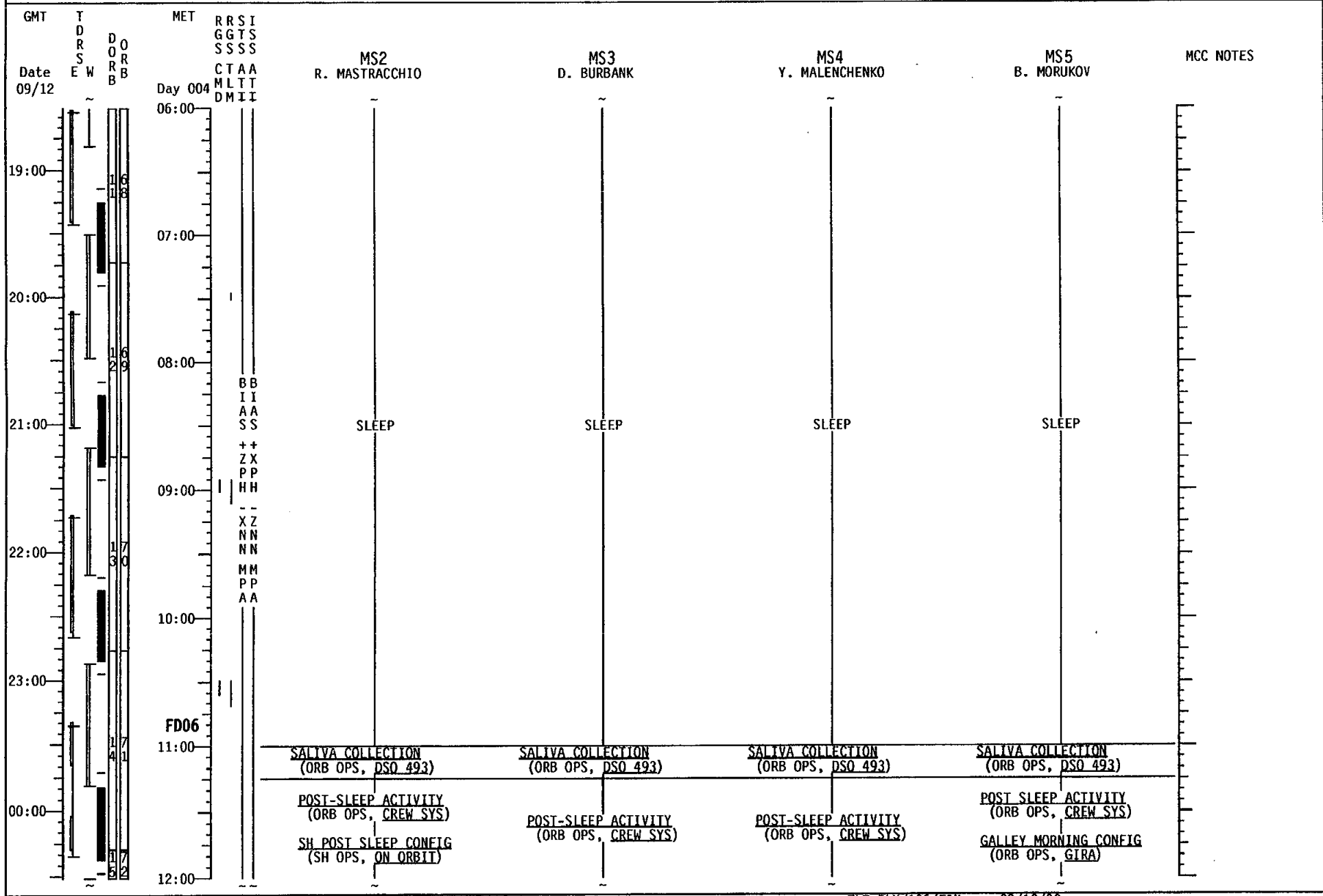


OCA OPS
OSTs down

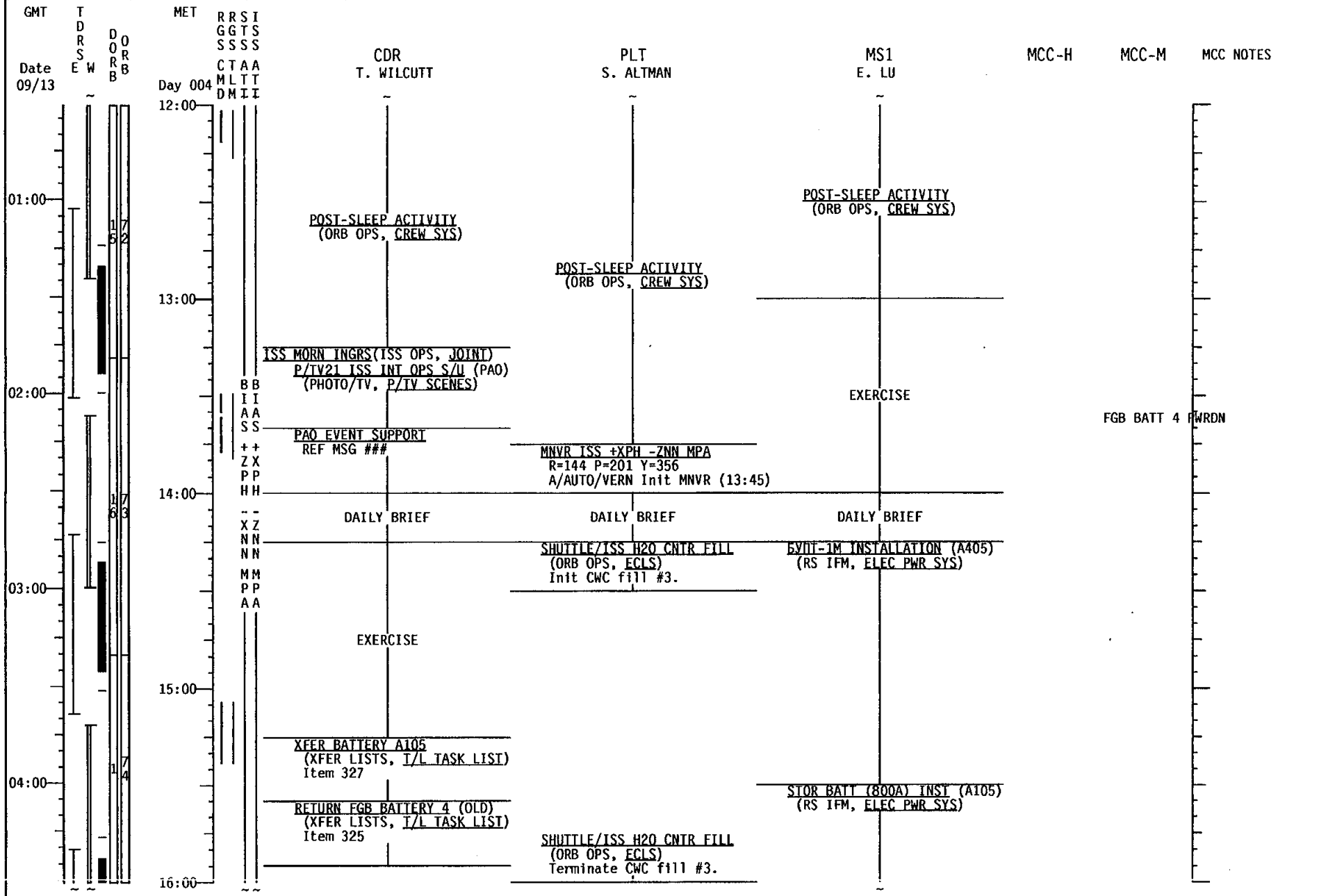
STS-106 (FD05)



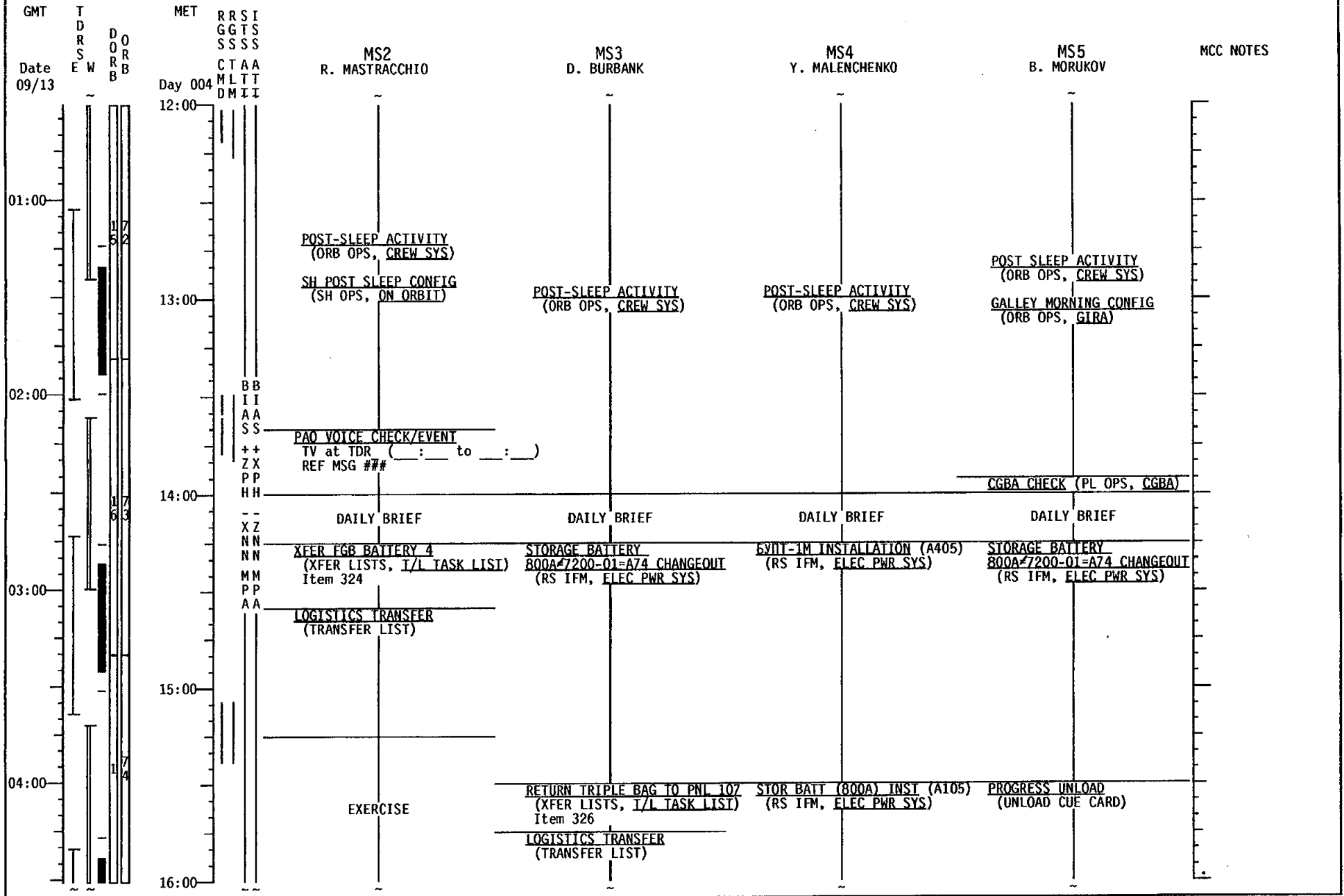
STS-106 (FD06)



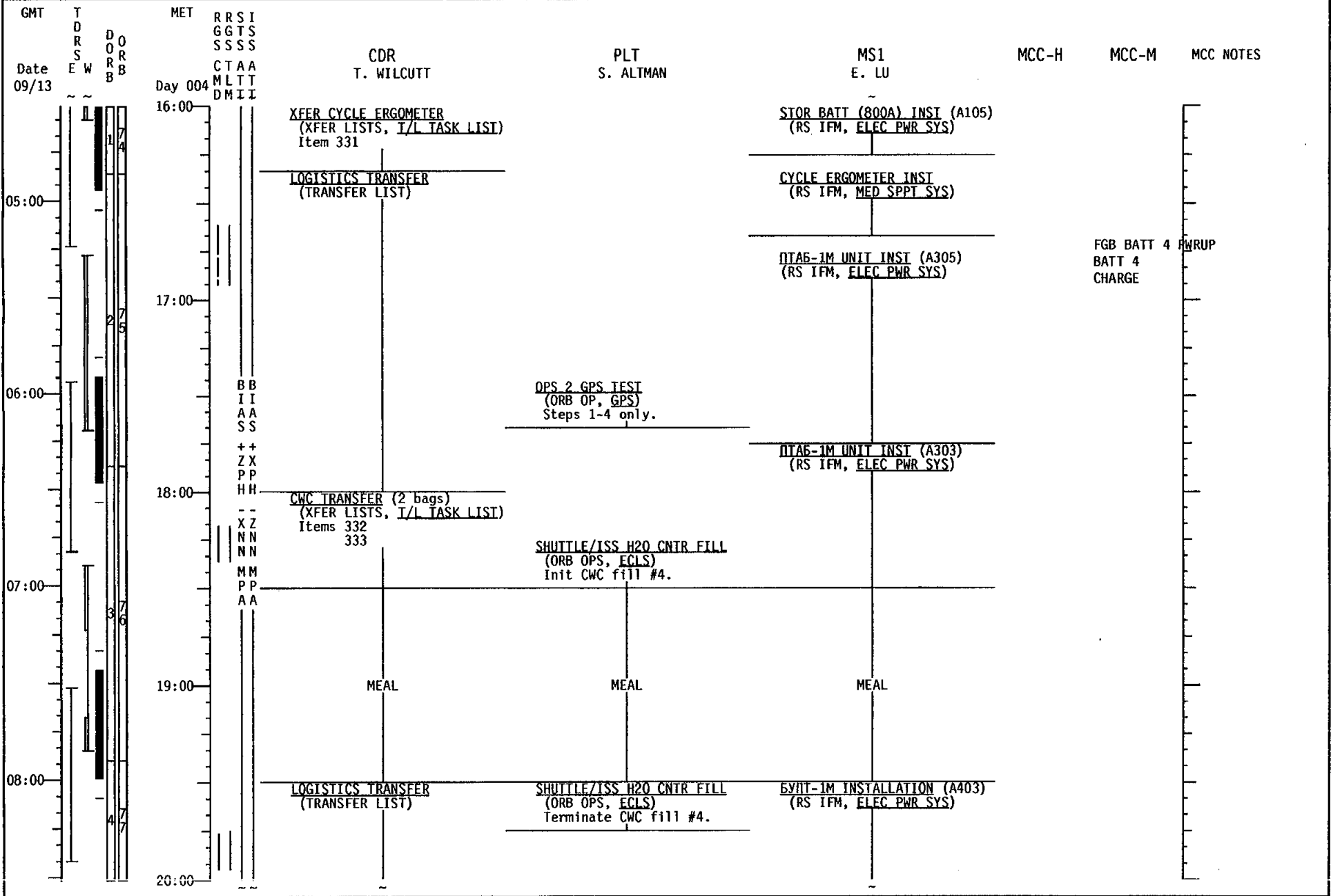
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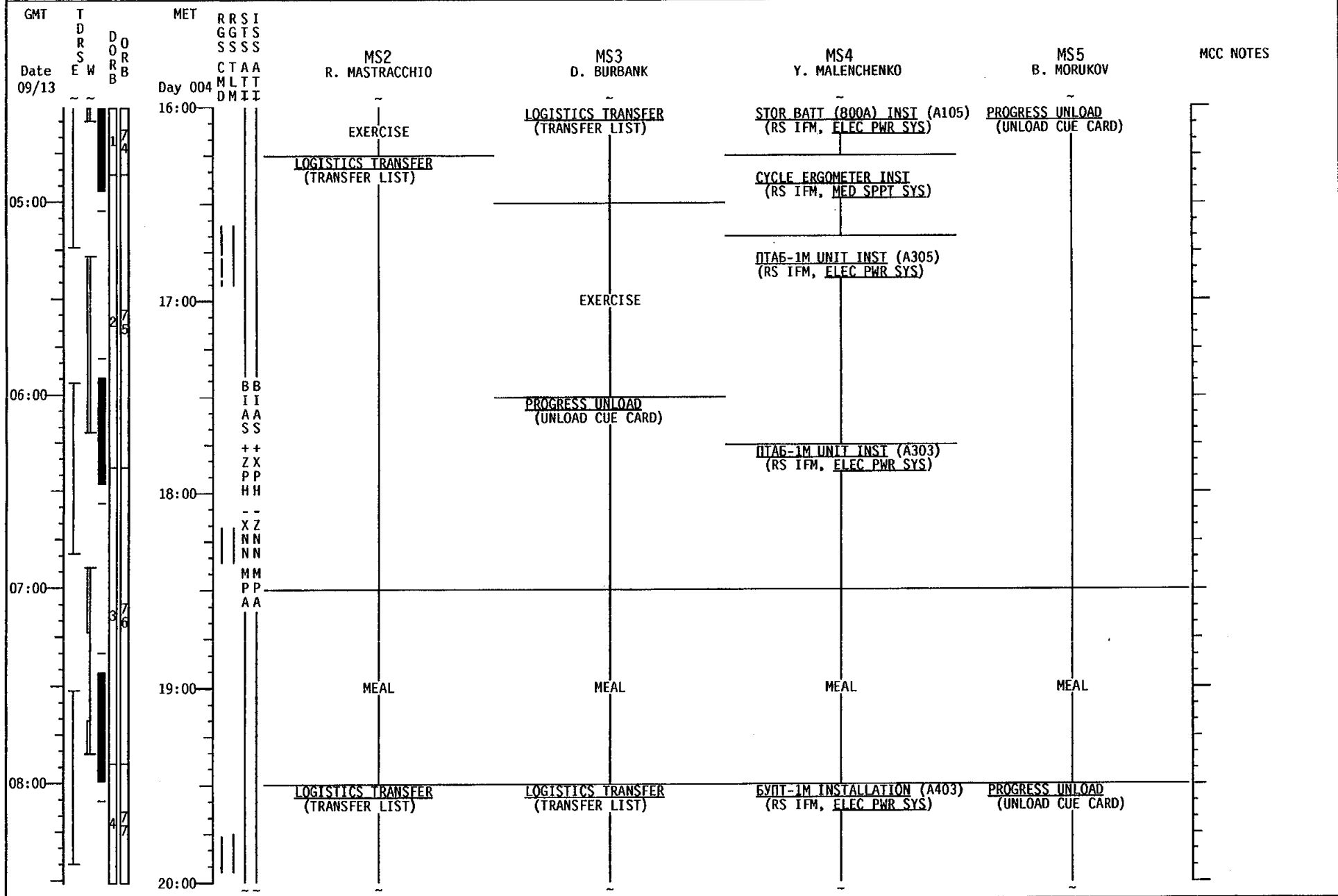
STS-106 (FD06)



STS-106 (FD06)



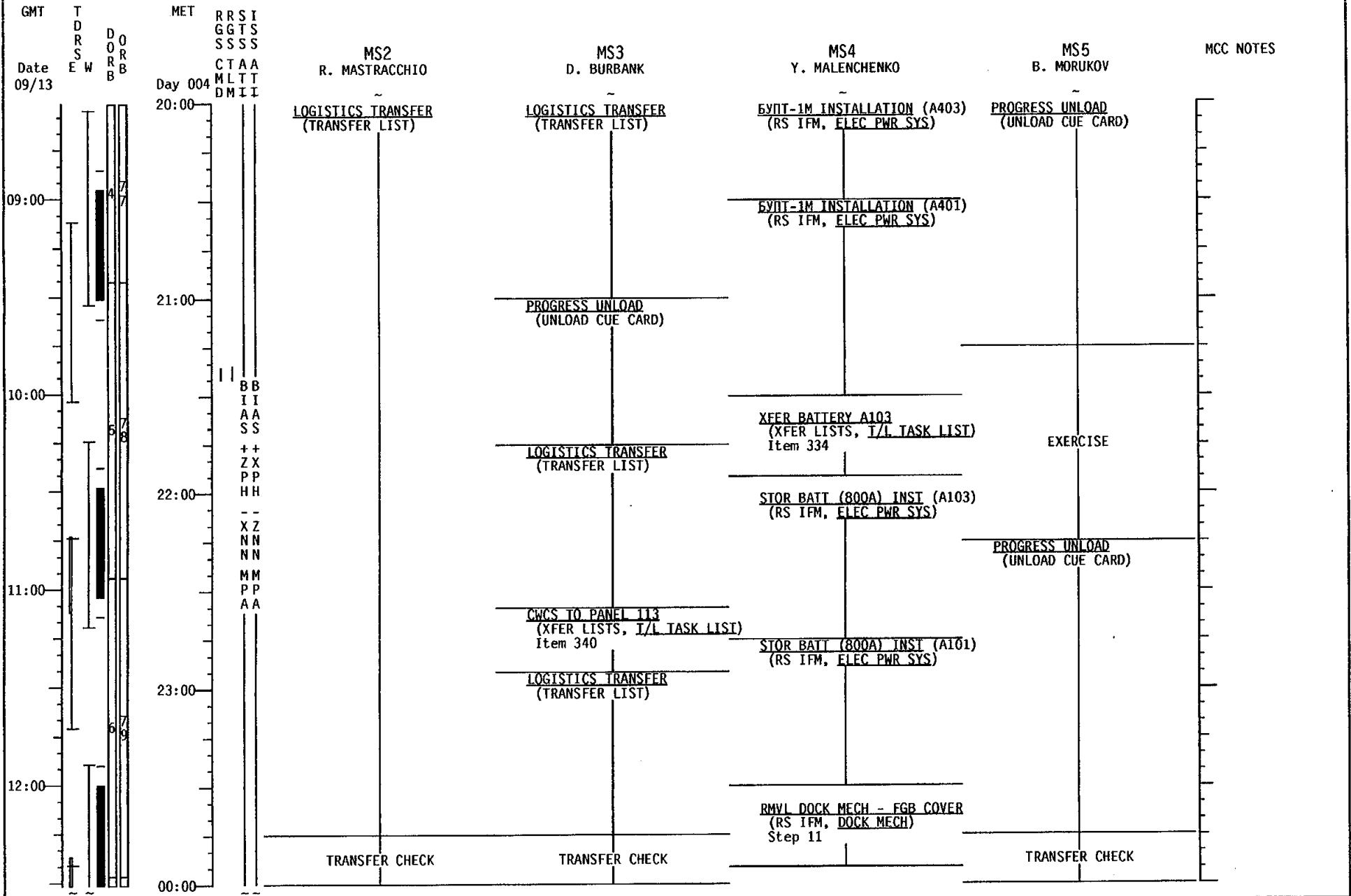
STS-106 (FD06)



STS-106 (FD06)

GMT	TDRSEW	DORBB	MET	RRSI GGTS SSSS CTAA MLTT DMII	CDR T. WILCUTT	PLT S. ALTMAN	MS1 E. LU	MCC-H	MCC-M	MCC NOTES
Date 09/13			Day 004							
09:00			20:00		<u>LOGISTICS TRANSFER</u> (TRANSFER LIST)		<u>BYOT-1M INSTALLATION (A403)</u> (RS IFM, ELEC PWR SYS)		BATT 4 CHARGE	
						<u>FILTER CLEANING</u> (IFM, SCHED MAINT) Inspect filters and clean as necessary		<u>BYOT-1M INSTALLATION (A401)</u> (RS IFM, ELEC PWR SYS)		
			21:00			<u>PCS 1(2) CONFIG (ORB OPS, ECLS)</u> Config SYS 2				
						√ WCS hose block filter				
10:00				BB II AA SS ++ ZX PP HH		<u>RCS REGULATOR RECONFIGURE</u> (ORB OPS, RCS)	<u>RADIATION DOSIMETER INSTALL</u> (ISS OPS, MED OPS)			
						<u>CABIN TEMP CNTL RECONFIG</u> MD44F Pin CAB TEMP CNTL act link to secondary act L1 CABIN TEMP CNTLR - 2				
			22:00			<u>HEATER RECONFIG-Config B</u> (ORB OPS, EPS)	<u>STOR BATT (800A) INST (A103)</u> (RS IFM, ELEC PWR SYS)			
				XZ NN NN	<u>FORMALDEHYDE MONITORING KIT</u> (ISS OPS, MED OPS) Steps 7-11					
11:00				MM PP AA	<u>XFER BATTERY A101</u> (XFER LISTS, I/L TASK LIST) Item 335					OCA OPS OSTs down
					<u>CWCS TO PANEL 109</u> (XFER LISTS, I/L TASK LIST) Items 338 339	<u>PGSC CHECK</u> (SOAR, NOM PROC)	<u>STOR BATT (800A) INST (A101)</u> (RS IFM, ELEC PWR SYS)			
			23:00							
12:00						EXERCISE				
							<u>ACOUSTIC DOSIMETER OPS</u> (ISS OPS, MED OPS) Steps 9-15.			
			00:00				<u>ISS OVRNT EGRS (ISS OPS, JOINT)</u>			OCA OPS OSTs up

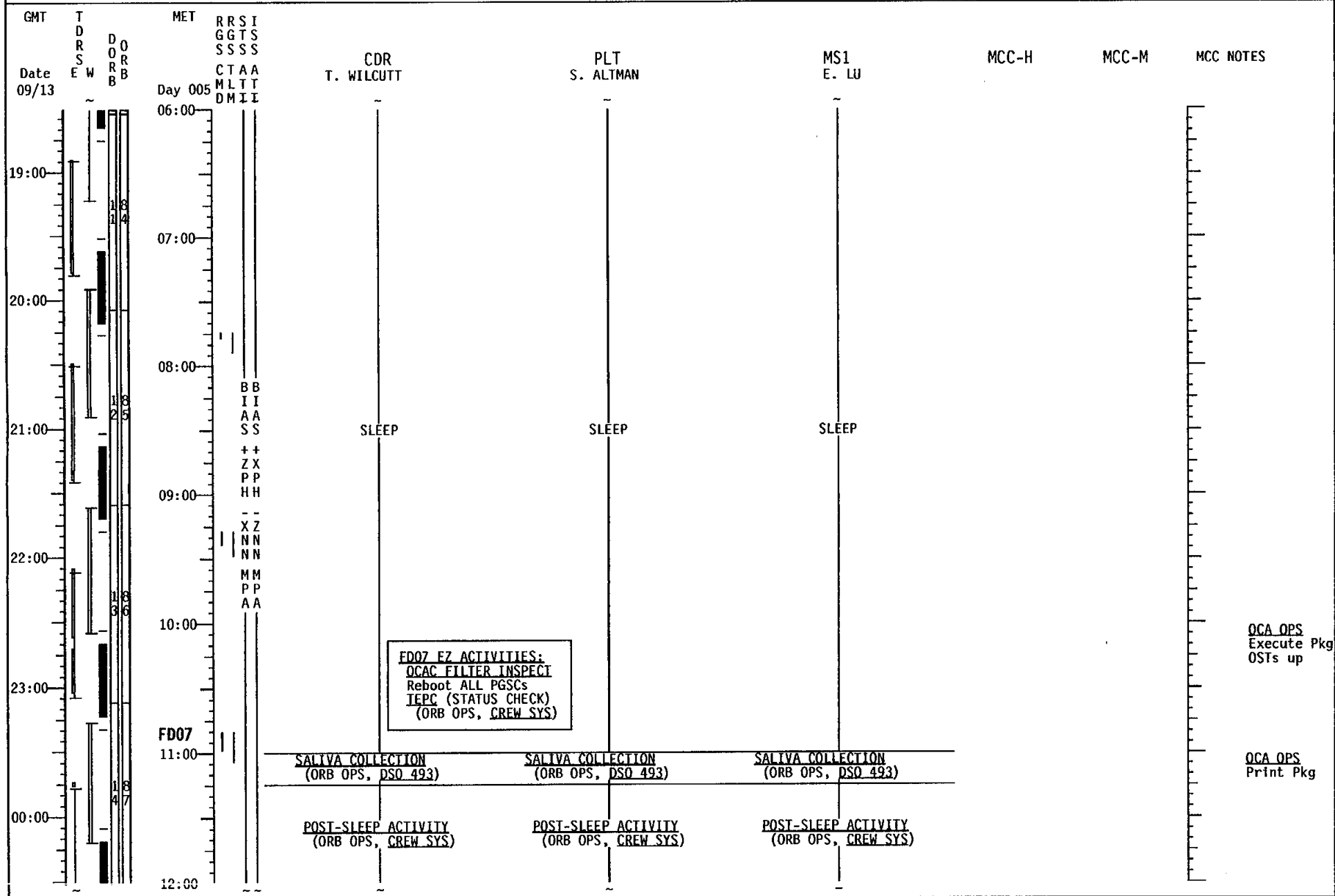
STS-106 (FD06)



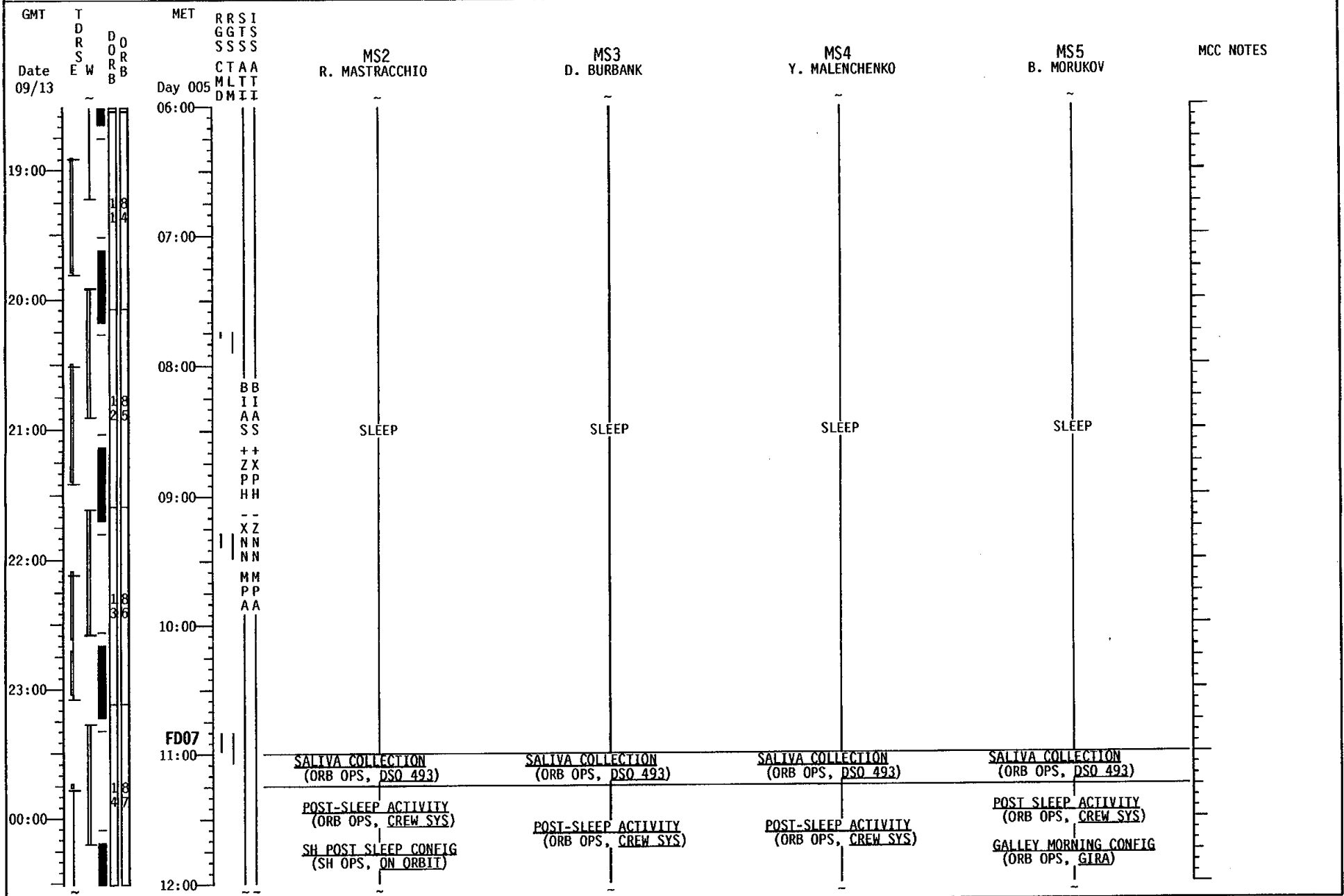
STS-106 (FD06)

GMT	T D R S E W	D O R B	MET	RRSI GGTS SSSS CTAA MLTT DMII	MS2 R. MASTRACCHIO	MS3 D. BURBANK	MS4 Y. MALENCHENKO	MS5 B. MORUKOV	MCC NOTES
Date 09/13			Day 005						
13:00			00:00		DAILY BRIEF	DAILY BRIEF		DAILY BRIEF	
					TRANSFER TAG-UP Call MCC-H: SH status	TRANSFER TAG-UP Call MCC-H: SH status		TRANSFER TAG-UP Call MCC-M: Progress status CGBA CHECK (PI OPS, CGBA)	
14:00			01:00				EXERCISE		
					PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		PRE SLEEP ACTIVITY (ORB OPS, CREW SYS)	
					SH PRE-SLEEP CONFIG (SH OPS, ON ORBIT)		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	GALLEY OVERNIGHT CONFIG (ORB OPS, GIRA)	
15:00			02:00	BB II AA SS ++ ZX PP HH					
16:00			03:00	-- XZ NN NN					
17:00			04:00	MM PP AA	SLEEP	SLEEP	SLEEP	SLEEP	
18:00			05:00						
			06:00						

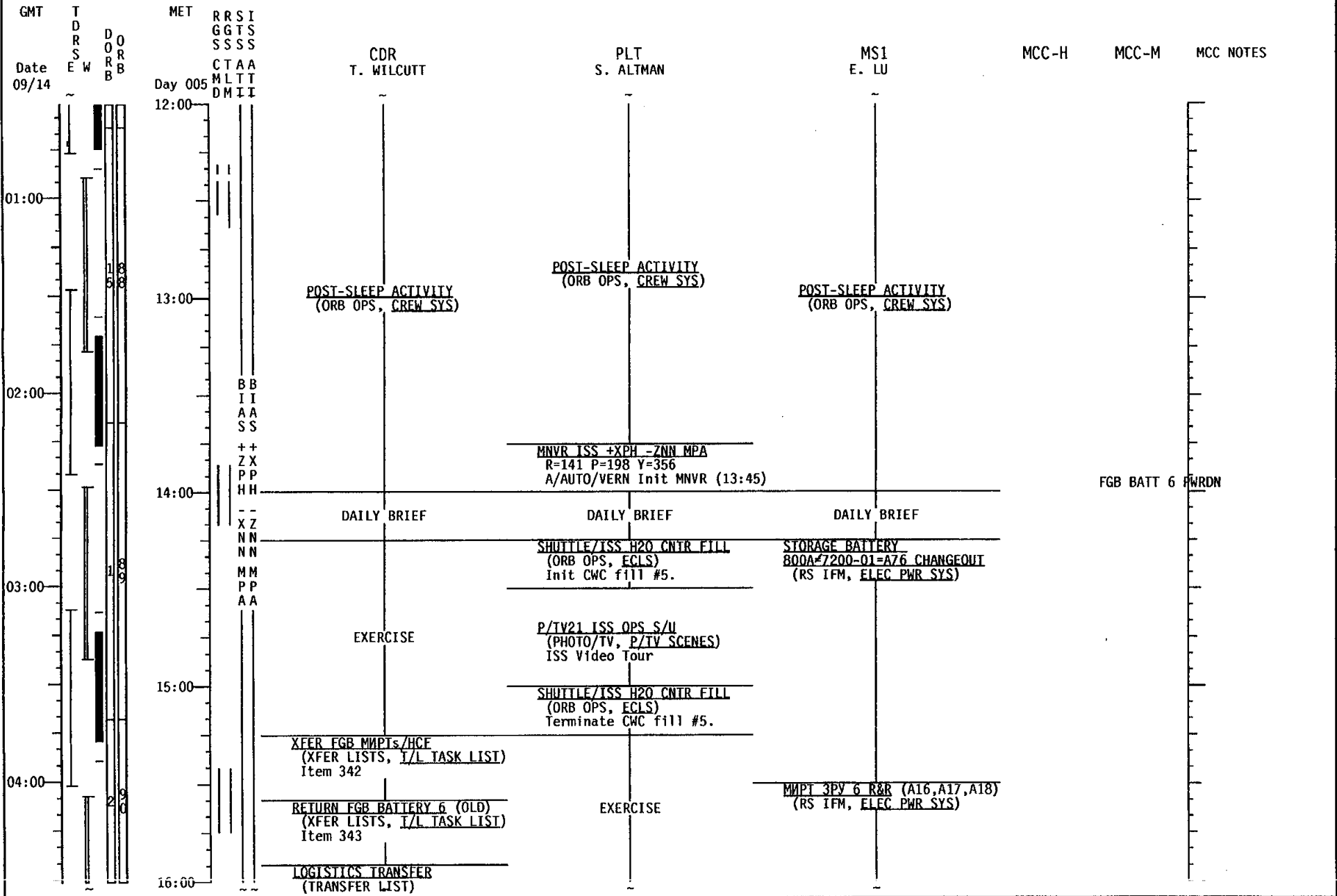
STS-106 (FD07)



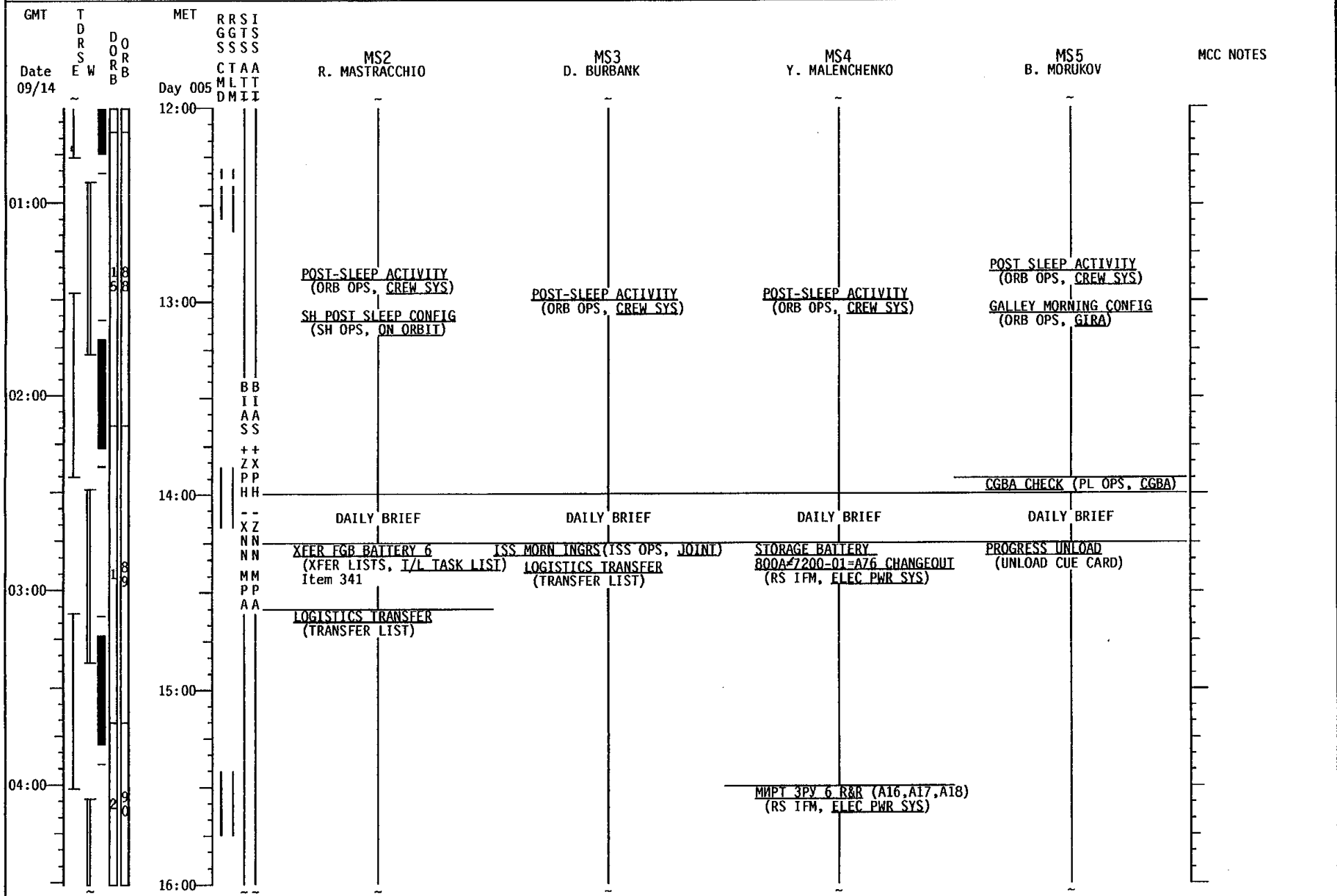
STS-106 (FD07)



STS-106 (FD07)



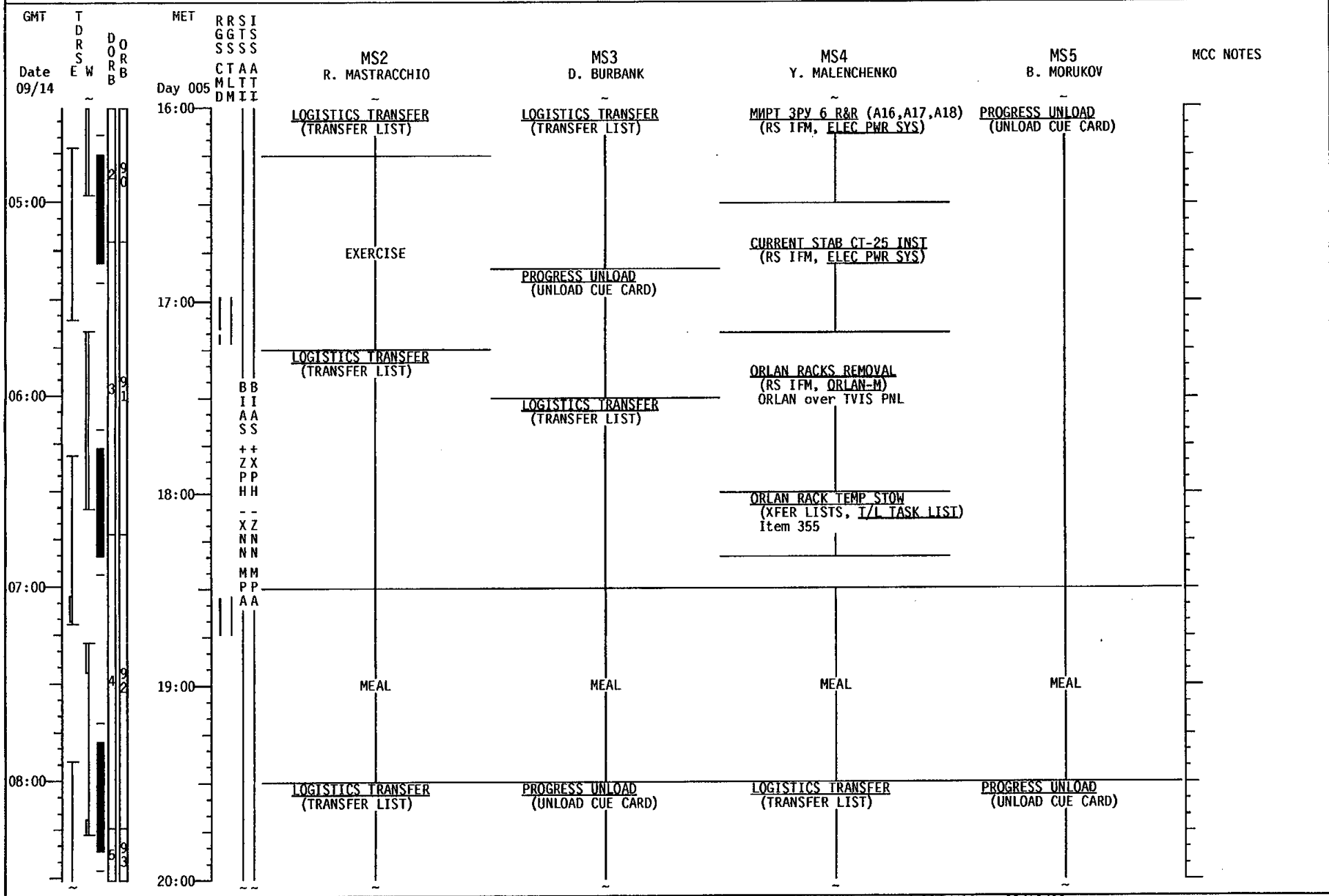
STS-106 (FD07)



STS-106 (FD07)

GMT	TDRS Date 09/14	DORR E W	DOORB R B	MET Day 005	RRSI GGTS SSSS CTAA MLTT DMII	CDR T. WILCUTT	PLT S. ALTMAN	MS1 E. LU	MCC-H	MCC-M	MCC NOTES
						LOGISTICS TRANSFER (TRANSFER LIST)	EXERCISE	MMPT 3PY 6 R&R (A16,A17,A18) (RS IFM, ELEC PWR SYS)			
						CWCS TO PANEL 110 (XFER LISTS, T/L TASK LIST) Items 344 345	P/TV21 ISS VIDEO TOUR (PHOTO TV, P/TV SCENES)				
						LOGISTICS TRANSFER (TRANSFER LIST)	VTR SETUP (CUE CARD, TV/VTR)	CURRENT STAB CT-25 INST (RS IFM, ELEC PWR SYS)			
					BB II AA SS ++ ZX PP HH		VTR PLAYBACK (CUE CARD, TV/VTR) ISS Video Tour KU TDRW (17:09-18:04)	ORLAN RACKS REMOVAL (RS IFM, ORLAN-M) ORLAN over TVIS PNL			FGB BATT 6 PWRUP BATT 6 CHARGE
					-- XZ NN NN MM PP AA	CWC TRANSFER (XFER LISTS, T/L TASK LIST) Items 346 347	SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) Init CWC fill #6.	LOGISTICS TRANSFER (TRANSFER LIST)			
						MEAL	MEAL	MEAL			
						CWC TRANSFER (2 bags) (XFER LISTS, T/L TASK LIST) Items 348 349	SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) Terminate CWC fill #6.	LOGISTICS TRANSFER (TRANSFER LIST)			

STS-106 (FD07)



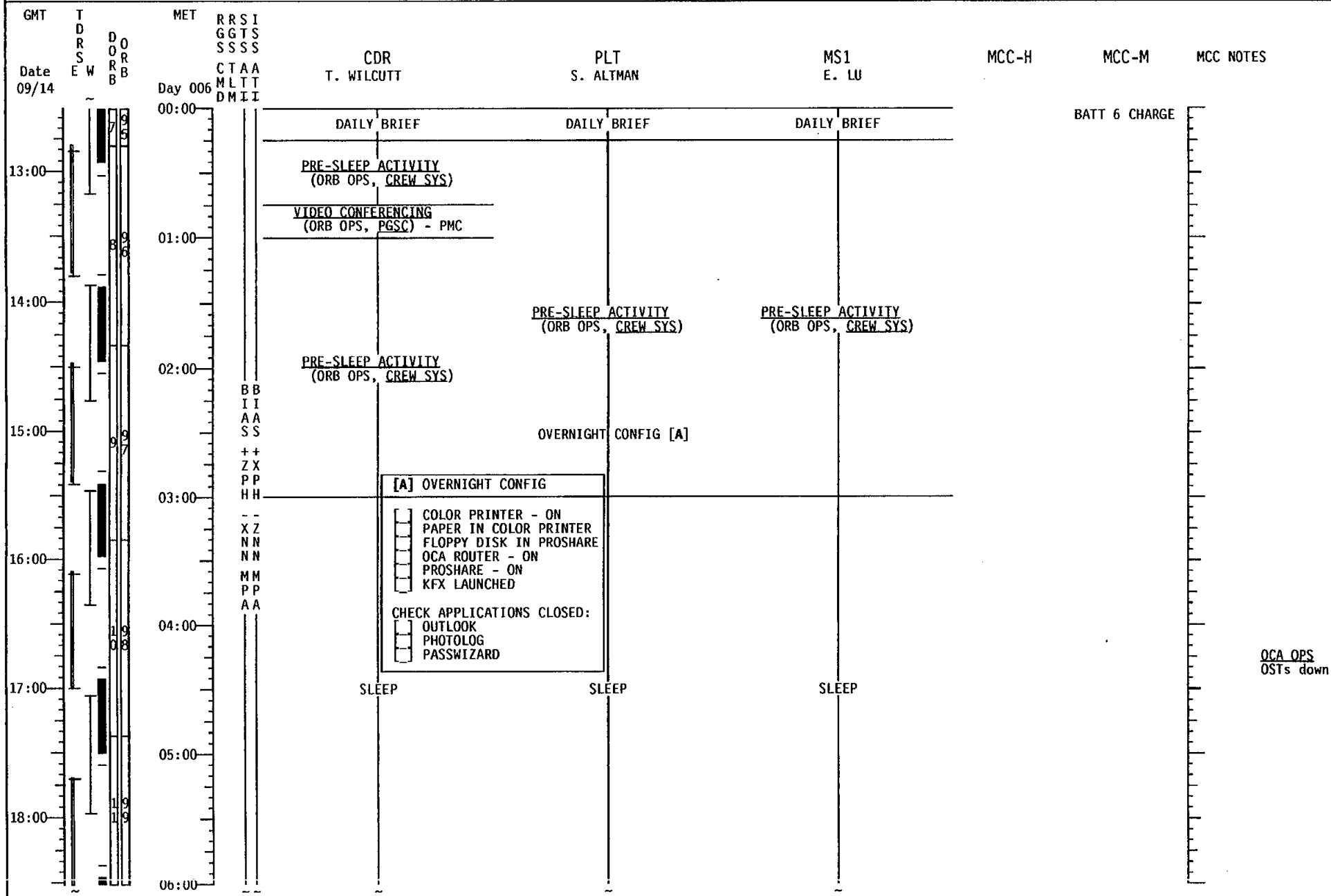
STS-106 (FD07)

GMT	T D R S E W	D O R B	MET	RRSI GGTS SSSS CTAA MLTT DMII	CDR T. WILCUTT	PLT S. ALTMAN	MS1 E. LU	MCC-H	MCC-M	MCC NOTES
Date 09/14			Day 005							
09:00		5 3	20:00	BB II AA SS ++ ZX PP HH	<u>LOGISTICS TRANSFER</u> (TRANSFER LIST)		<u>LOGISTICS TRANSFER</u> (TRANSFER LIST)		BATT 6 CHARGE	
10:00		6 4	21:00	-- XZ NN NN MM PP AA		L17 Check MCIU filter screen <u>WCS COMPACTOR OPS (DUAL-VANE)</u> (CUE CARD) <u>PGSC CHECK</u> (SOAR, NOM_PROC)				
11:00		6 4	22:00	-- XZ LL VV +- YY VV VV		<u>MNVR (TRK) BIAS -XLV +YVV</u> TG-2 BV=5 P=165 Y=0 OM=270 A/AUTO/VERN Init TRK (21:51:02) <u>SUPPLY/WASTE WATER DUMP</u> (ORB OPS, ECLS) Initiate Waste Dump				
12:00		7 5	23:00	-- XZ LL VV +- YY VV VV	<u>XFER TVIS FAN</u> (XFER LISTS, I/L TASK LIST) Item 357	<u>P/TV21 ISS INT OPS S/U (PAO)</u> (PHOTO/TV, P/TV SCENES)	EXERCISE			OCA OPS OSTs down
					<u>PAO EVENT SUPPORT</u> REF MSG ###	<u>SUPPLY/WASTE WATER DUMP</u> (ORB OPS, ECLS) Terminate Waste Dump				
						<u>MNVR ISS +XPH -ZNN MPA</u> ITEM 1, MET 5/23:22:25 ITEM 18 EXEC (MNVR)	<u>TREADMILL FAN INST</u> (RS IFM, VENT SYS)			OCA OPS OSTs up
00:00										

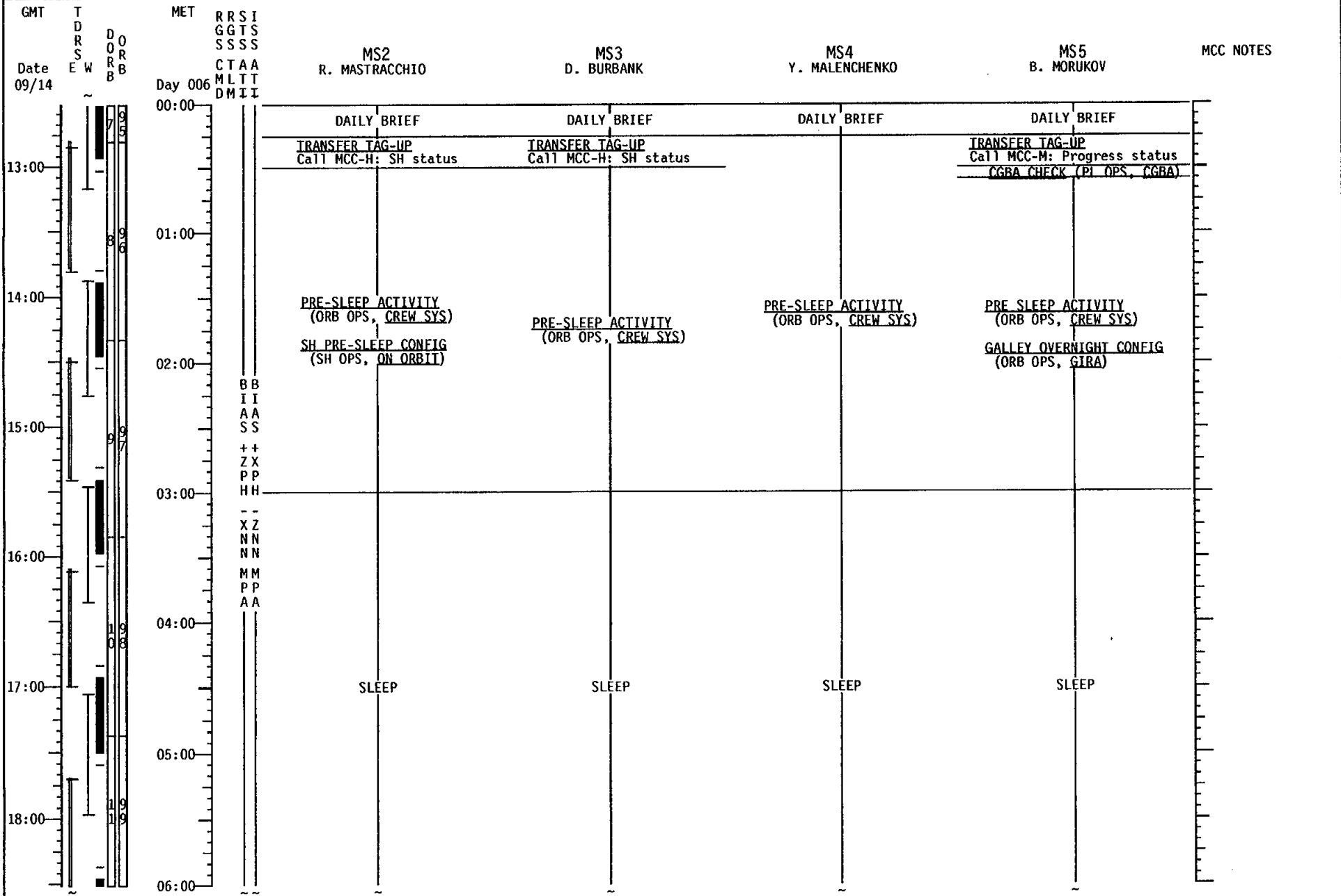
STS-106 (FD07)

GMT	TDRS	DORB	MET	RRSI GGTS SSSS CTAA MLTT DMTI	MS2 R. MASTRACCHIO	MS3 D. BURBANK	MS4 Y. MALENCHENKO	MS5 B. MORUKOV	MCC NOTES
Date 09/14			Day 005						
09:00			20:00	BB II AA SS ++ ZX PP HH	<u>LOGISTICS TRANSFER</u> (TRANSFER LIST)	<u>PROGRESS UNLOAD</u> (UNLOAD CUE CARD)	<u>LOGISTICS TRANSFER</u> (TRANSFER LIST)	<u>PROGRESS UNLOAD</u> (UNLOAD CUE CARD)	
			21:00	-- XZ NN NN MM PP AA		EXERCISE			
10:00						<u>LOGISTICS TRANSFER</u> (TRANSFER LIST)			
			22:00	BB II AA SS				EXERCISE	
11:00				-- XZ LL VV +- YY VV VV				<u>PROGRESS UNLOAD</u> (UNLOAD CUE CARD)	
			23:00			<u>PAO VOICE CHECK/EVENT</u> TV at TDR (__:__ to __:__) REF MSG ###			
12:00							EXERCISE		
						<u>ISS OVRNT EGRS (ISS OPS, JOINT)</u>			
			00:00		TRANSFER CHECK	TRANSFER CHECK		TRANSFER CHECK	

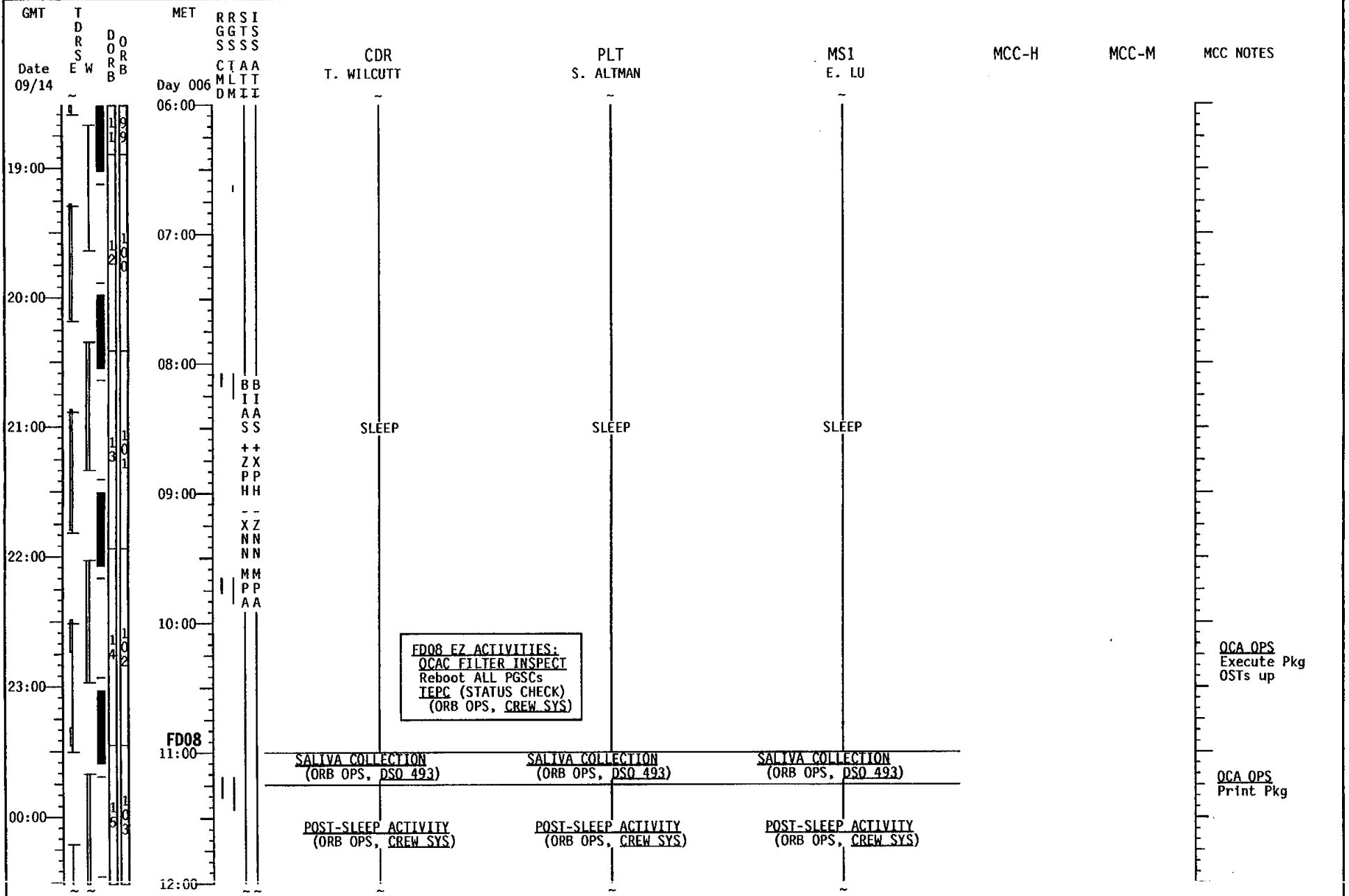
STS-106 (FD07)



STS-106 (FD07)

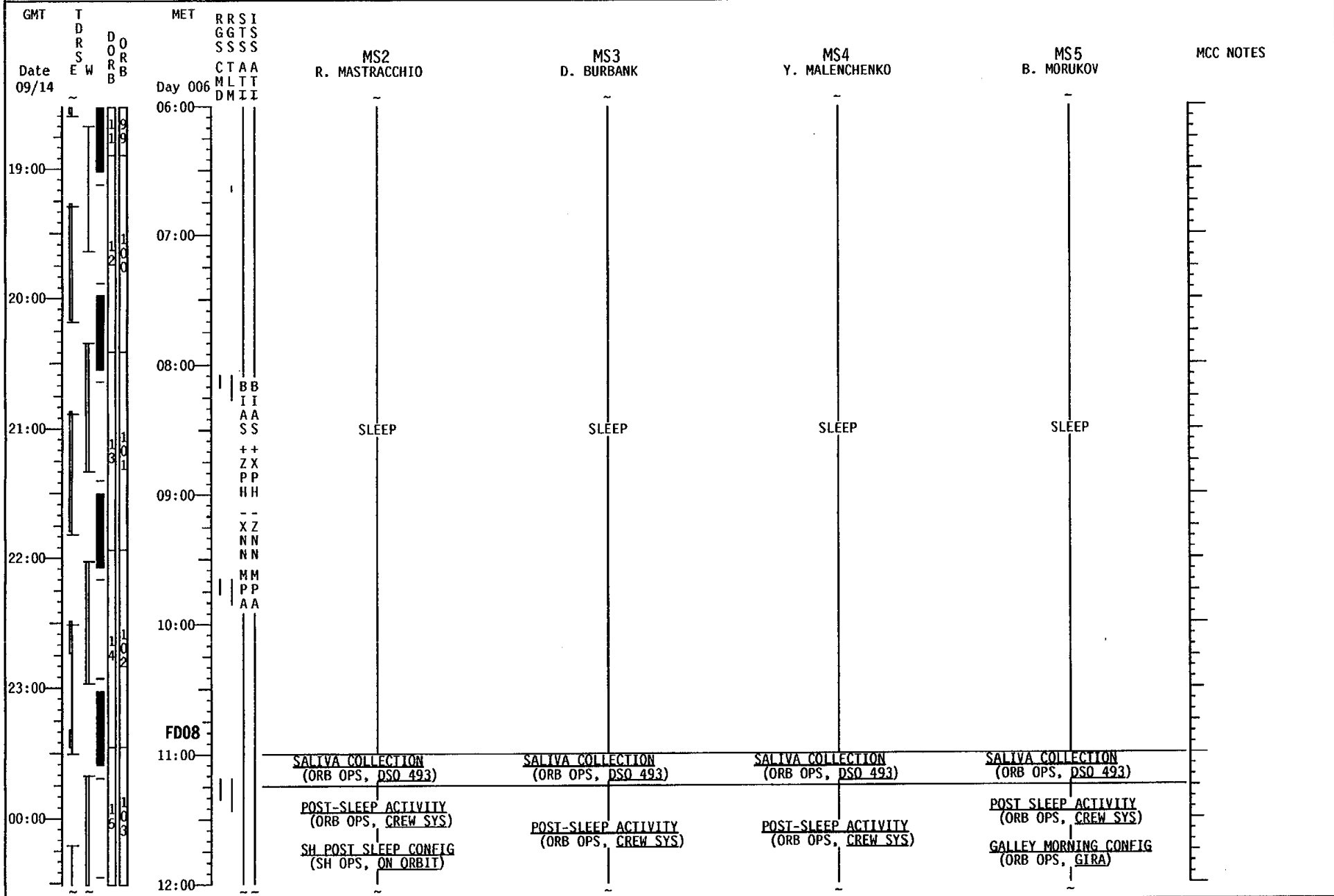


STS-106 (FD08)

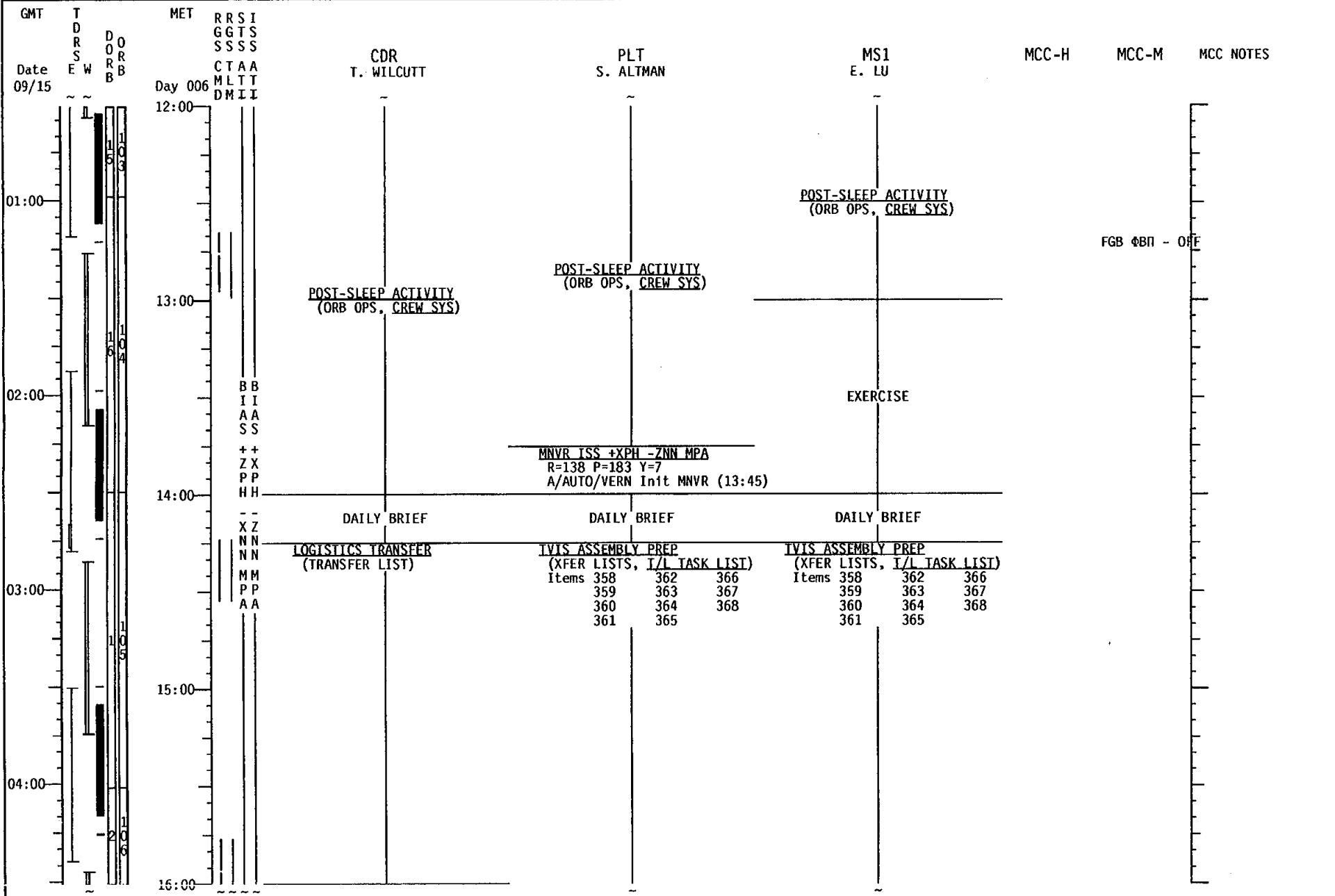


FD08 EZ ACTIVITIES:
 QCAC FILTER INSPECT
 Reboot ALL PGSCs
 TERC (STATUS CHECK)
 (ORB OPS, CREW SYS)

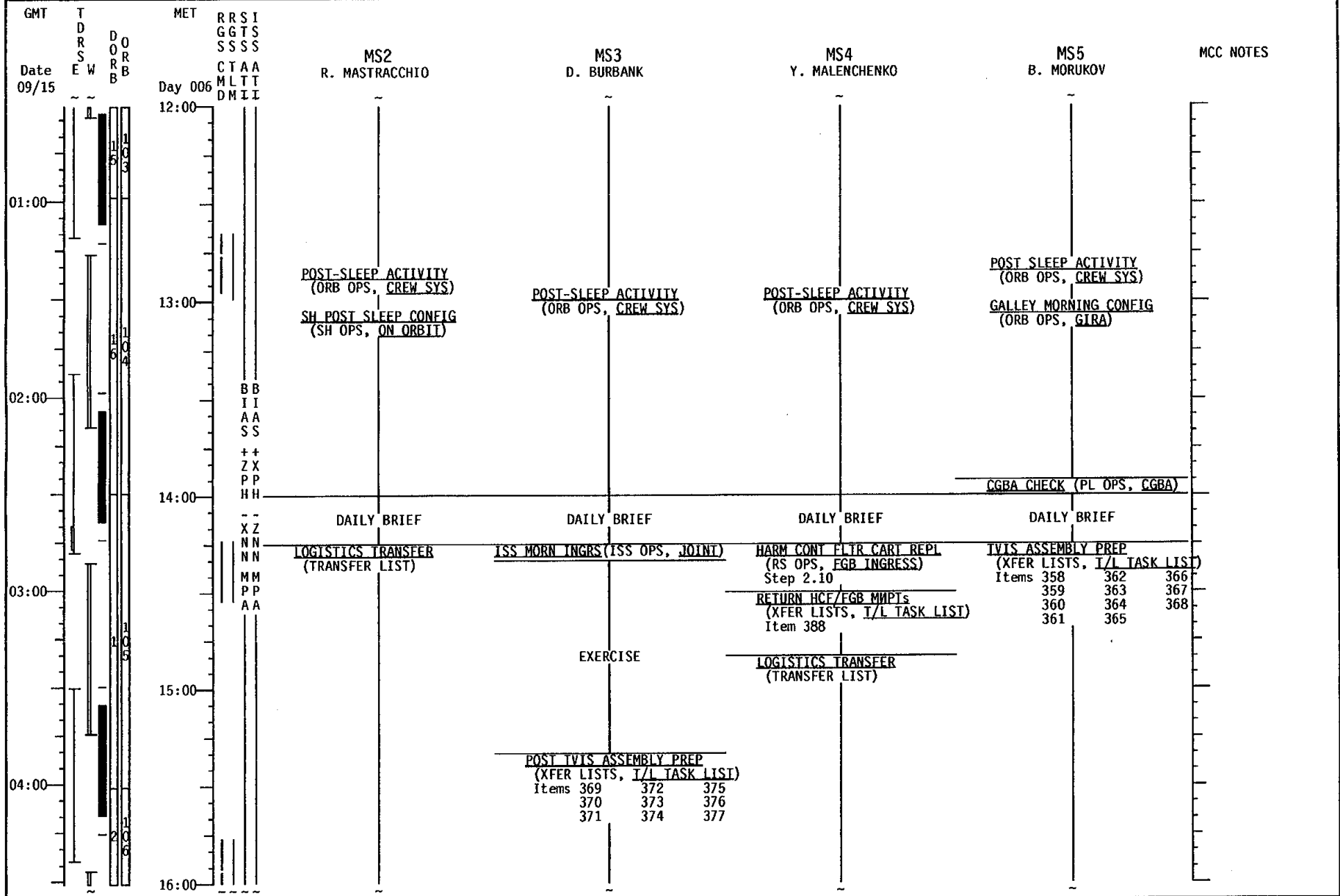
STS-106 (FD08)



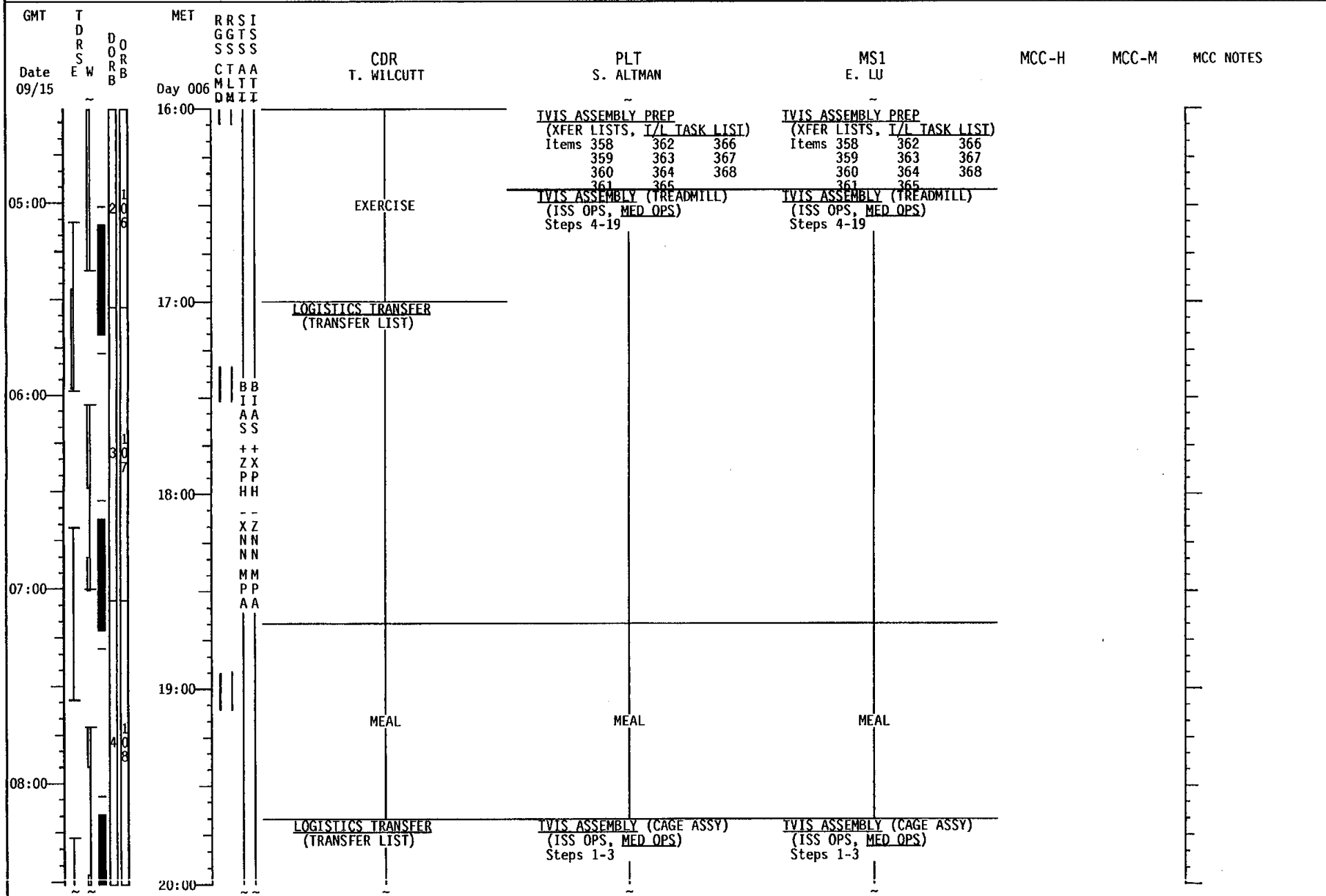
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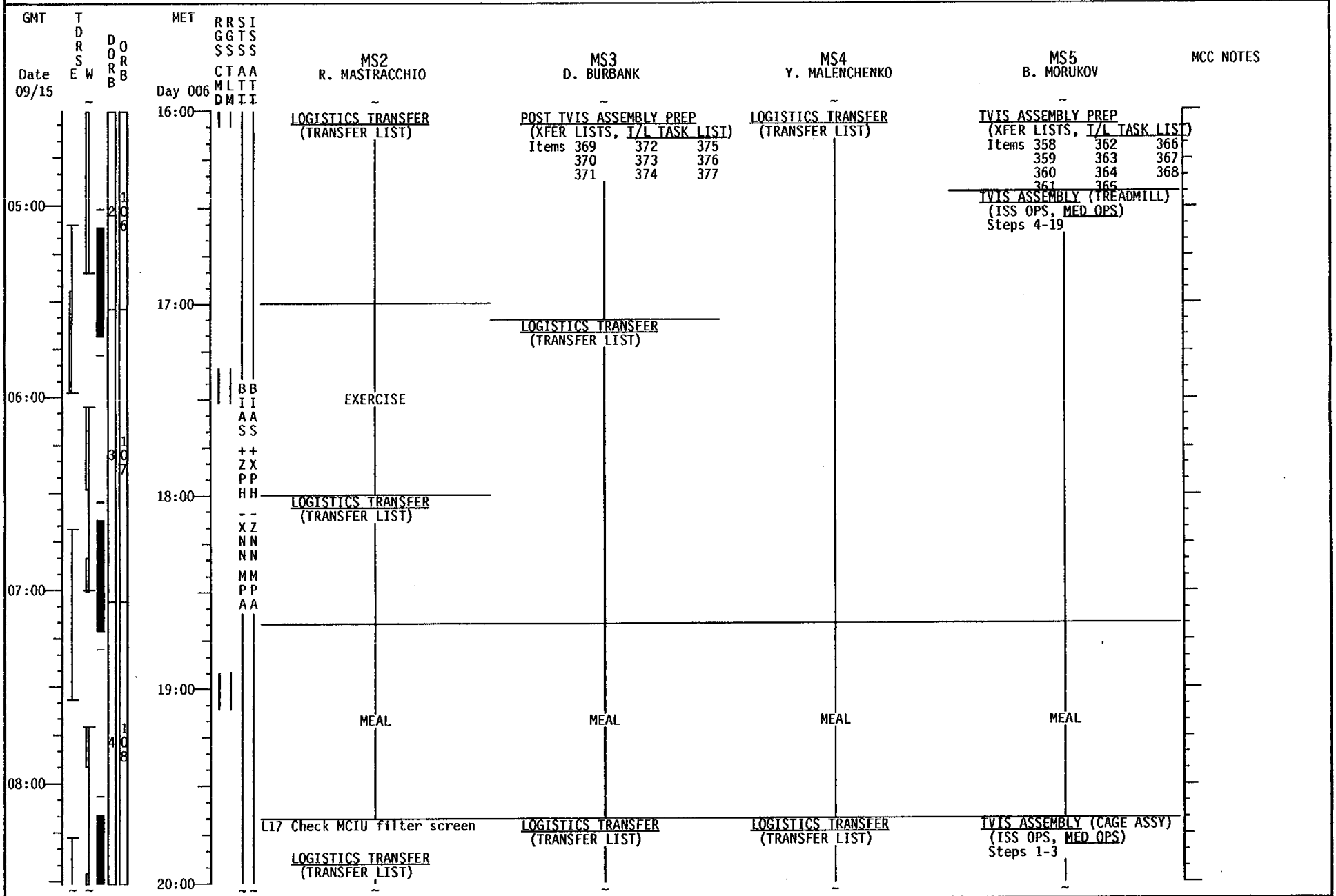
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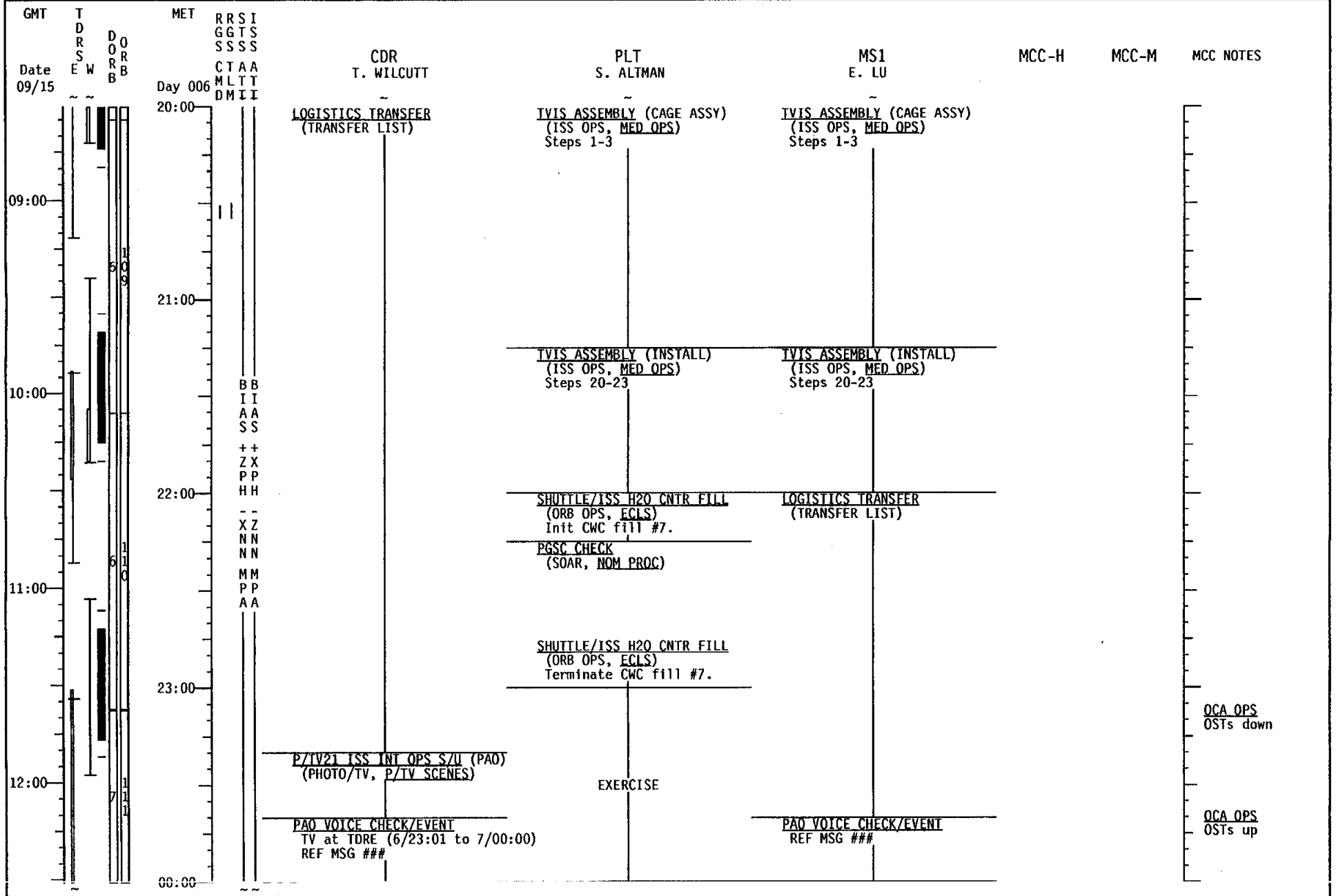
STS-106 (FD08)



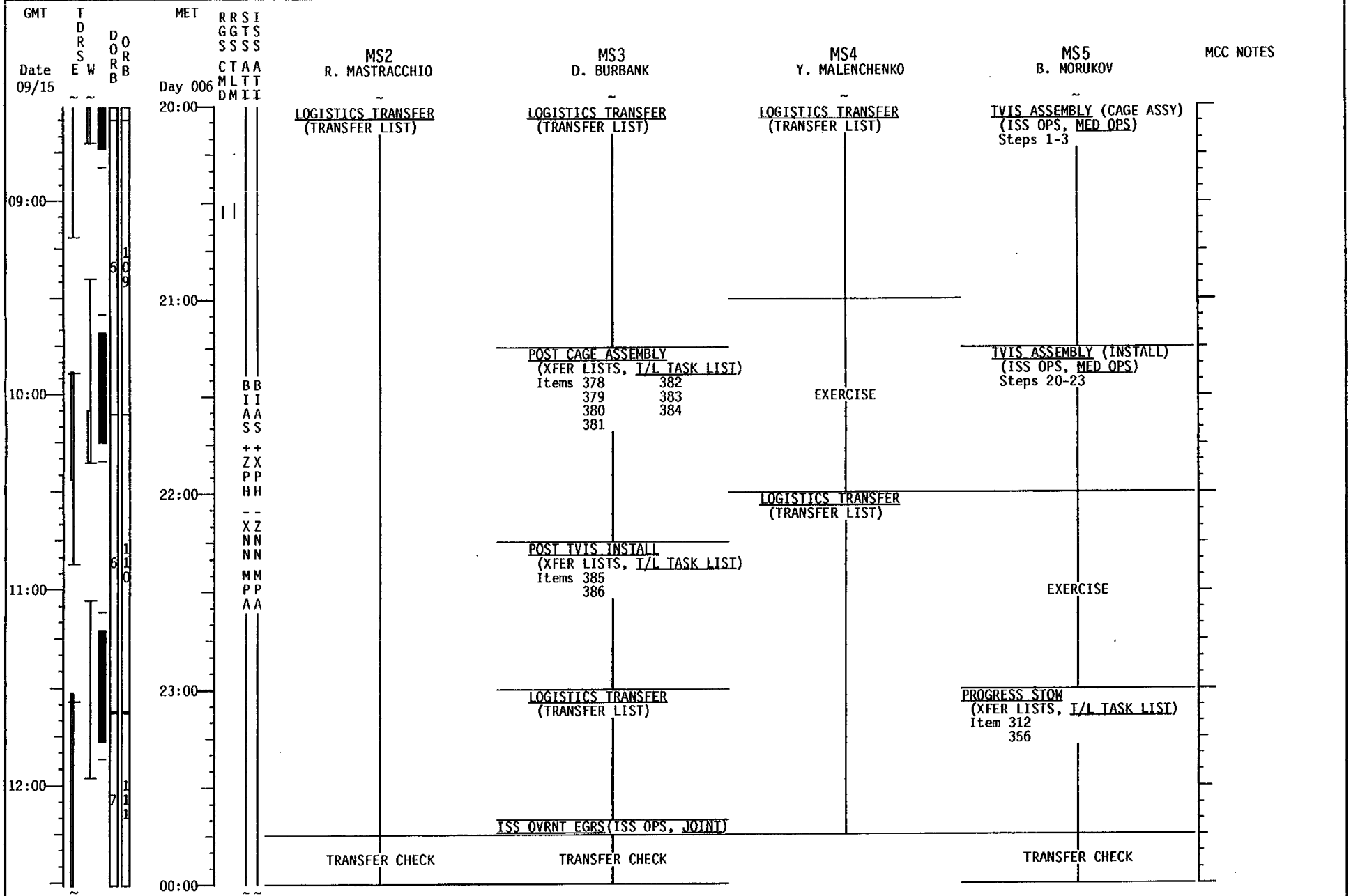
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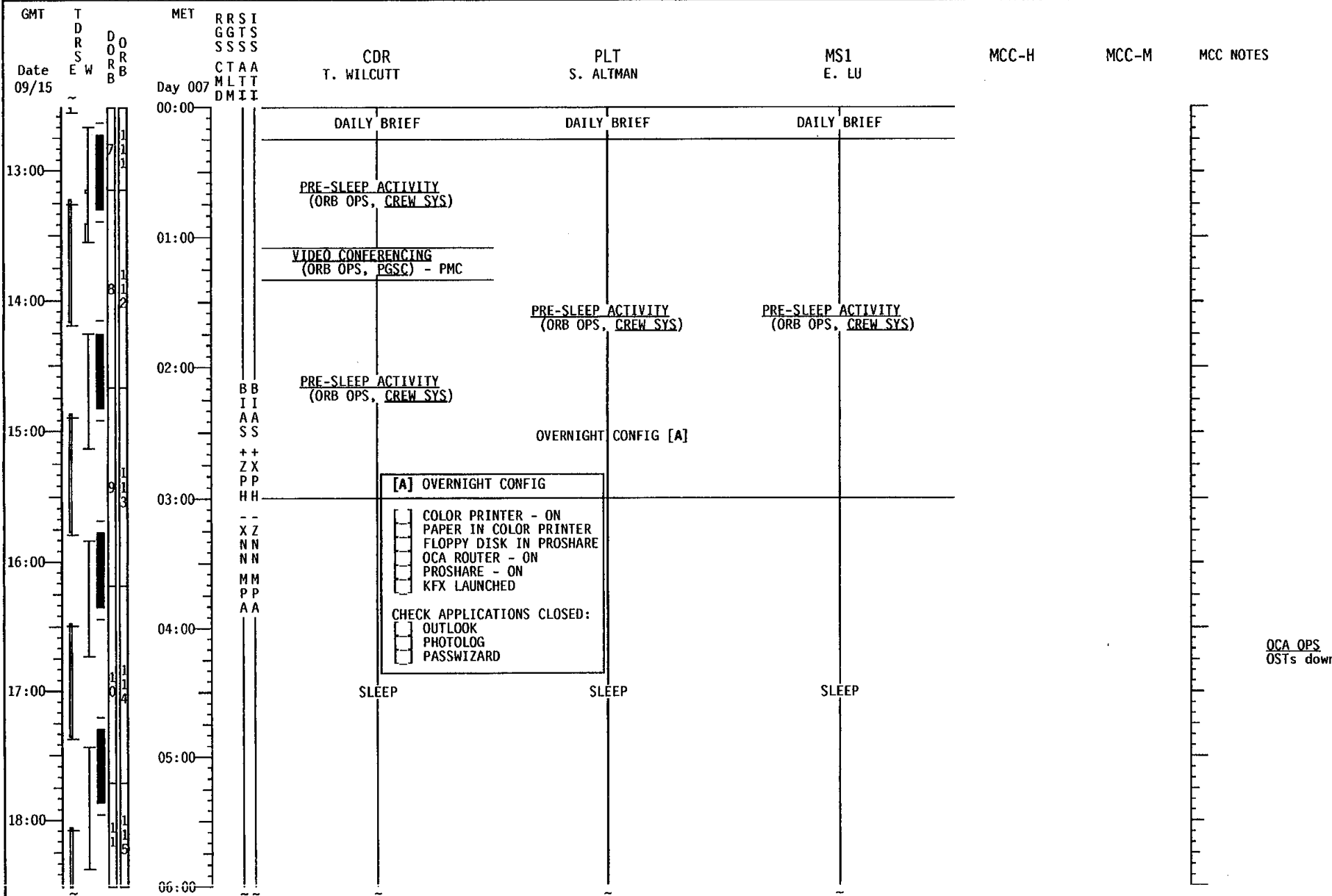
STS-106 (FD08)



STS-106 (FD08)



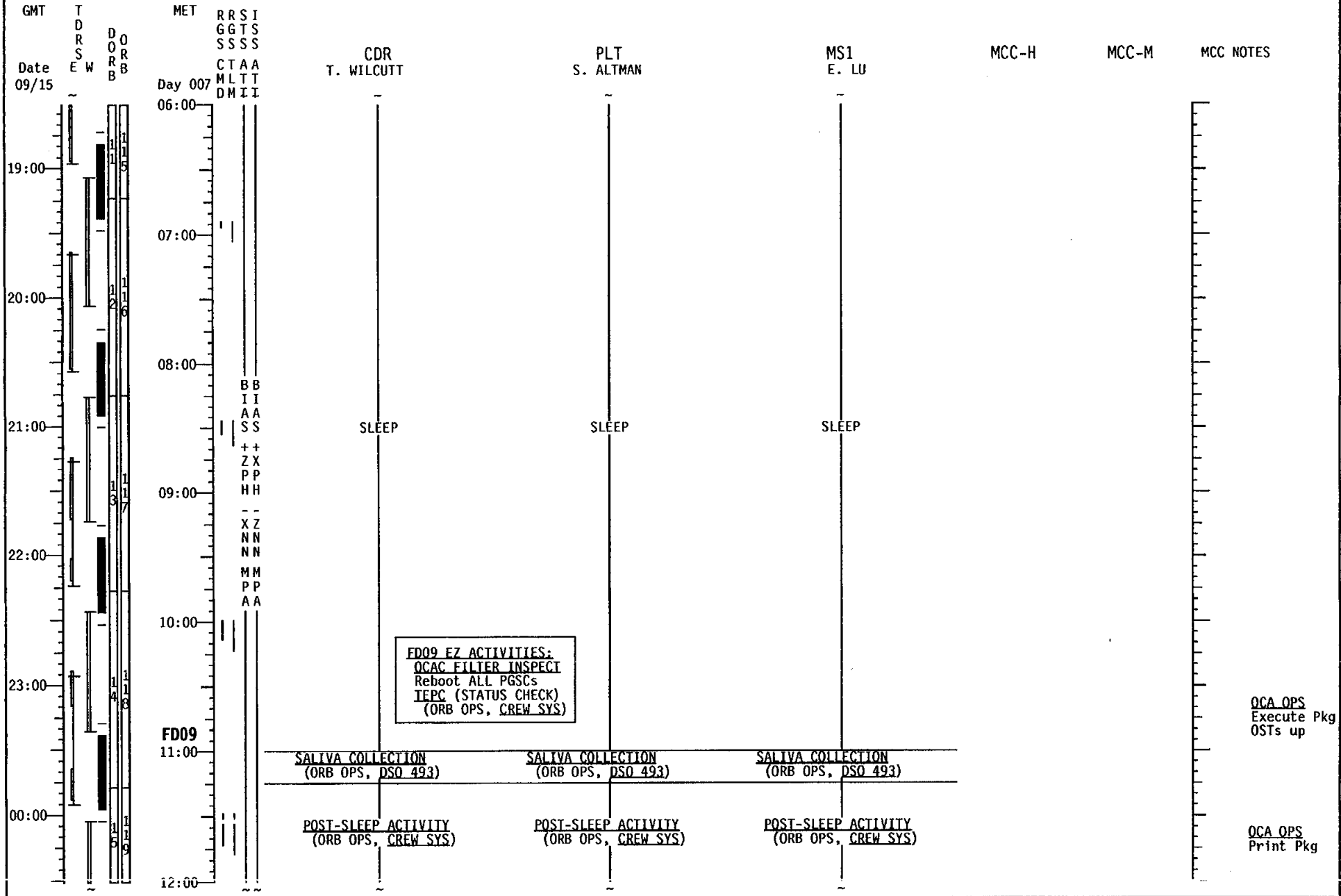
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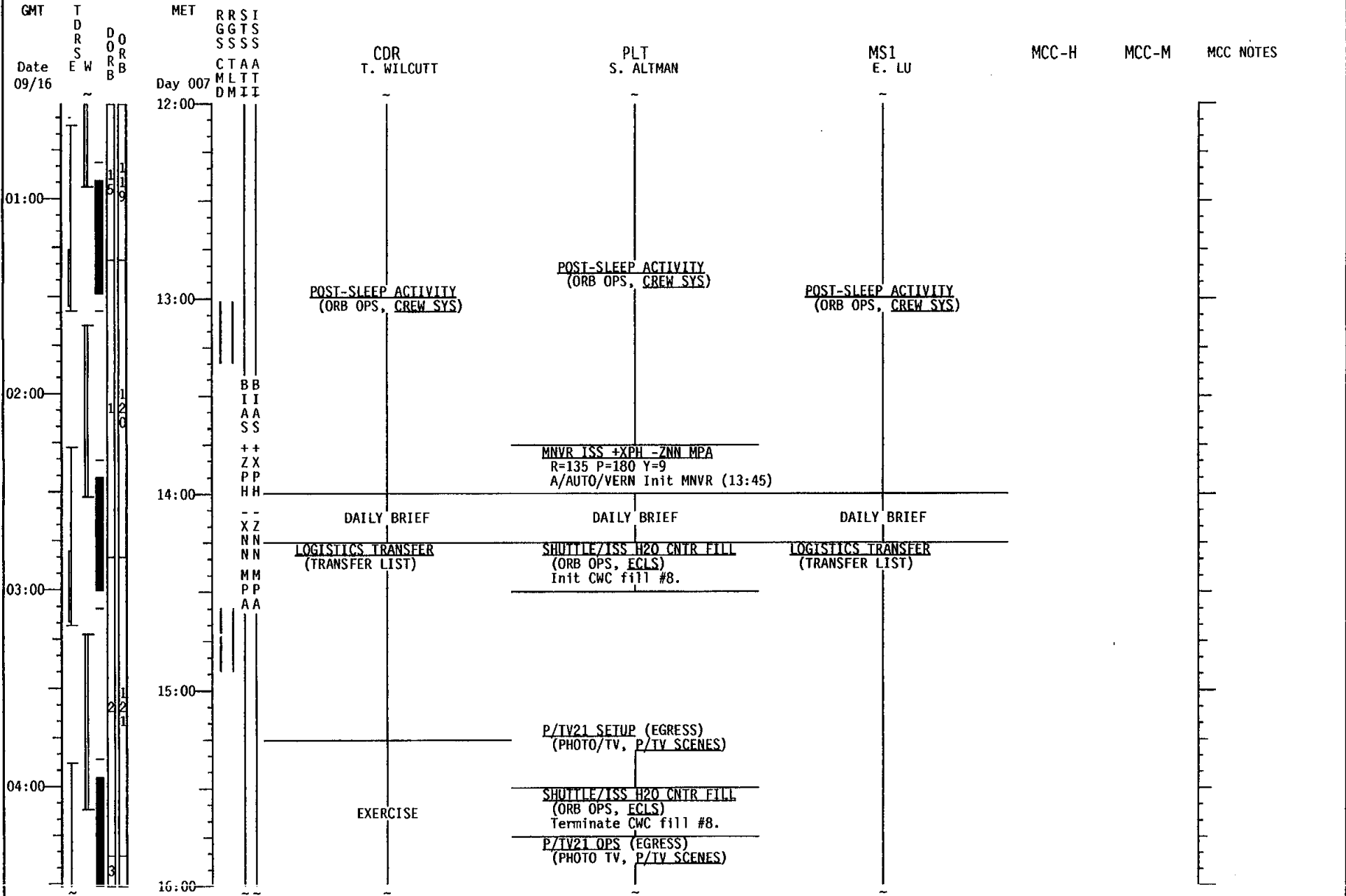
STS-106 (FD08)

GMT	T D R S E W	D O R B	MET	RRSI GGTS SSSS CTAA MLTT DMII	MS2 R. MASTRACCHIO	MS3 D. BURBANK	MS4 Y. MALENCHENKO	MS5 B. MORUKOV	MCC NOTES
Date 09/15			Day 007						
13:00		7	00:00		DAILY BRIEF	DAILY BRIEF	DAILY BRIEF	DAILY BRIEF	
					TRANSFER TAG-UP Call MCC-H: SH status	TRANSFER TAG-UP Call MCC-H: SH status		TRANSFER TAG-UP Call MCC-M: Progress status CGBA CHECK (PI OPS, CGBA)	
14:00		8	01:00						
					PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE SLEEP ACTIVITY (ORB OPS, CREW SYS)	
			02:00		SH PRE-SLEEP CONFIG (SH OPS, ON ORBIT)			GALLEY OVERNIGHT CONFIG (ORB OPS, GIRA)	
15:00				BB II AA SS ++ ZX PP HH					
16:00		9	03:00						
				-- XZ NN NN MM PP AA					
17:00		10	04:00		SLEEP	SLEEP	SLEEP	SLEEP	
18:00		11	05:00						
			06:00						

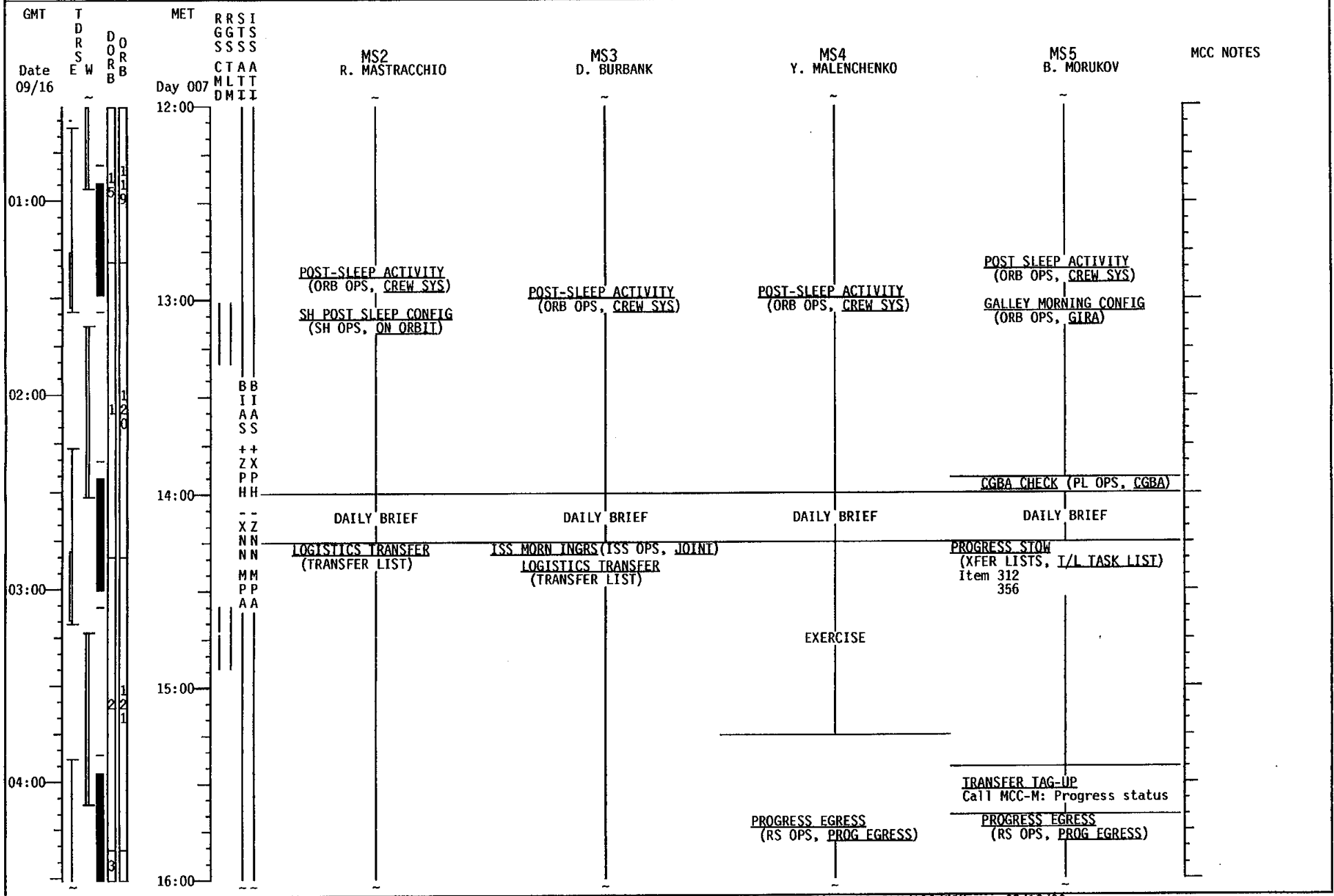
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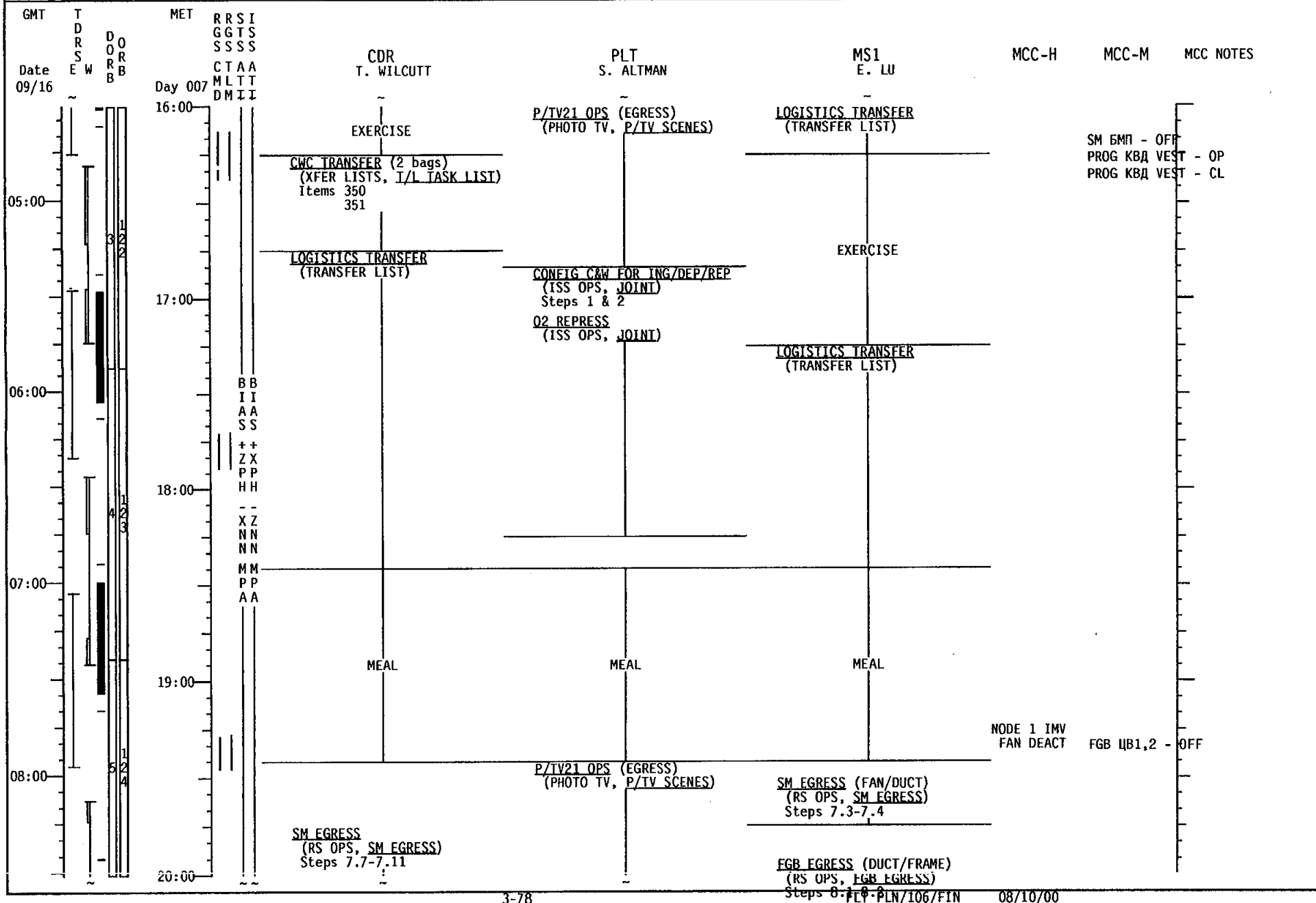
STS-106 (FD09)



STS-106 (FD09)



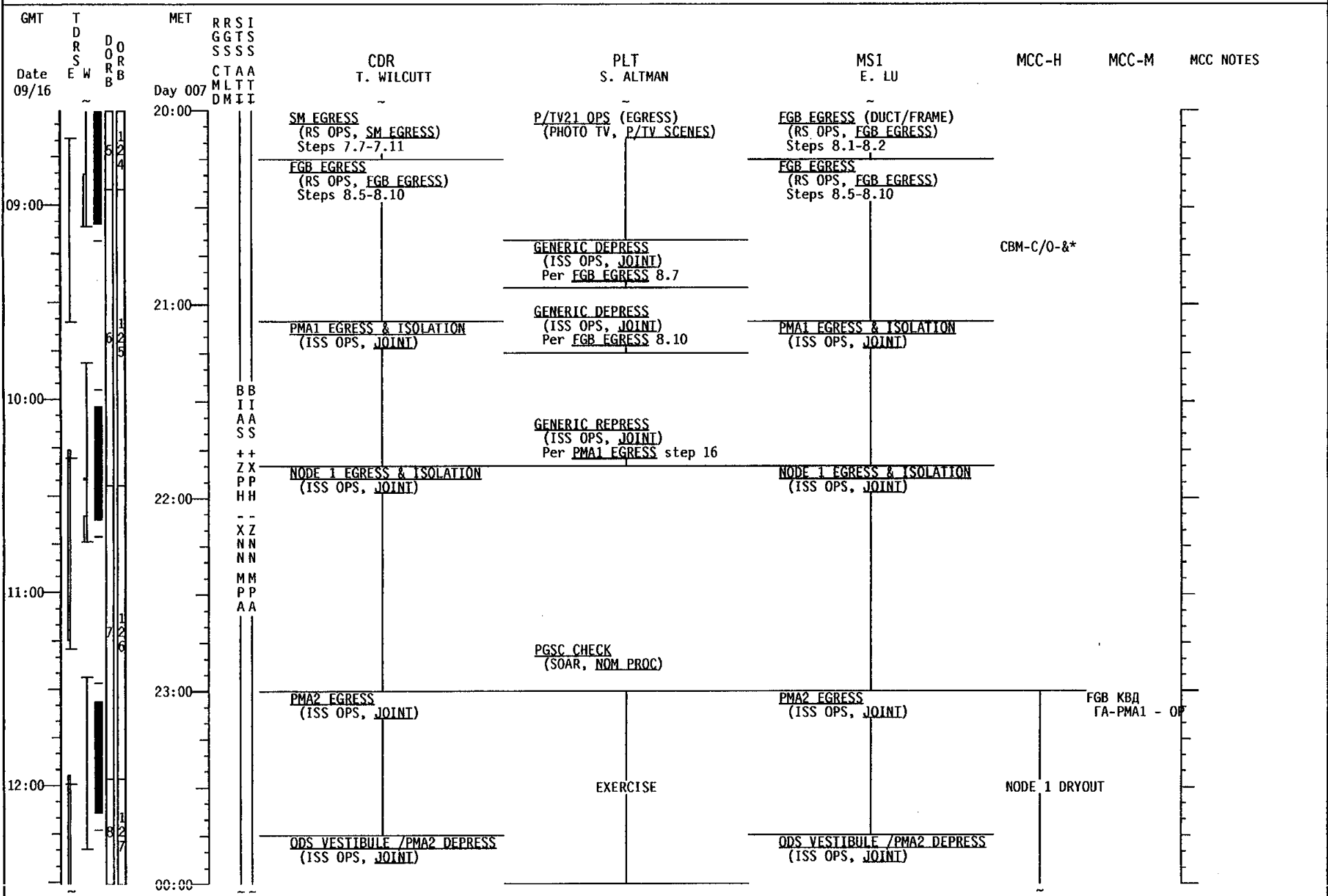
STS-106 (FD09)



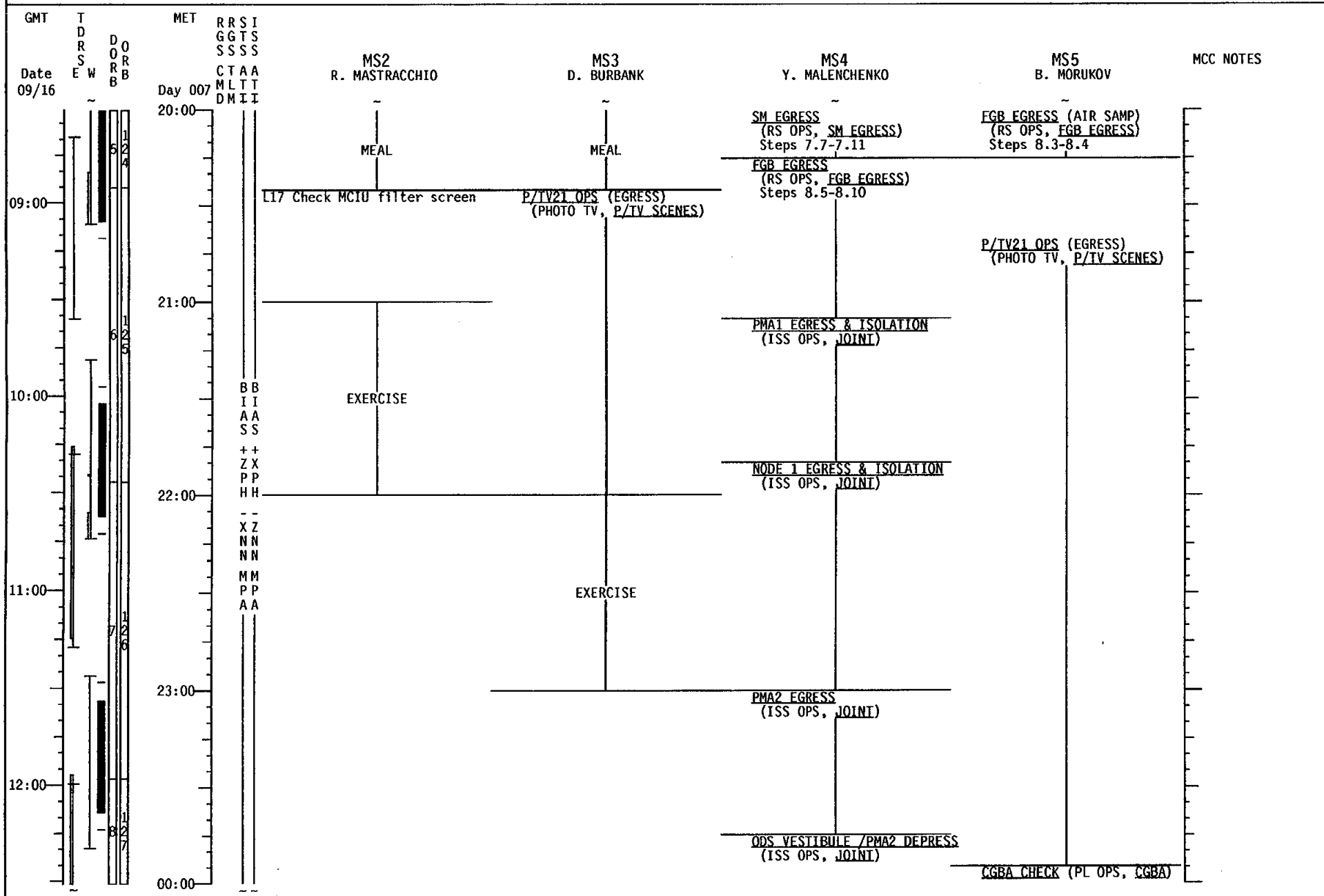
STS-106 (FD09)

GMT	T D R S E W	D O R B	MET	RRSI GGTS SSSS CTAA MLTT DMI I	MS2 R. MASTRACCHIO	MS3 D. BURBANK	MS4 Y. MALENCHENKO	MS5 B. MORUKOV	MCC NOTES
Date 09/16			Day 007						
05:00			16:00		LOGISTICS TRANSFER (TRANSFER LIST)	LOGISTICS TRANSFER (TRANSFER LIST)	PROGRESS EGRESS (RS OPS, PROG EGRESS)	PROGRESS EGRESS (RS OPS, PROG EGRESS)	
							SM EGRESS (PO-11PK HATCH) (RS OPS, SM EGRESS) Step 7.1-7.2	SM EGRESS (PO-11PK HATCH) (RS OPS, SM EGRESS) Step 7.1-7.2	
			17:00				XFER TOILET (XFER LISTS, T/L TASK LIST) Item 389		
							PRETREAT TANK/HOSE INST (RS IFM, TOILET SYS)		
06:00				BB II AA SS ++ ZX PP HH				EXERCISE	
			18:00	-- XZ NN NN MM PP AA					
07:00					XFER VERIFY FGB/NOD	XFER VERIFY SM	MEAL	MEAL	
			19:00						
					TRANSFER TAG-UP Call MCC-H: SH status	TRANSFER TAG-UP Call MCC-H: SH status			
08:00					MEAL	MEAL		SM EGRESS (AIR SAMP) (RS OPS, SM EGRESS) Steps 7.3-7.4	
			20:00				SM EGRESS (RS OPS, SM EGRESS) Steps 7.7-7.11	FGB EGRESS (AIR SAMP) (RS OPS, FGB EGRESS)	

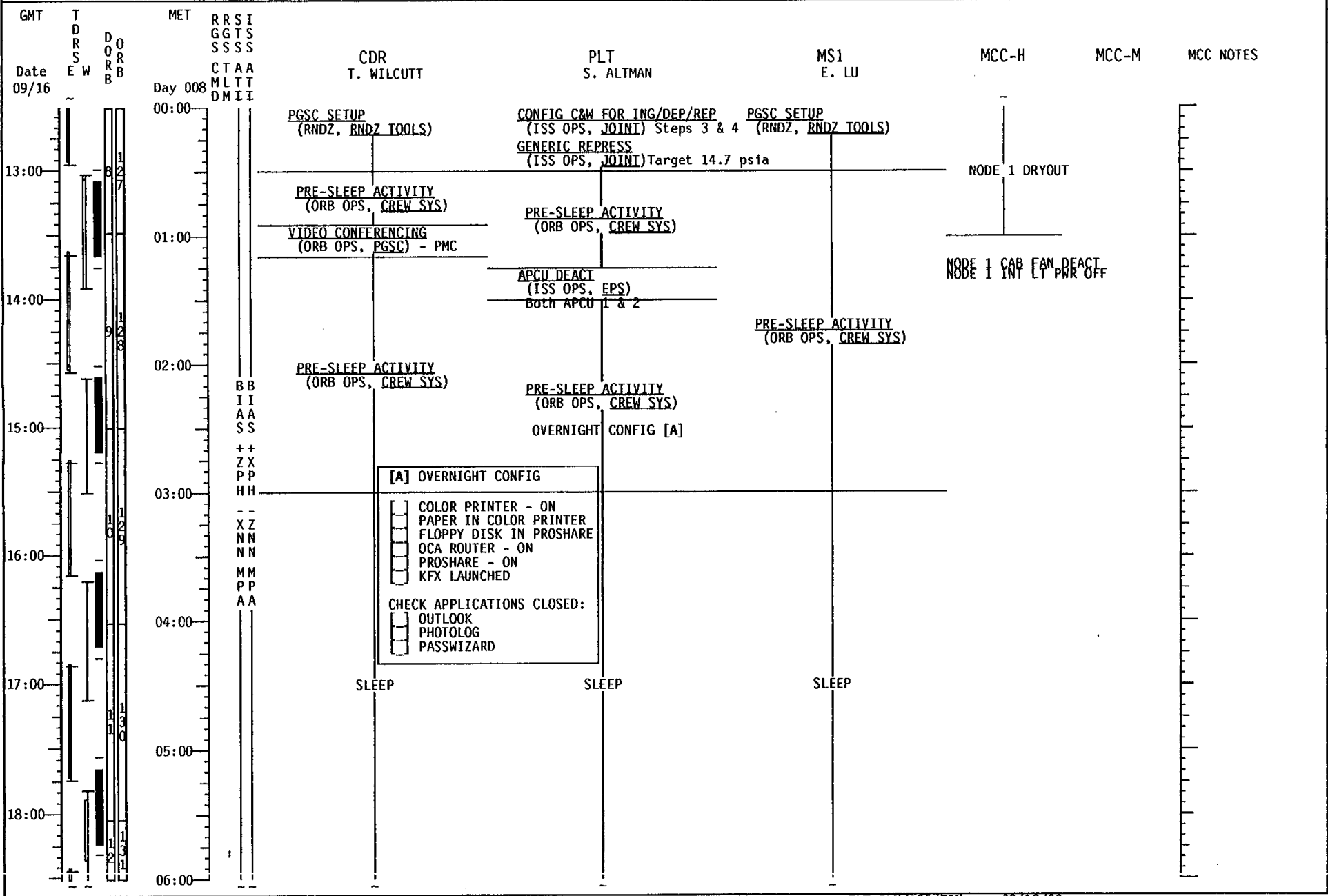
STS-106 (FD09)



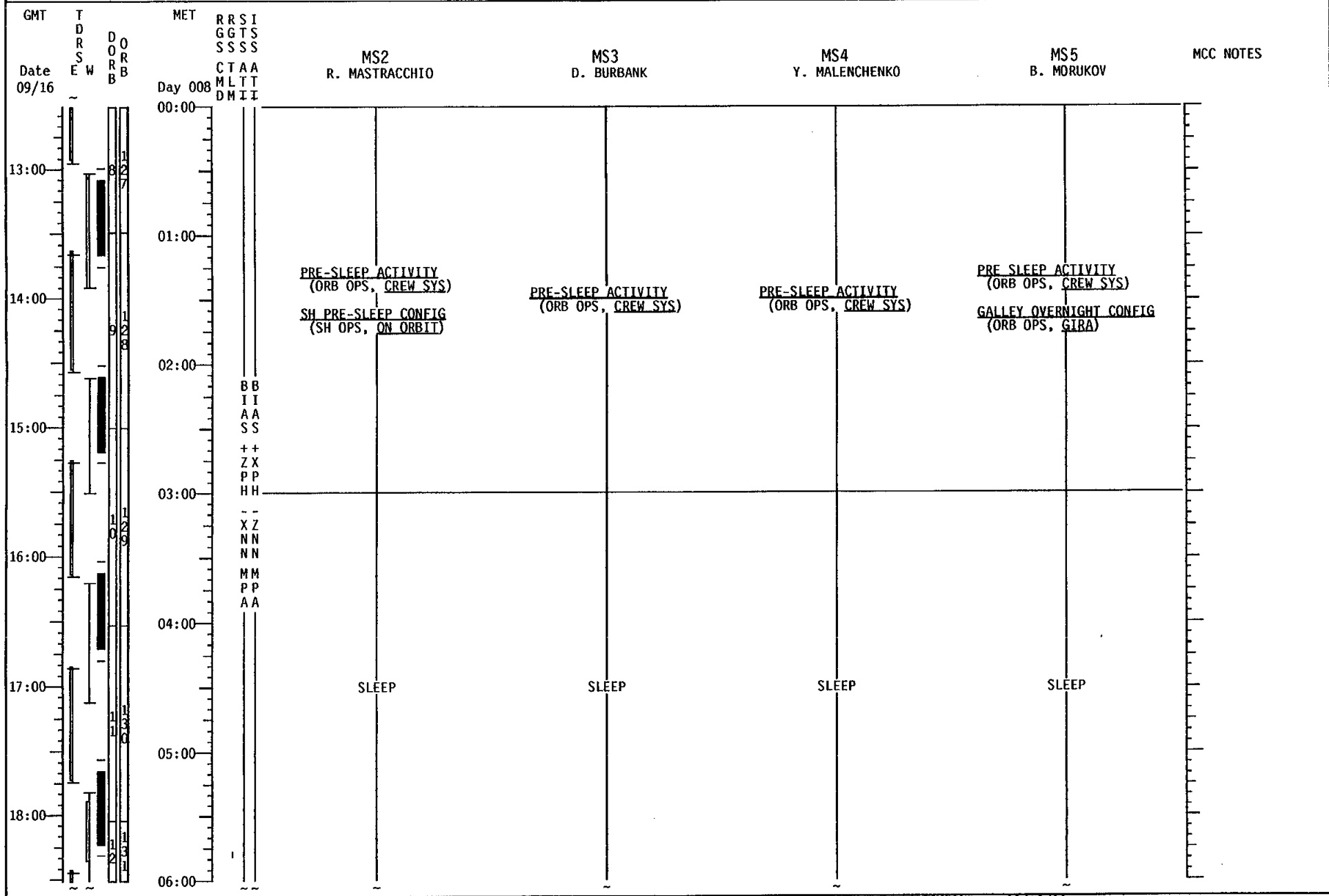
STS-106 (FD09)



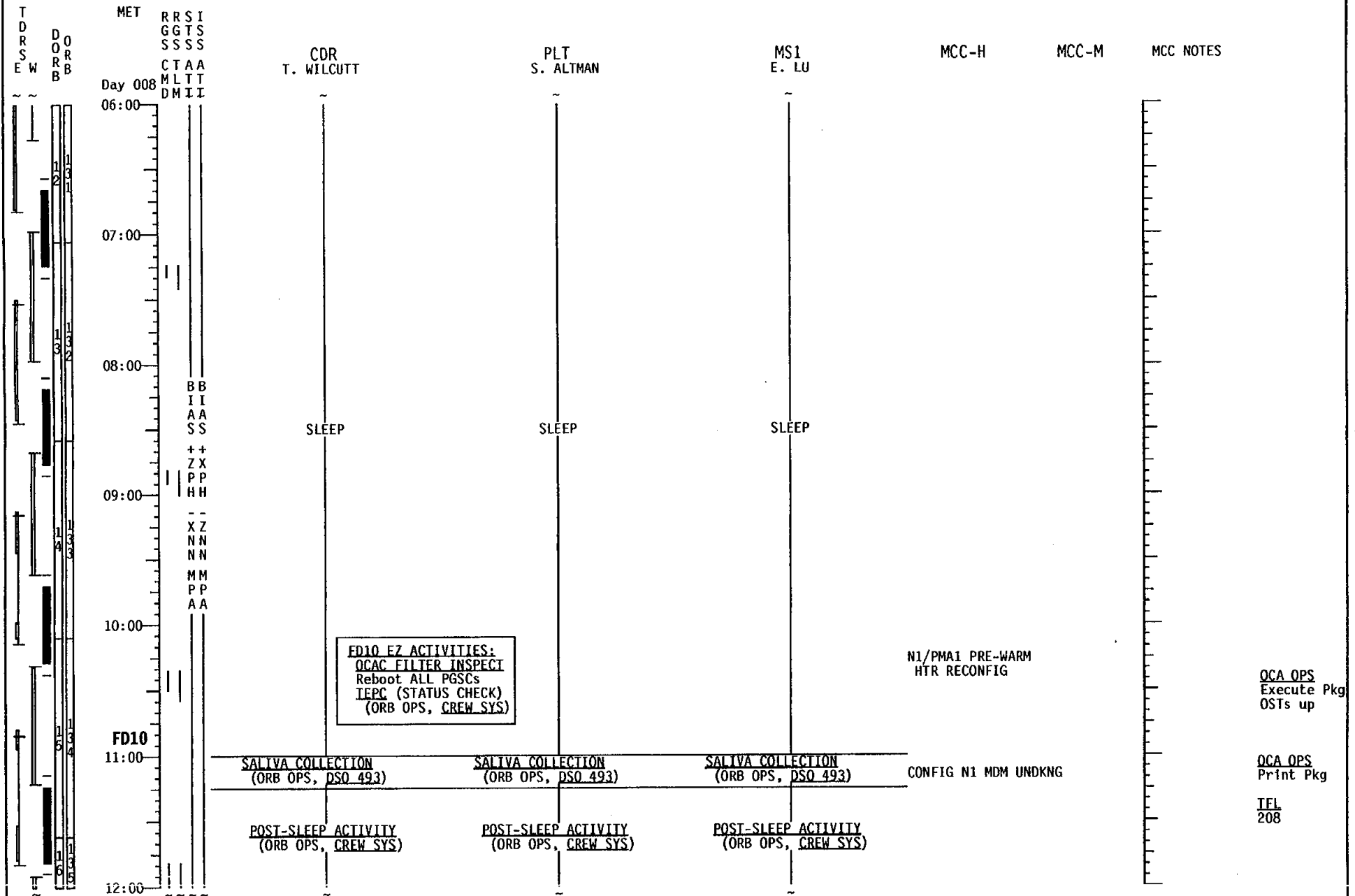
STS-106 (FD09)



STS-106 (FD09)

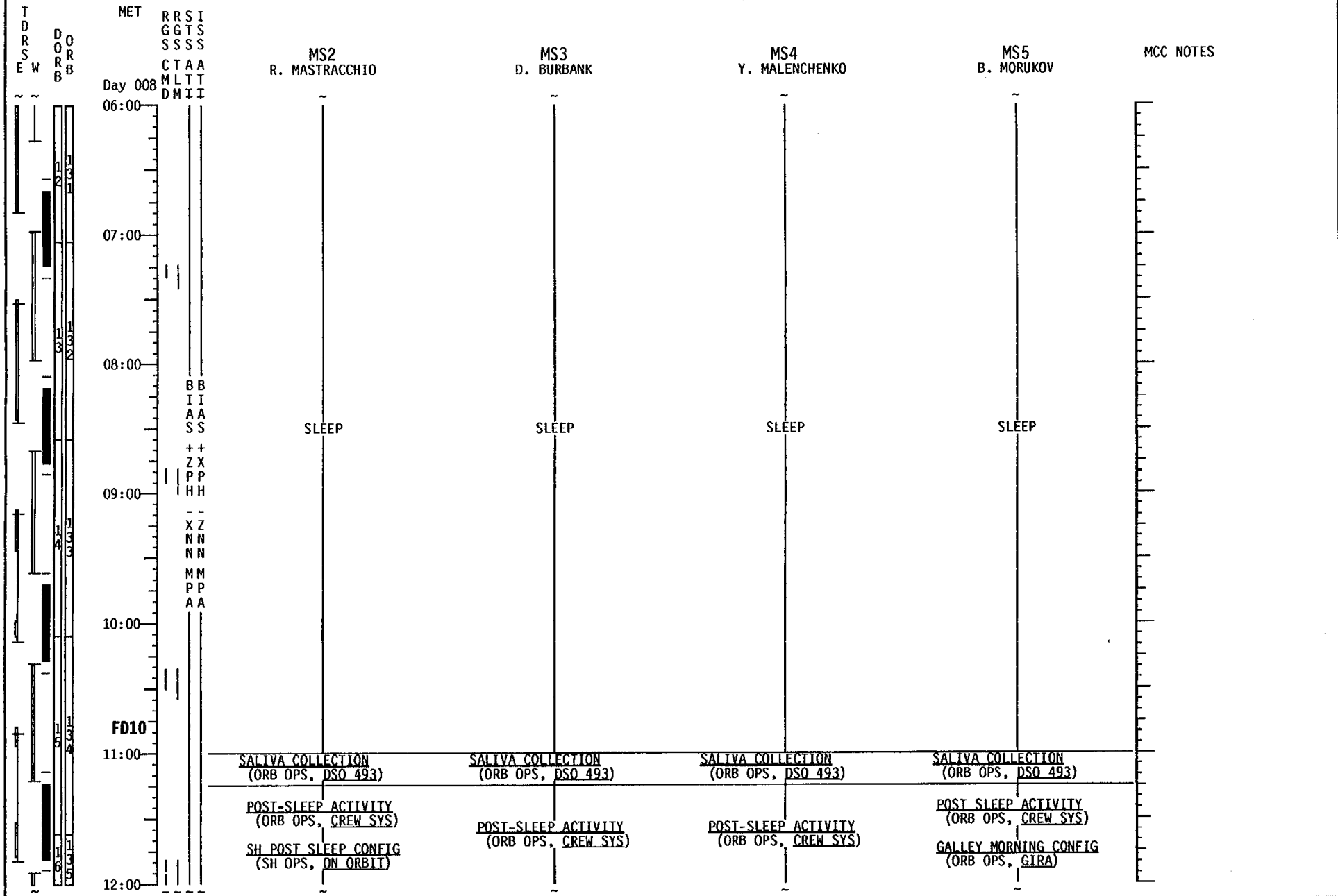


STS-106 (FD10)

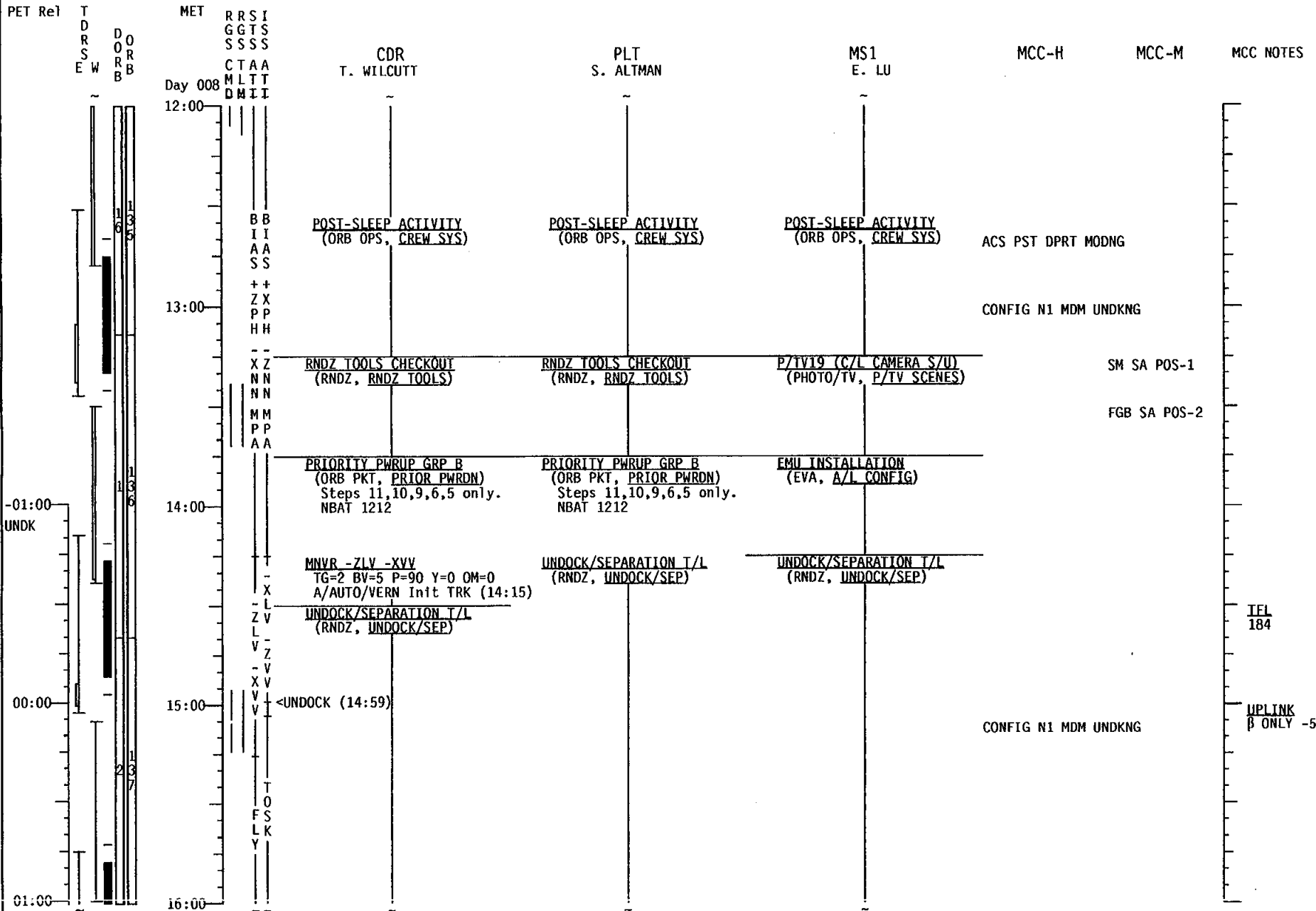


FD10 EZ ACTIVITIES:
 QCAC FILTER INSPECT
 Reboot ALL PGSCs
 IERC (STATUS CHECK)
 (ORB OPS, CREW SYS)

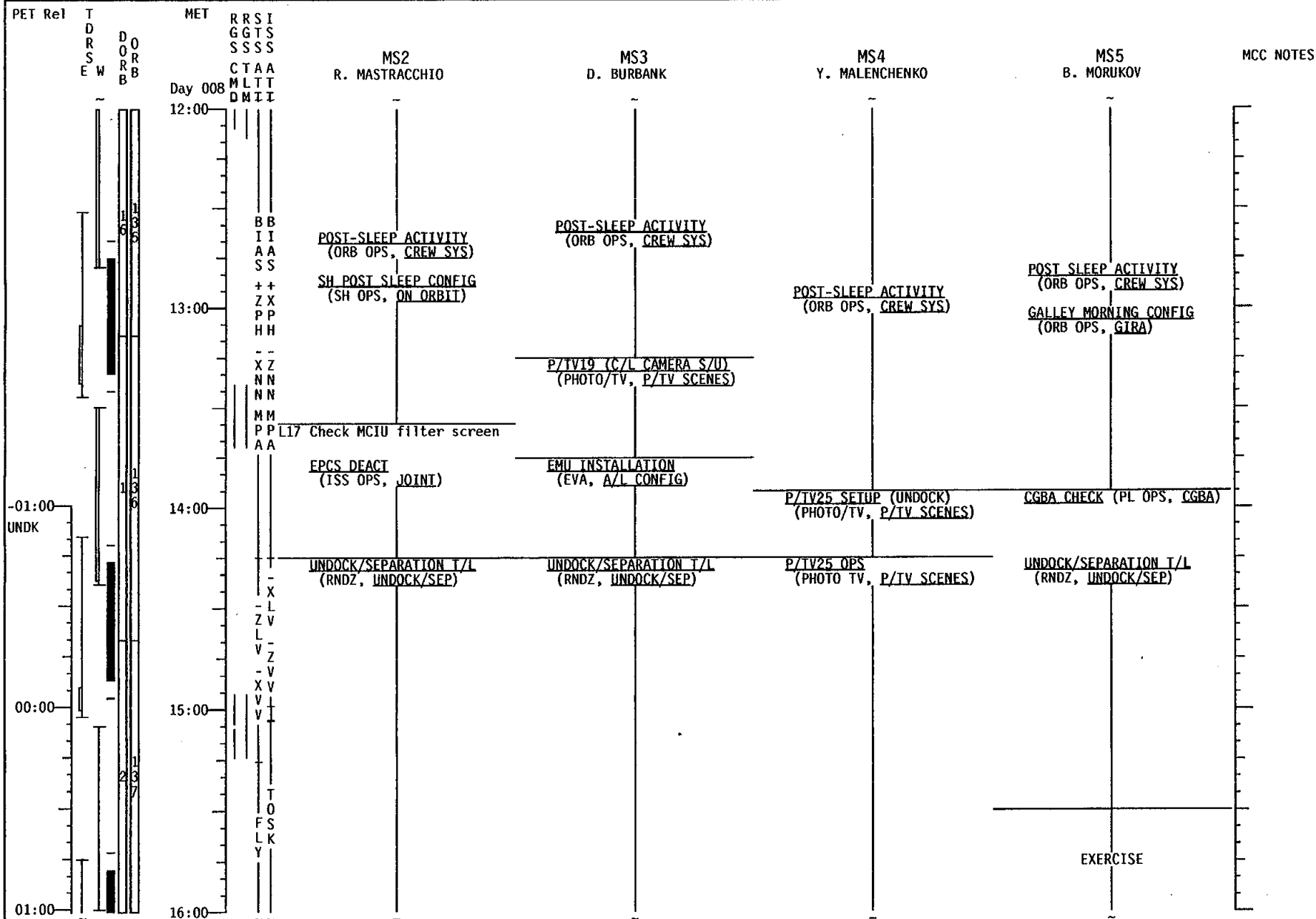
STS-106 (FD10)



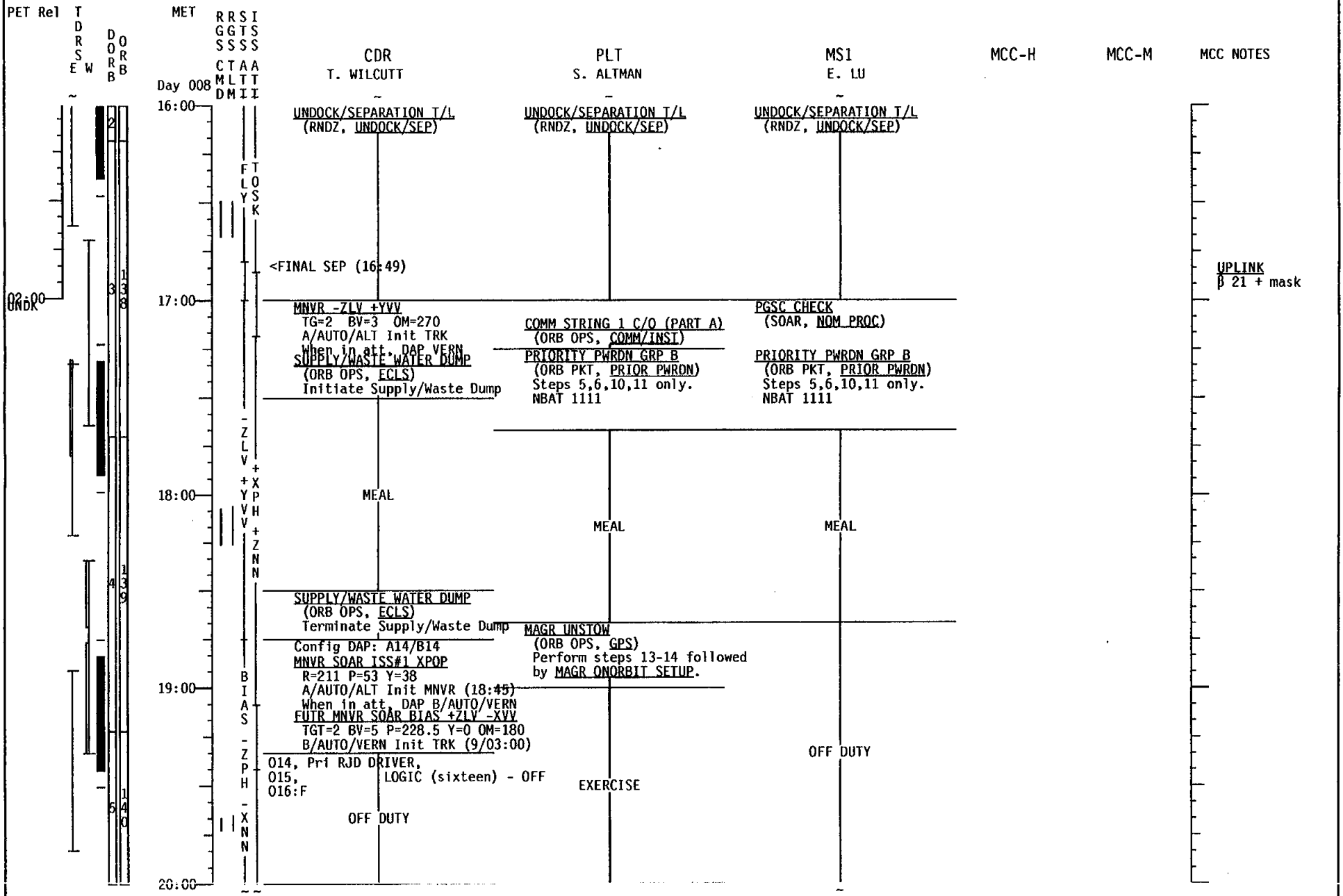
STS-106 (FD10)



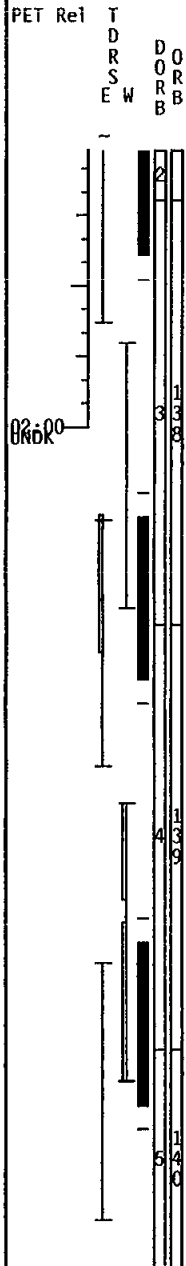
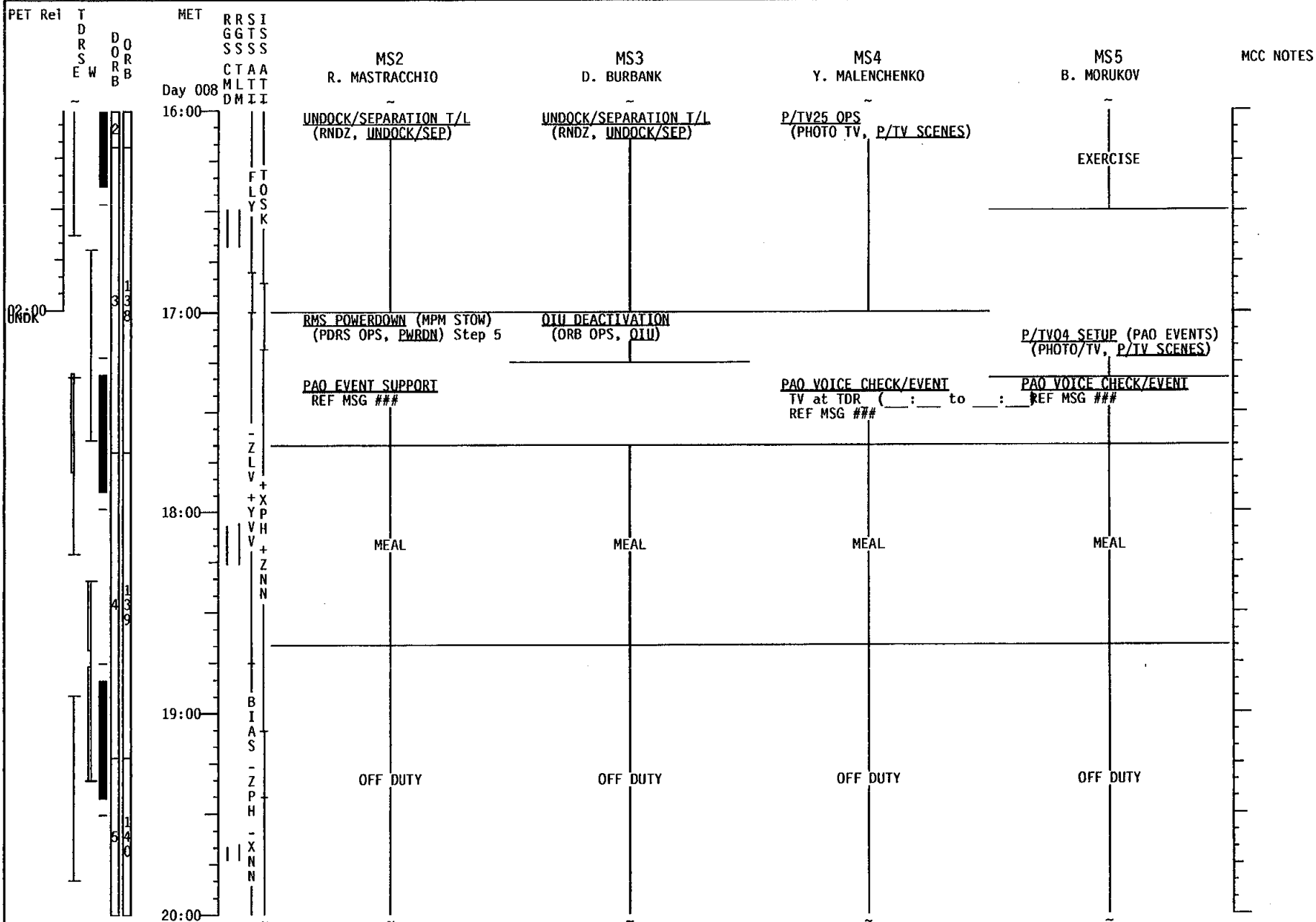
STS-106 (FD10)



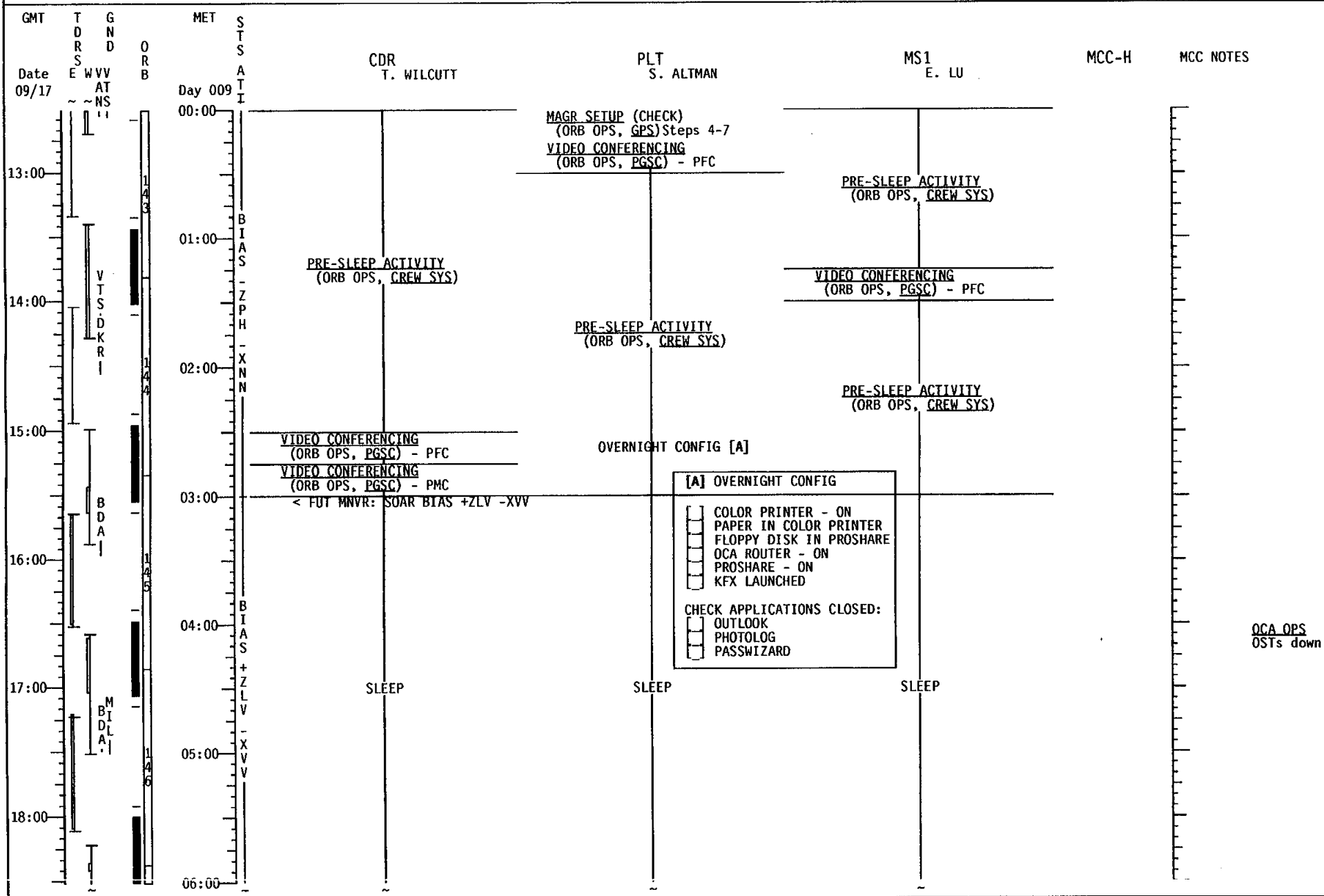
STS-106 (FD10)



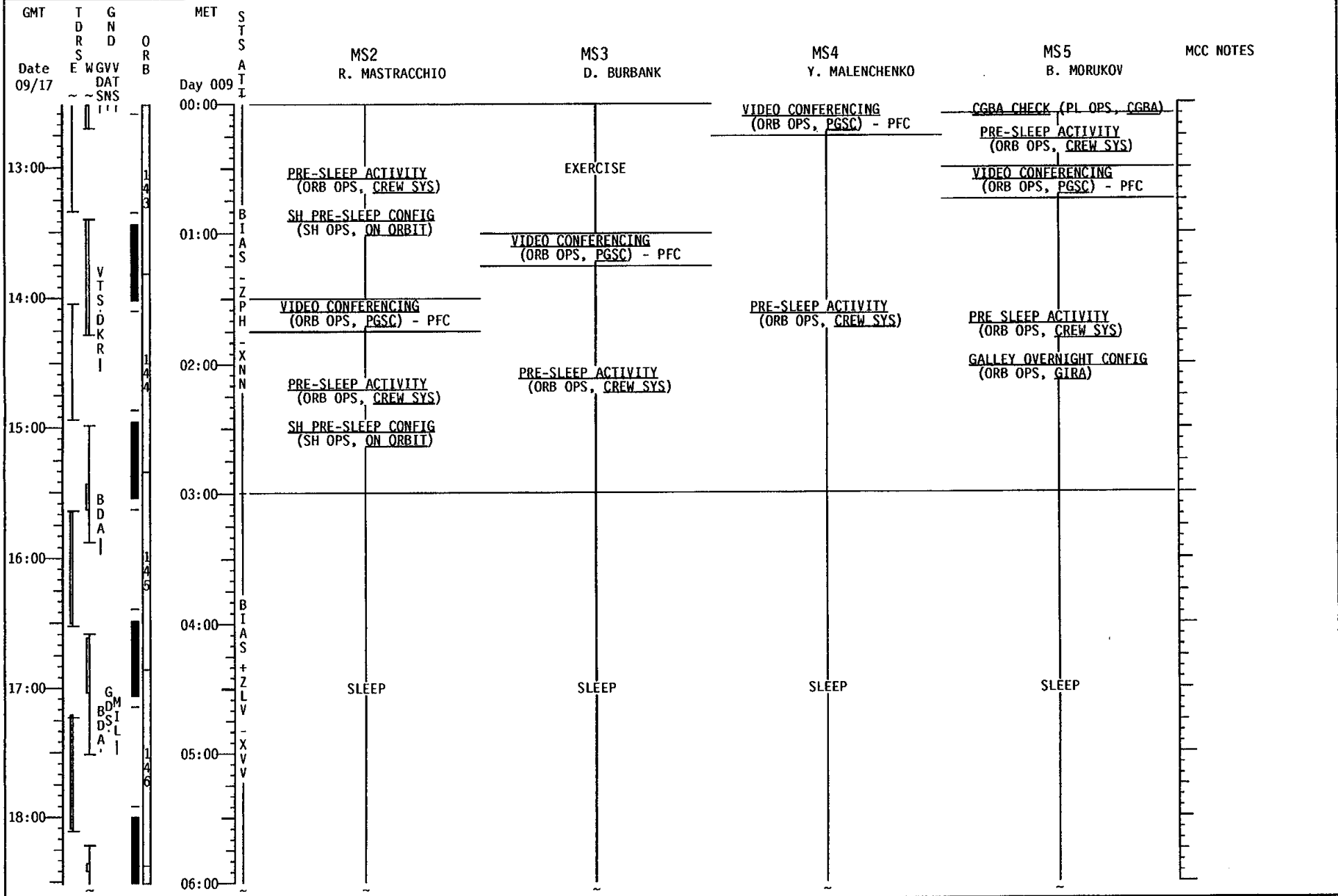
STS-106 (FD10)



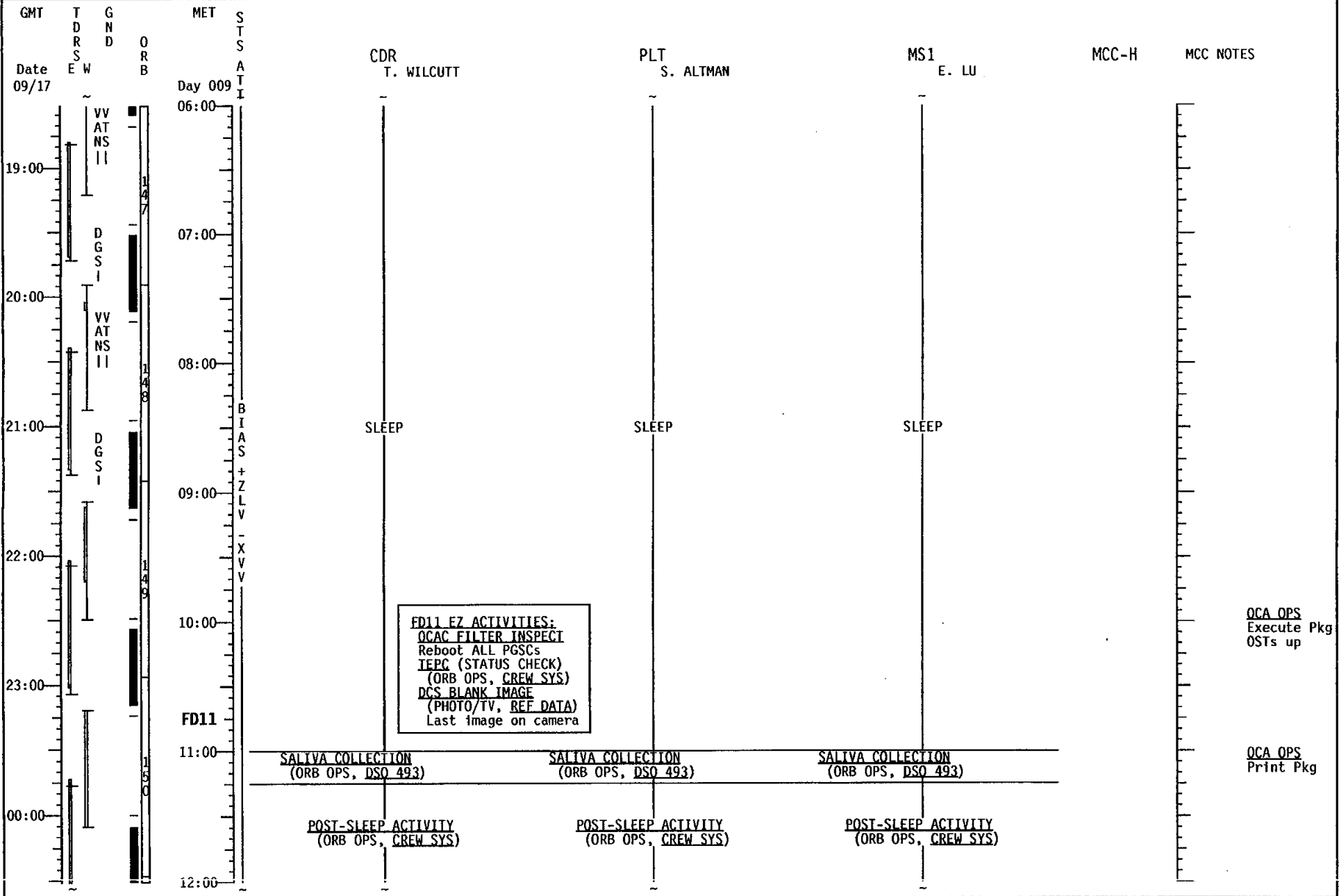
STS-106 (FD10)



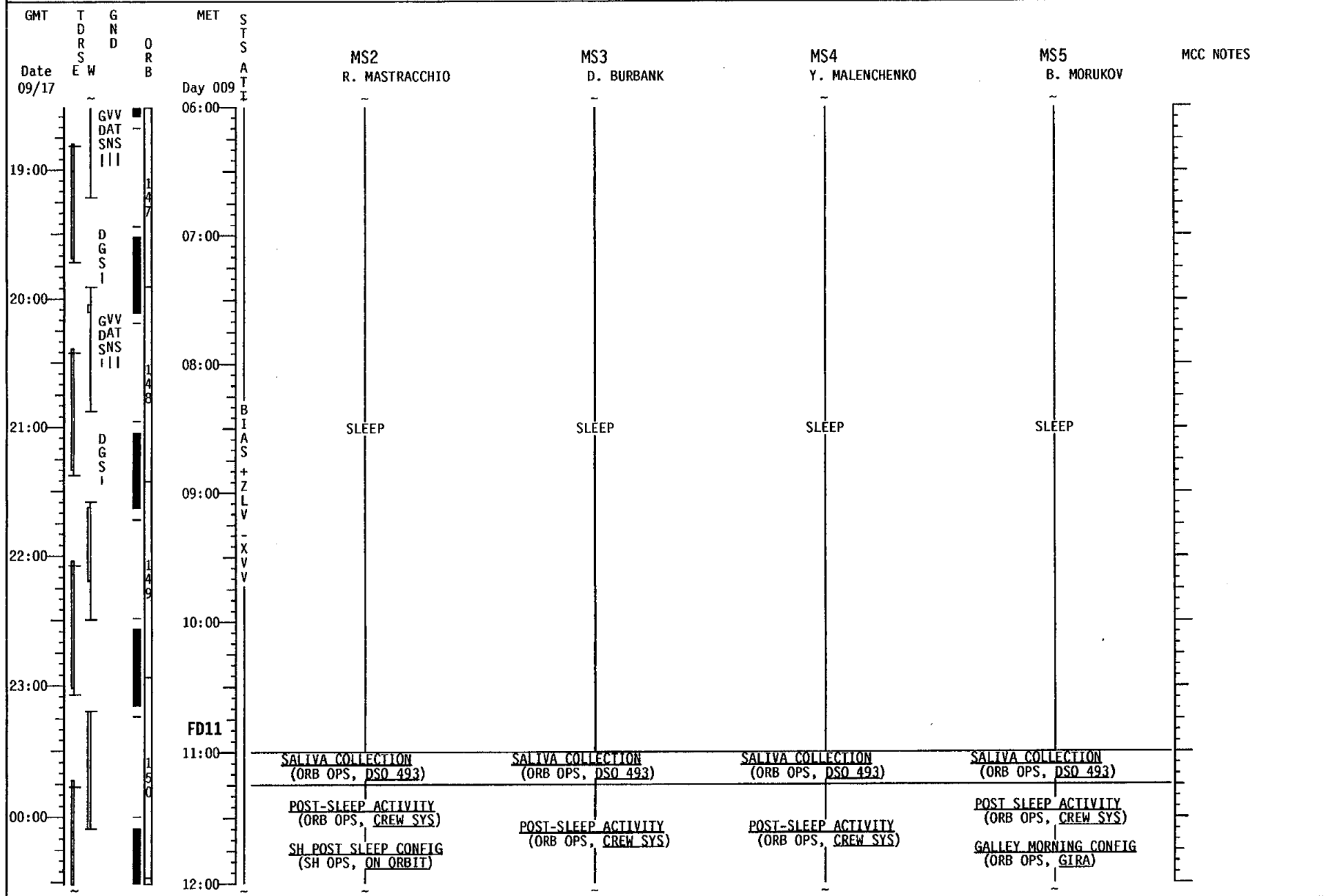
STS-106 (FD10)



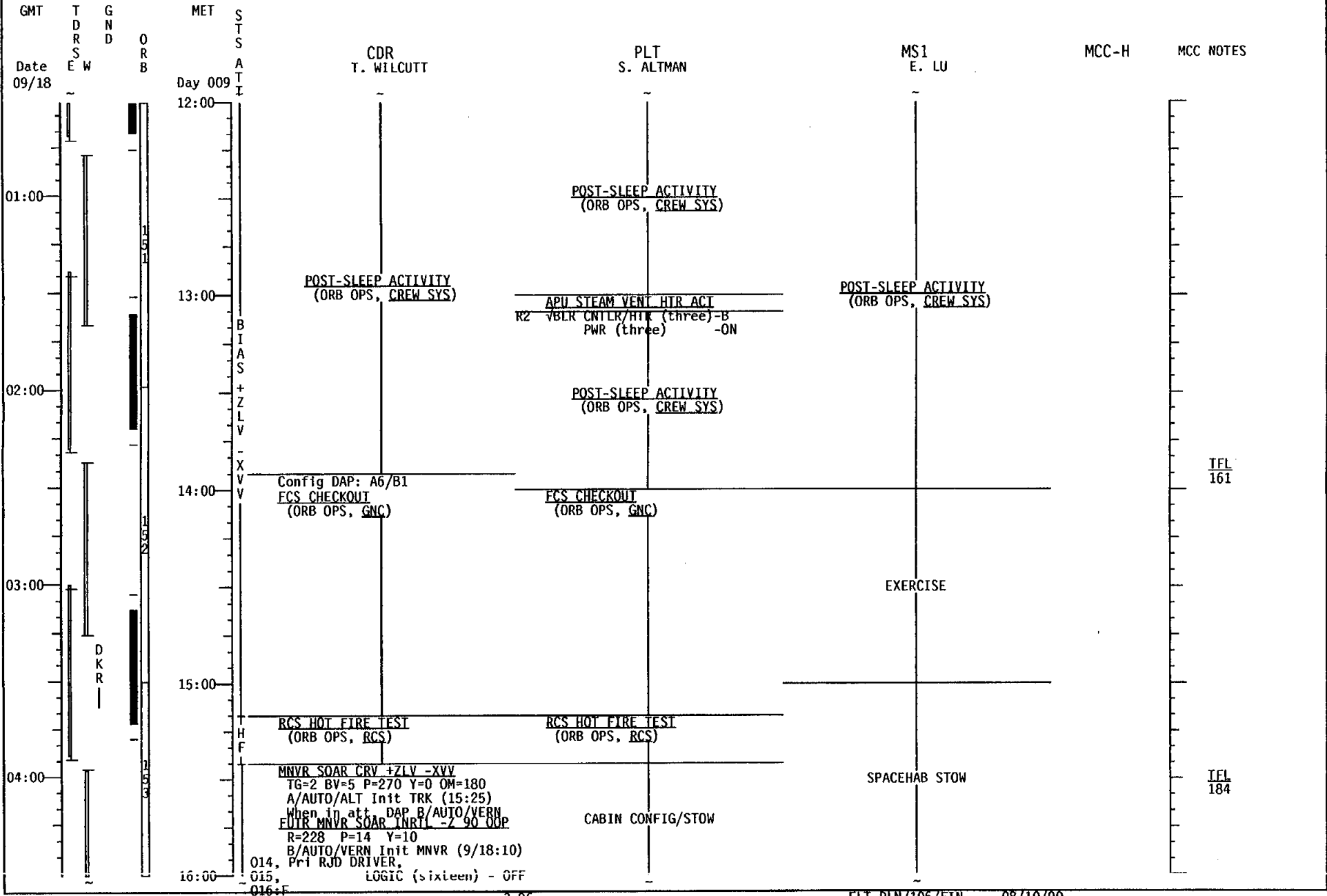
STS-106 (FD11)



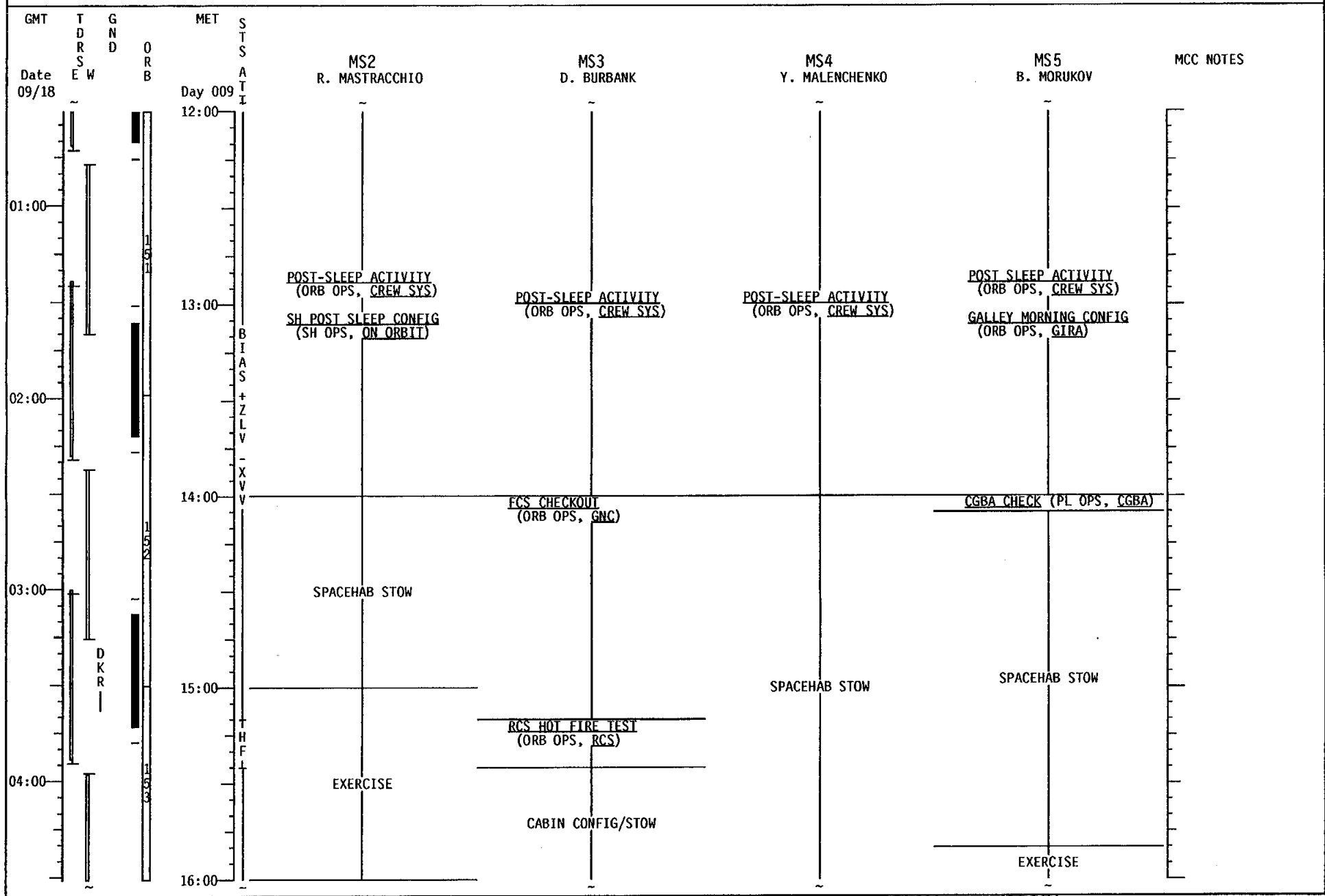
STS-106 (FD11)



STS-106 (FD11)



STS-106 (FD11)



STS-106 (FD11)

GMT	TDRS E W	GND	ORB	MET	STS ATT	CDR T. WILCUTT	PLT S. ALTMAN	MS1 E. LU	MCC-H	MCC NOTES
Date 09/18				Day 009						
05:00				16:00		CABIN CONFIG/STOW	CABIN CONFIG/STOW A13 GPS ENCRYPT - ZEROIZE wait 1 second - NORMAL P/TV08 (SSV) DEACT (PHOTO/TV, P/TV SCENES)	SPACEHAB STOW PGSC CHECK RECORD ST IMAGE (SOAR, NOM PROC) P/TV04 SETUP (PAO EVENTS) (PHOTO/TV, P/TV SCENES)		
06:00				17:00		CREW PHOTO	CREW PHOTO	CREW PHOTO		
07:00				18:00		CREW CONFERENCE	CREW CONFERENCE	CREW CONFERENCE		
						<FUTR MNVR: SOAR INRTL -Z 90 OOP				
				19:00		MEAL	MEAL	MEAL		
						D/O BRIEF	D/O BRIEF	D/O BRIEF		
08:00						LANDING-1 COMM C/O (ORB OPS, COMM/INST)	PILOT W/ RHC SETUP DIAGRAM (ORB OPS, PGSC)	CABIN CONFIG/STOW		
				20:00						

STS-106 (FD11)

GMT	TDRS E W	GND ORB	MET Day 009	STS A T I	MS2 R. MASTRACCHIO	MS3 D. BURBANK	MS4 Y. MALENCHENKO	MS5 B. MORUKOV	MCC NOTES
Date 09/18				16:00 + Z L V - X V V S O A R I N R T L 17:00 18:00 19:00 20:00	SPACEHAB STOW	CABIN CONFIG/STOW	SPACEHAB STOW	EXERCISE	
					CREW PHOTO	CREW PHOTO	CREW PHOTO	CREW PHOTO	
					CREW CONFERENCE	CREW CONFERENCE	CREW CONFERENCE	CREW CONFERENCE	
					MEAL	MEAL	MEAL	MEAL	
					D/O BRIEF	D/O BRIEF	D/O BRIEF	D/O BRIEF	
					COMM STRING 1 C/O (PART B) (ORB OPS, COMM/INST)	CABIN CONFIG/STOW	EXERCISE	CABIN CONFIG/STOW	
					CABIN CONFIG/STOW				

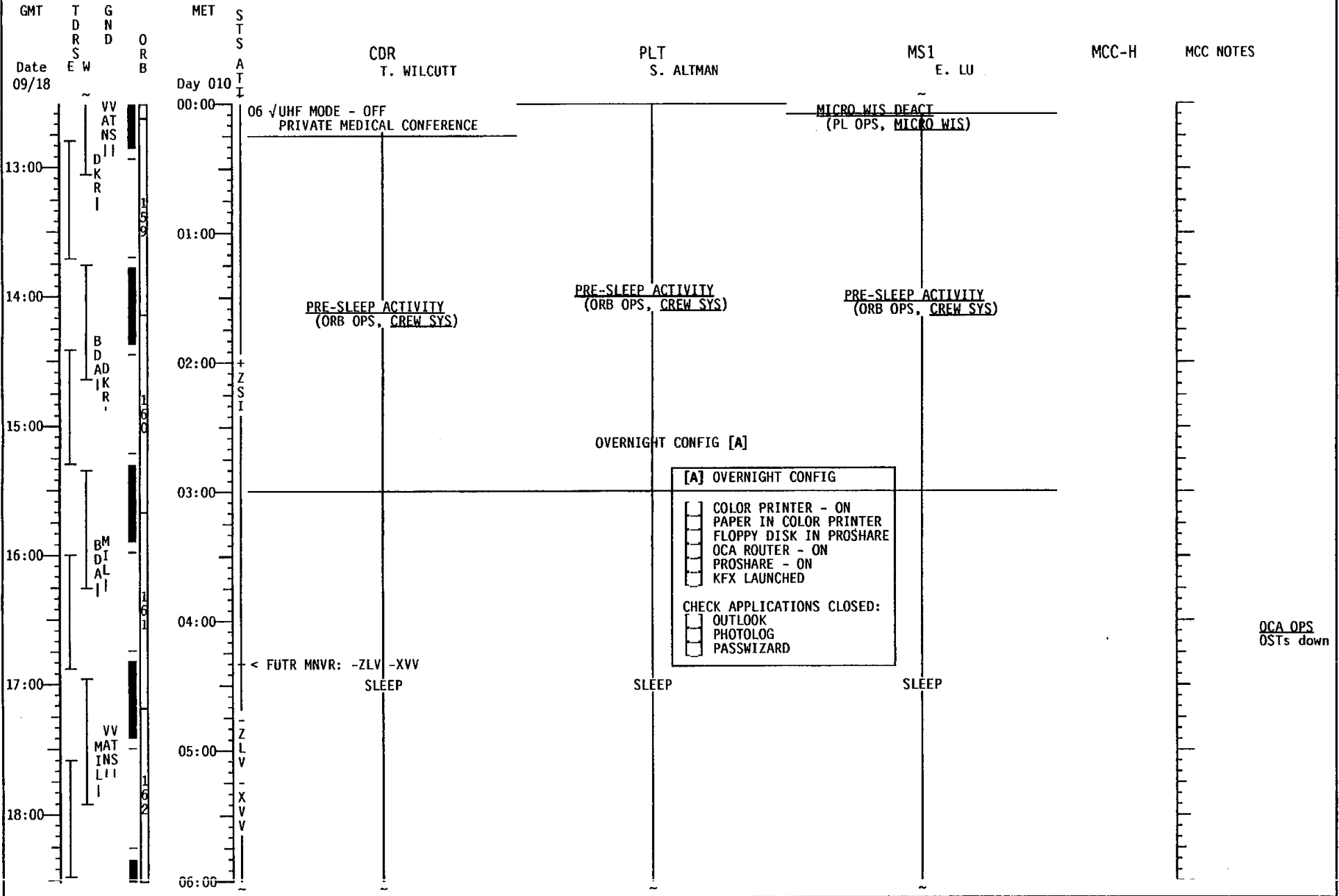
STS-106 (FD11)

GMT	TDRS EW	GND	ORB	MET	STS ATT	PLT	MS1	MCC-H	MCC NOTES
Date 09/18				Day 009	CDR T. WILCUTT	S. ALTMAN	E. LU		
20:00					SOAR PILOT WITH RHC (ORB OPS, PGSC)				
09:00					INR T014, Pri RJD DRIVER, LOGIC (sixteen) - ON L015, L016:F				
					SOAR MNVN SOAR INRTL -Z 45 QOP R=211 P=94 Y=319 A/AUTO/ALT Init MNVR (20:50) When in att, DAP VERN LANDING-1 COMM C/O (backup) (ORB OPS, COMM/INST)	EXERCISE			
10:00					INR EXERCISE				
					SOAR FILTER CLEANING (IFM, SCHED MAINT) Inspect filters and clean as necessary				
22:00					INR CABIN CONFIG/STOW				
11:00					HUD MNVN HUD CAL ATT R=331 P=334 Y=358 A/AUTO/ALT Init MNVR (22:15) When in att, DAP VERN HUD CALIBRATION (ORB OPS, GNC) Star C37 (Alpheratz) AOS: 22:14 LOS: 23:01	DEACTIVATION (SOAR, NOM PROC)		OCA OPS OSTs down	
					SOAR MAGR SETUP (CHECK) (ORB OPS, GPS) Steps 4-7				OCA OPS OSTs up
23:00					INR MNVN (TRK) +ZSI ATT TG=4 BV=5 P=270 Y=0 OM=0 A/AUTO/ALT Init TRK (23:00) When in att, DAP B/AUTO/VERN				
					SOAR CABIN CONFIG/STOW				
12:00					INR ELTR MNVR -ZLV -XV TGT=2 BV=3 OM=0 B/AUTO/VERN Init TRK (10/04:20)				
					SOAR CYCLE ERGOMETER OPS (ORB OPS, CREW SYS) RECONFIG/STOW				
00:00					INR P/TV07 SETUP Entry Video (PHOTO/TV, P/TV SCENES)				
					SOAR MICRO WIS DEACT (PL OPS, MICRO WIS)				

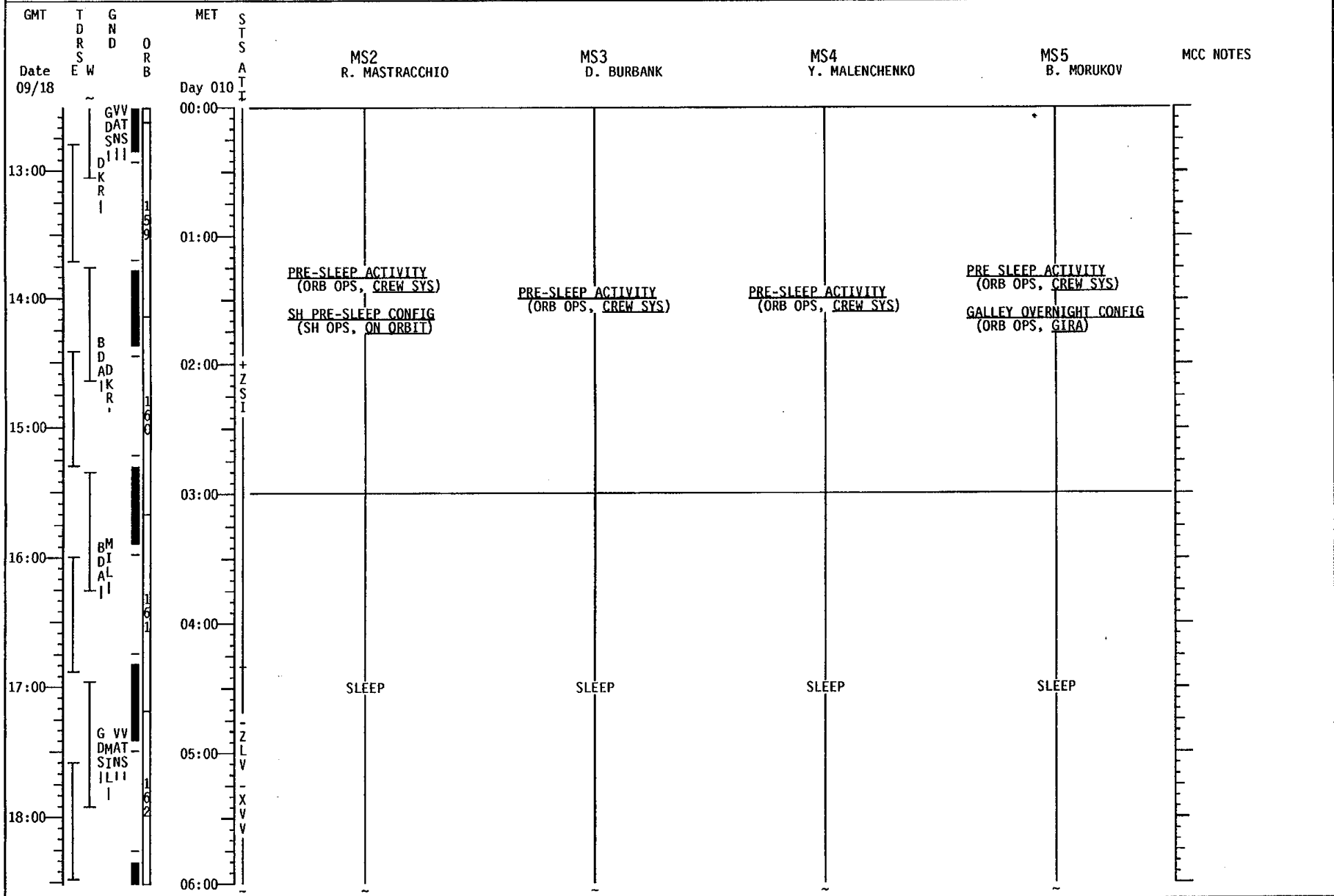
STS-106 (FD11)

GMT	TDRS E W	GND	ORB	MET	STS ATTI SOAR INRTL	MS2 R. MASTRACCHIO	MS3 D. BURBANK	MS4 Y. MALENCHENKO	MS5 B. MORUKOV	MCC NOTES
Date 09/18				Day 009						
20:00						CABIN CONFIG/STOW	CABIN CONFIG/STOW	EXERCISE		
09:00						PILOT WITH RHC (ORB OPS, PGSC)				
							POST EVA ENT PREP (EVA, POST EVA ENT PREP)	POST EVA ENT PREP (EVA, POST EVA ENT PREP)		
10:00						CABIN CONFIG/STOW			CABIN CONFIG/STOW	
							CABIN CONFIG/STOW			
11:00						MODULE TEARDOWN (SH EH, MODULE TEARDOWN)			GALLEY WATER SAMPLE (ORB OPS, GIRA)	
								CABIN CONFIG/STOW	ML86B:A cb MNB SPLY H2O TK B INLET - c1 cb MNC SPLY H2O XOVR - c1	
									R11L SPLY H2O TK A OUTLET - CL (tb-CL) B INLET - OP (tb-OP) XOVR VLV - OP (tb-OP)	
12:00							EXERCISE		CABIN CONFIG/STOW	
						CABIN CONFIG/STOW			CGBA CHECK (PL OPS, CGBA)	
						KU-BD ANT STOW (ORB OPS, COMM/INST)	OCA S-BAND MODEM ACT (ORB OPS, PGSC)		CYCLE ERGOMETER OPS (ORB OPS, CREW SYS) RECONFIG/STOW	
00:00										

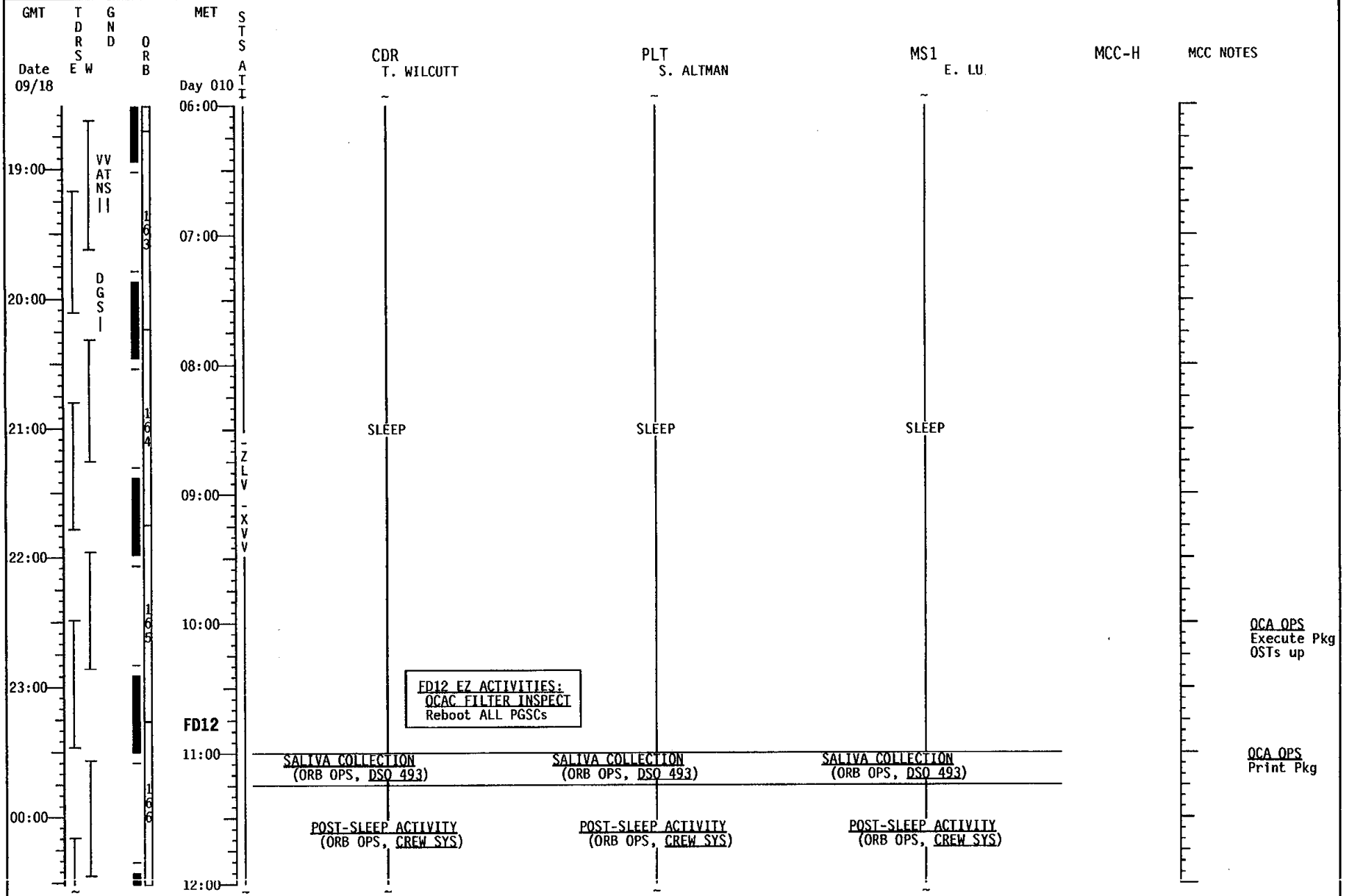
STS-106 (FD11)



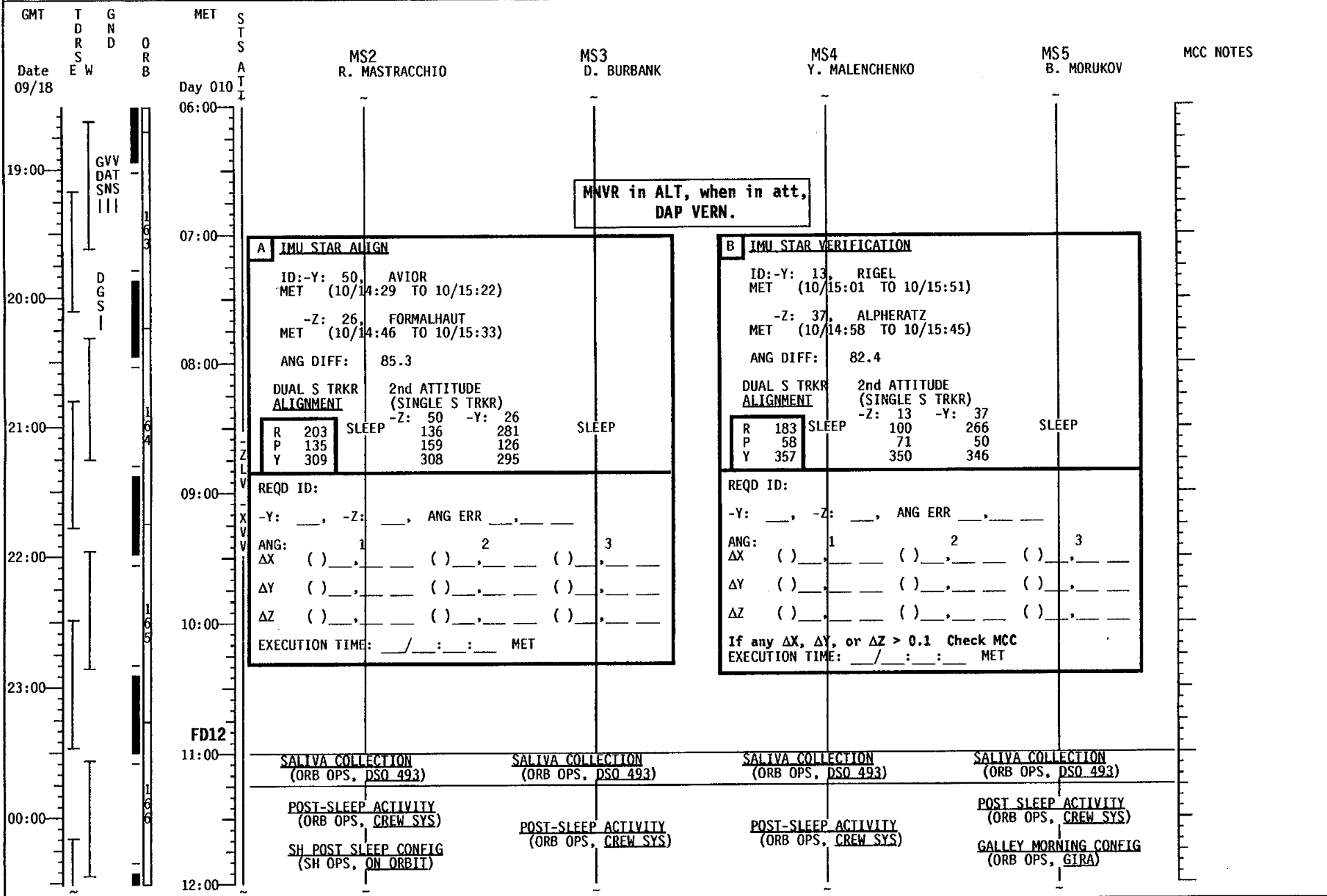
STS-106 (FD11)



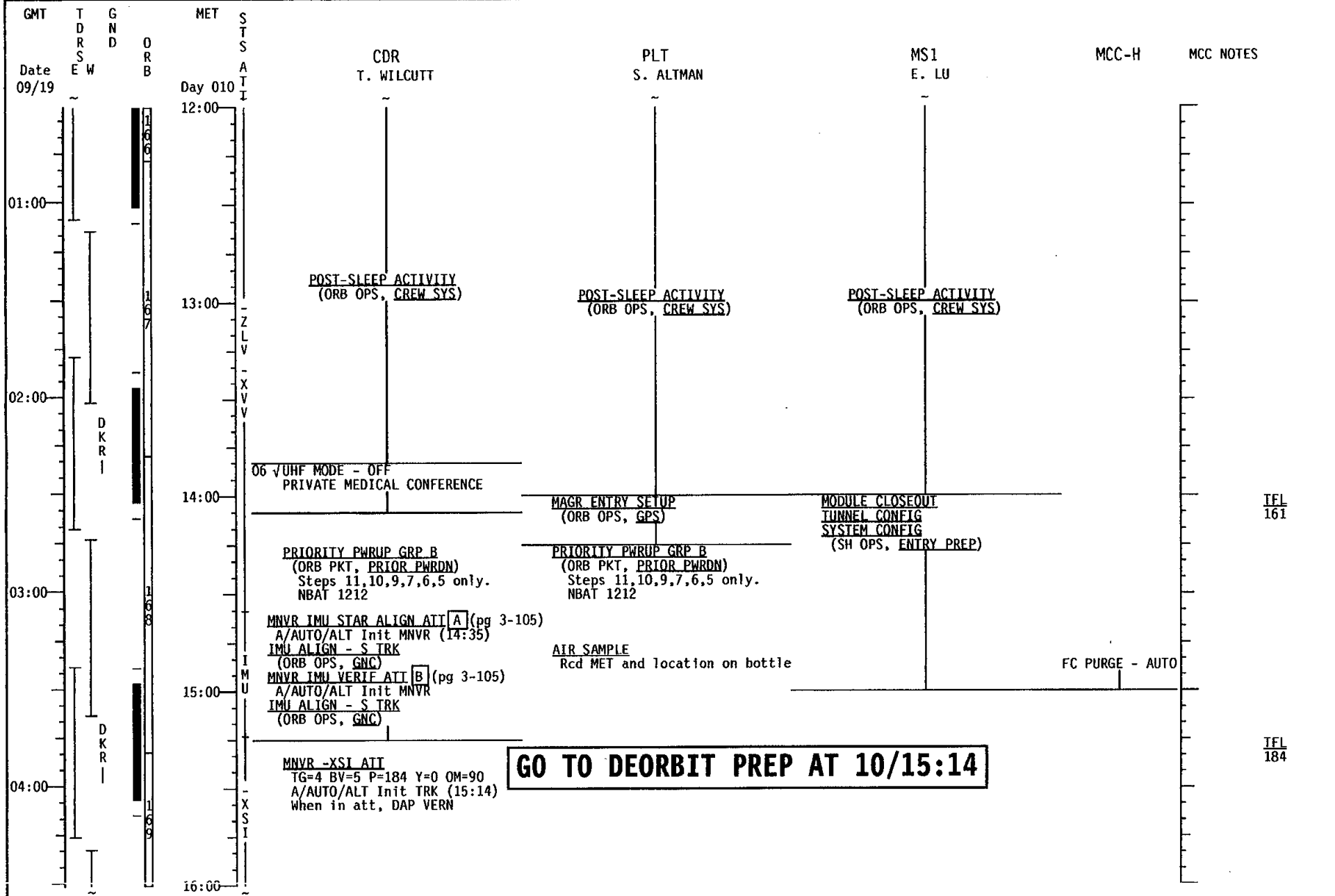
STS-106 (FD12)



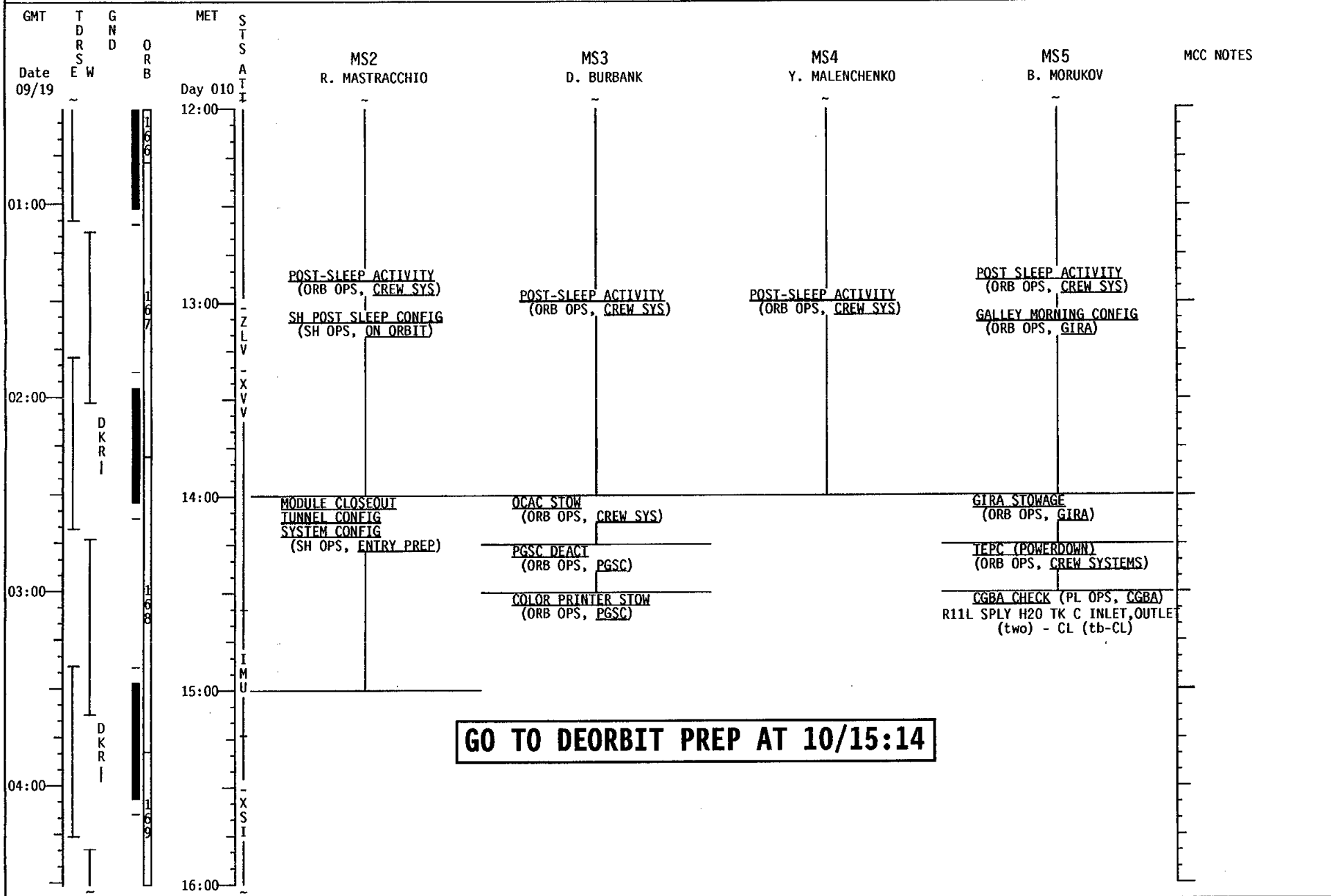
STS-106 (FD12)



STS-106 (FD12)



STS-106 (FD12)



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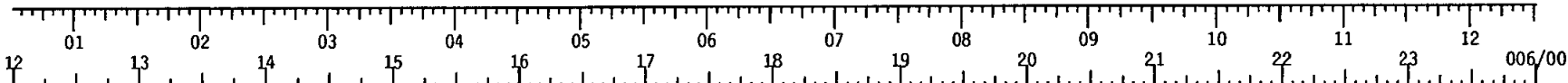
12-DAY MISSION SUMMARY TIMELINE

|

12-DAY MISSION
SUM TIMELINE

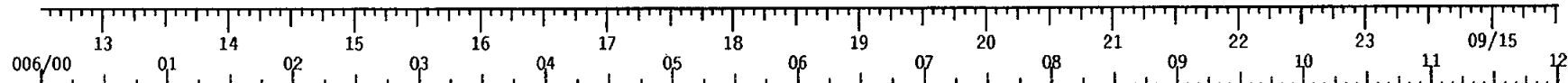
12-DAY MISSION SUM TIMELINE

GMT 09/14/00
BETA ANG = -35.1
MET Day 005



Crew	01	02	03	04	05	06	07	08	09	10	11	12	006/00						
FD07 CDR T. WILCUTT	POST SLEEP		EXERCISE	XFER MPT/HCF	RTRN FGB BATT 6	LOGSTC XFER	CWCS 113 TO 110	LOGSTC XFER	CWC XFER (2)	MEAL	CWC XFER (2)	LOGSTC XFER	XFER TVIS FAN	LOGSTC XFER	PAO SPT	XFER			
PLT S. ALTMAN	POST SLEEP	MPTVA	DBARRILEYF	P/TV 21 S/U	P/TV 21 PAO ISS TOUR	VTR PB S/U	VTR PB	CINCI 5		MEAL		EXERCISE		MH2VOR	WINSITTE	PO4/TV/U	WASR/STME	MPTVA	MAGRCK
MS1 E. LU	POST SLEEP	DBARRILEYF	FGB BATT 6 R&R		MPT 3PY 6 R&R		CT-25 INSTAL	ORLAN #2 RACK RMVL	LOGSTC XFER	MEAL	WIENER POWER PC	LIQUID UNIT INST	EXERCISE	TVIS FAN INST					
MS2 R. MASTRACCHIO	POST SLEEP - SH	DBARRILEYF	XFER FGB BATT 6	LOGSTC XFER	EXERCISE		LOGSTC XFER		MEAL		LOGSTC XFER								XCFHERRCK
MS3 D. BURBANK	POST SLEEP	DBARRILEYF		LOGSTC XFER		PROG U/L	EXERCISE		MEAL	LOGSTC XFER		PROG U/L	LOGSTC XFER	PEAVOENT					XCFHERRCK
MS4 Y. MALENCHENKO	POST SLEEP	DBARRILEYF	FGB BATT 6 R&R		MPT 3PY 6 R&R		CT-25 INSTAL	ORLAN #2 RACK RMVL	RACK TEMP STOW	MEAL	TOILET/HOSE INST	LIQUID UNIT INST	LOGSTC XFER	EXERCISE					
MS5 B. MORUKOV	POST SLEEP - GIRA	DBARRILEYF			PROG U/L				MEAL	PROG U/L	EXERCISE	PROG U/L							XCFHERRCK
MCC-H													BATT. 6 CHARGE						
MCC-M																			
STS ATT													BIAS +ZPH -XNN MPA	BIAS -XLV +YVV					
ISS ATT													BIAS +XPH -ZNN MPA	BIAS -ZLV -YVV					
DAY/NIGHT																			
ORBIT	88	89	90	91	92	93	94	95											
DAILY ORBIT	15	1	2	3	4	5	6	7											
TDRS	E (-47)																		
	W (-171)																		
RGS CMD																			
RGS TLM																			
NOTES													ΦFGB BATT 6 PWRDN	*FGB BATT 6 PWRUP	*FILTER CK	*WCS COMPACT OPS			

GMT 09/14/00
 BETA ANG = -33.5
 MET Day 006



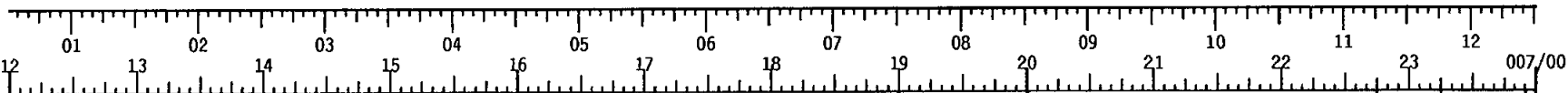
CDR T. WILCUTT	DB AR II LE YF	PRE SLEEP	PMC OCA	PRE SLEEP	SLEEP	DSO 493	POST SLEEP
PLT S. ALTMAN	DB AR II LE YF			PRE SLEEP	SLEEP	DSO 493	POST SLEEP
MS1 E. LU	DB AR II LE YF			PRE SLEEP	SLEEP	DSO 493	POST SLEEP
MS2 R. MASTRACCHIO	DB AR II LE YF	X C F A L L *		PRE SLEEP - SH	SLEEP	DSO 493	POST SLEEP - SH
MS3 D. BURBANK	DB AR II LE YF	X C F A L L *		PRE SLEEP	SLEEP	DSO 493	POST SLEEP
MS4 Y. MALENCHENKO	DB AR II LE YF			PRE SLEEP	SLEEP	DSO 493	POST SLEEP
MS5 B. MORUKOV	DB AR II LE YF	X C F A L L *	CG #	PRE SLEEP - GIRA	SLEEP	DSO 493	POST SLEEP - GIRA

FD08

MCC-H	BATT. & CHARGE														
MCC-M	BIAS +ZPH -XNN MPA														
STS ATT	BIAS +XPH -ZNN MPA														
ISS ATT															
DAY/NIGHT	[Bar chart showing day/night cycles]														
ORBIT	95	96	97	98	99	100	101	102	103						
DAILY ORBIT	7	8	9	10	11	12	13	14	15						
TDRS	[Bar chart showing TDRS events]														
E (-47)															
W (-171)															
RGS CMD															
RGS TLM															

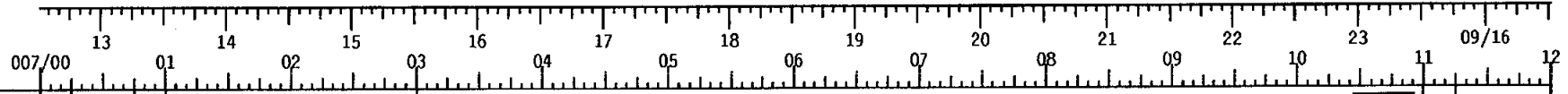
NOTES
 *SH CC
 *SH CC
 #PROG CC

GMT 09/15/00
 BETA ANG = -31.7
 MET Day 006



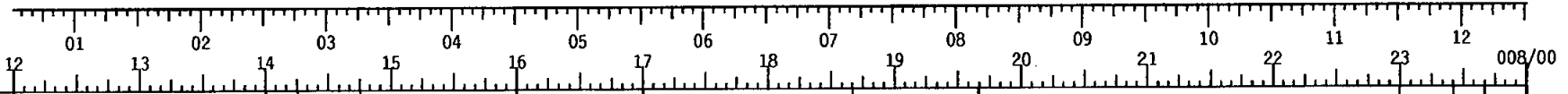
CDR T. WILCUTT	POST SLEEP	DB AR I L E Y F	INSTL FMK	LOGSTC XFER	EXERCISE	LOGSTC XFER	MEAL	LOGSTC XFER	CREW PHOTO	CREW CONF		
PLT S. ALTMAN	POST SLEEP	M N P A R	DB AR I L E Y F		EXERCISE		MEAL	P O / 4 T S / U	CREW PHOTO	CREW CONF		
MS1 E. LU	POST SLEEP	DB AR I L E Y F	EXERCISE	SSU SCREW FIT CK	CHT-50MP A21 INST	CHT-50MP A22 INST	MEAL	CHT-50MP A23 INST	CHT-50MP A24 INST	CREW PHOTO	CREW CONF	
MS2 R. MASTRACCHIO	POST SLEEP - SH	DB AR I L E Y F		LOGSTC XFER	EXERCISE		MEAL	LOGSTC XFER	X C F H E E R C K	CREW PHOTO	CREW CONF	
MS3 D. BURBANK	POST SLEEP	DB AR I L E Y F		LOGSTC XFER			MEAL	EXERCISE	LOGSTC XFER	X C F H E E R C K	CREW PHOTO	CREW CONF
MS4 Y. MALENCHENKO	POST SLEEP	DB AR I L E Y F	IMS FUNC C/O	EXERCISE	CHT-50MP A21 INST	CHT-50MP A22 INST	MEAL	CHT-50MP A23 INST	CHT-50MP A24 INST	CREW PHOTO	CREW CONF	
MS5 B. MORUKOV	POST SLEEP - GIRA	C G B A C C Y	DB AR I L E Y F		LOGSTC XFER		MEAL	LOGSTC XFER	EXERCISE	X C F H E E R C K	CREW PHOTO	CREW CONF
MCC-H												
MCC-M												
STS ATT												
ISS ATT												
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 (-47) W (-171)											
RGS CMD												
RGS TLM												
NOTES												

GMT 09/15/00
 BETA ANG = -29.8
 MET Day 007



Personnel	DB	AR	IL	LE	YF	PRE SLEEP	PMC OCA	SLEEP	DSO 493	POST SLEEP
CDR T. WILCUTT	DB	AR	IL	LE	YF	PRE SLEEP		SLEEP	DSO 493	POST SLEEP
PLT S. ALTMAN	DB	AR	IL	LE	YF	PRE SLEEP		SLEEP	DSO 493	POST SLEEP
MS1 E. LU	DB	AR	IL	LE	YF	PRE SLEEP		SLEEP	DSO 493	POST SLEEP
MS2 R. MASTRACCHIO	DB	AR	IL	LE	YF	PRE SLEEP - SH		SLEEP	DSO 493	POST SLEEP - SH
MS3 D. BURBANK	DB	AR	IL	LE	YF	PRE SLEEP		SLEEP	DSO 493	POST SLEEP
MS4 Y. MALENCHENKO	DB	AR	IL	LE	YF	PRE SLEEP		SLEEP	DSO 493	POST SLEEP
MS5 B. MORUKOV	DB	AR	IL	LE	YF	PRE SLEEP - GIRA		SLEEP	DSO 493	POST SLEEP - GIRA
MCC-H										
MCC-M										
STS ATT								BIAS +ZPH -XNN MPA		
ISS ATT								BIAS +XPH -ZNN MPA		
DAY/NIGHT										
ORBIT	111	112	113	114	115	116	117	118	119	
DAILY ORBIT	7	8	9	10	11	12	13	14	15	
TDRS										
E (-47)										
W (-171)										
RGS CMD										
RGS TLM										
NOTES	*SH CC *SH CC #PROG CC									

GMT 09/16/00
 BETA ANG = -27.9
 MET Day 007



CDR T. WILCUTT	POST SLEEP	DB AR II LE Y F	RTRV FMK	LOGSTC XFER	EXERCISE	LOGSTC XFER	MEAL	LOGSTC XFER	CT WE CR M	PE AV E N T		
PLT S. ALTMAN	POST SLEEP	M N P A R	DB AR II LE Y F	TVIS ASSY PREP	TVIS ASSEMBLY	MEAL	TVIS CAGE ASSEMBLY	TVIS INSTALL	C I W N C I V 7	P O 4 T S / U	M A G R C K	EXERCISE
MS1 E. LU	POST SLEEP	EXERCISE	DB AR II LE Y F	TVIS ASSY PREP	TVIS ASSEMBLY	MEAL	TVIS CAGE ASSEMBLY	TVIS INSTALL	LOGSTC XFER	PROG RES	PE AV E N T	
MS2 R. MASTRACCHIO	POST SLEEP - SH	DB AR II LE Y F	LOGSTC XFER	EXERCISE	LOGSTC XFER	MEAL	M C I U *	LOGSTC XFER	XFER VERIFY FGB/NOD			
MS3 D. BURBANK	POST SLEEP	DB AR II LE Y F	EXERCISE	POST TVIS ASSY PREP	LOGSTC XFER	MEAL	LOGSTC XFER	POST CAGE ASSY	POST TVIS INSTALL	XFER VERIFY SM		
MS4 Y. MALENCHENKO	POST SLEEP	DB AR II LE Y F	H R C E P L	RTRN HCF/ LMPT	LOGSTC XFER	MEAL	LOGSTC XFER	EXERCISE	LOGSTC XFER			
MS5 B. MORUKOV	POST SLEEP - GIRA	G B A L C Y	DB AR II LE Y F	TVIS ASSY PREP	TVIS ASSEMBLY	MEAL	TVIS CAGE ASSEMBLY	TVIS INSTALL	EXERCISE	PROG RES S T O W	X C F E E R C K	
MCC-H												
MCC-M												
SIS ATT												
ISS ATT												
DAY/NIGHT												
ORBIT	119	120	121	122	123	124	125	126	127			
DAILY ORBIT	15	1	2	3	4	5	6	7	8			
TDRS	E (-47) W (-171)											
RGS CMD												
RGS TLM												
NOTES	*FGB ØBΠ - OFF *FILTER CK											

GMT 09/16/00
 BETA ANG = -26.0
 MET Day 008

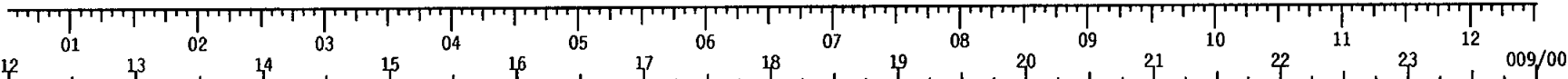
008/00 13 01 14 02 15 03 16 04 17 05 18 06 19 07 20 08 21 09 22 10 23 11 09/17 12

CDR T. WILCUTT	DB AR II LE YF	PRE SLEEP	PMC OCA	PRE SLEEP	SLEEP	FD10	DSO 493	POST SLEEP
PLT S. ALTMAN	DB AR II LE YF	PRE SLEEP		SLEEP	DSO 493	POST SLEEP		
MS1 E. LU	DB AR II LE YF	PRE SLEEP		SLEEP	DSO 493	POST SLEEP		
MS2 R. MASTRACCHIO	DB AR II LE YF	XC FA EL L*	PRE SLEEP - SH	SLEEP	DSO 493	POST SLEEP - SH		
MS3 D. BURBANK	DB AR II LE YF	XC FA EL L*	PRE SLEEP	SLEEP	DSO 493	POST SLEEP		
MS4 Y. MALENCHENKO	DB AR II LE YF	PRE SLEEP		SLEEP	DSO 493	POST SLEEP		
MS5 B. MORUKOV	DB AR II LE YF	XC FA EL L*	PRE SLEEP - GIRA	SLEEP	DSO 493	POST SLEEP - GIRA		

MCC-H																
MCC-M																
STS ATT	BIAS +ZPH -XNN MPA															
ISS ATT	BIAS +XPH -ZNN MPA															
DAY/NIGHT	[Bar chart showing day/night cycles]															
ORBIT	127	128	129	130	131	132	133	134	135							
DAILY ORBIT	8	9	10	11	12	13	14	15	16							
TDRS	[Bar chart showing TDRS events]															
E (-47)	[Bar chart showing E (-47) events]															
W (-171)	[Bar chart showing W (-171) events]															
RGS CMD	[Bar chart showing RGS CMD events]															
RGS TLM	[Bar chart showing RGS TLM events]															

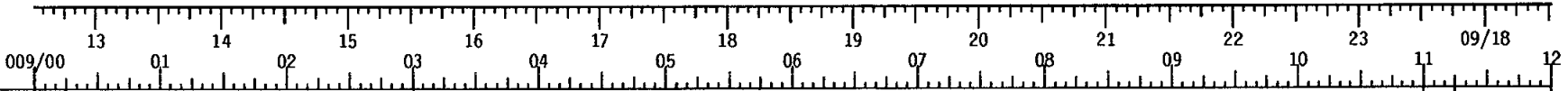
NOTES
 *SH CC
 *SH CC
 #PROG CC

GMT 09/17/00
 BETA ANG = -23.8
 MET Day 008

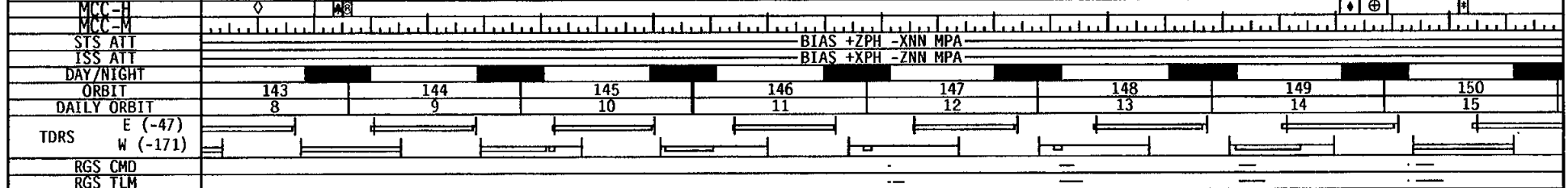


CDR T. WILCUTT	POST SLEEP	DBAR I I L E Y F	RNDZ PGSC S/U	RNDZ TOOLS C/O	EXERCISE	CWC XFER (2)		MEAL	SM EGRESS	FGB EGRESS	PMA1 EGRESS & ISOL	NODE 1 EGRESS & ISOL	PMA2 EGRS	V D E P S R T S			
PLT S. ALTMAN	POST SLEEP	M N P A R	DBAR I I L E Y F	C I W N C I T		P/TV 21 S/U	CT W E C R M	P/TV 21 OPS	C&M CFG 1,2	02 REPRESS	MEAL	P/TV 21 OPS	G D E E N P R	G D E E N P R	G R E E N P R	M A G R C K	EXERCISE
MS1 E. LU	POST SLEEP	DBAR I I L E Y F	RNDZ PGSC S/U	RNDZ TOOLS C/O		EXERCISE		MEAL	S D M U F C T A N	FGB DUCT FRAM RMVL	FGB EGRESS	PMA1 EGRESS & ISOL	NODE 1 EGRESS & ISOL	PMA2 EGRS	V D E P S R T S		
MS2 R. MASTRACCHIO	POST SLEEP - SH	DBAR I I L E Y F				CBM CNTLR INSTALL		MEAL			M C I U *		EXERCISE				
MS3 D. BURBANK	POST SLEEP	DBAR I I L E Y F				CBM CNTLR INSTALL		MEAL				P/TV 21 OPS	EXERCISE				
MS4 Y. MALENCHENKO	POST SLEEP	DBAR I I L E Y F	EXERCISE			PROG EGRESS		MEAL		SM EGRESS	FGB EGRESS	PMA1 EGRESS & ISOL	NODE 1 EGRESS & ISOL	PMA2 EGRS	V D E P S R T S		
MS5 B. MORUKOV	POST SLEEP - GIRA	C G B A C K	DBAR I I L E Y F	PROGRESS STOW		X C F A E L L #		PROG EGRESS		SM AIR SAMP	FGB AIR SAMP				P/TV 21 OPS	C G B A C K	
MCC-H															CBM-C/O-8*		
MCC-M															CBM-C/O-8*		
STS ATT															BIAS +ZPH -XNN MPA		
ISS ATT															BIAS +XPH -ZNN MPA		
DAY/NIGHT																	
ORBIT	135	136	137	138	139	140	141	142									
DAILY ORBIT	16	1	2	3	4	5	6	7	8								
TDRS	E (-47)																
	W (-171)																
RGS CMD																	
RGS TLM																	
NOTES	#PROG CC ΔPROG KBD VEST - CL φPROG KBD VEST - OP •SM BPII - OFF ◎NODE 1 IMV FAN DEACT ▲FGB UB1,2 - OFF &*-Zenith & Nadir *FILTER CK ▼NODE 1 DRYO VFGB KBD GA-PMA1																

GMT 09/17/00
 BETA ANG = -21.9
 MET Day 009



CDR T. WILCUTT	PMC OCA		PRE SLEEP		SLEEP	FD11	DSO 493	POST SLEEP
PLT S. ALTMAN	C&W CFG 3,4	GR EEP R	PRE SLEEP	AD PE CA UC T 2	PRE SLEEP		DSO 493	POST SLEEP
MS1 E. LU	C/L CMR MOUNT	EMU INSTAL	PRE SLEEP		SLEEP		DSO 493	POST SLEEP
MS2 R. MASTRACCHIO			PRE SLEEP - SH		SLEEP		DSO 493	POST SLEEP - SH
MS3 D. BURBANK	EMU INSTAL	C/L CMR MOUNT	PRE SLEEP		SLEEP		DSO 493	POST SLEEP
MS4 Y. MALENCHENKO			PRE SLEEP		SLEEP		DSO 493	POST SLEEP
MS5 B. MORUKOV			PRE SLEEP - GIRA		SLEEP		DSO 493	POST SLEEP - GIRA

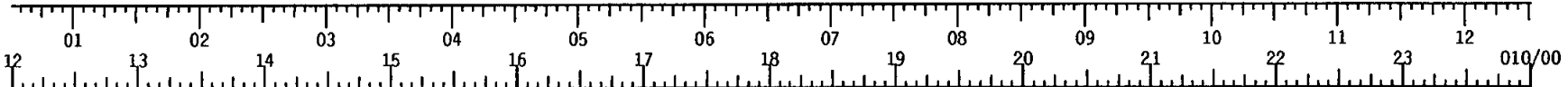


NOTES

○NODE 1 DRYOUT
 ▲NODE 1 CAB FAN DEACT
 ◎N1 INT LIGHT PWR OFF

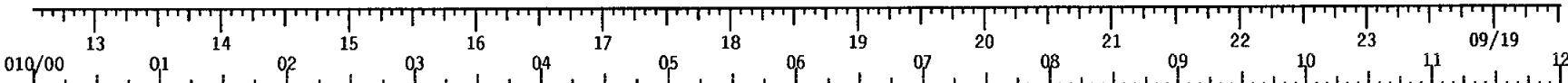
*CONFIG MDM UNDCR
 ◎N1/PMA1 HTR RECONFG
 ◆EARLY COMM POWERUP

GMT 09/18/00
 BETA ANG = -19.8
 MET Day 009



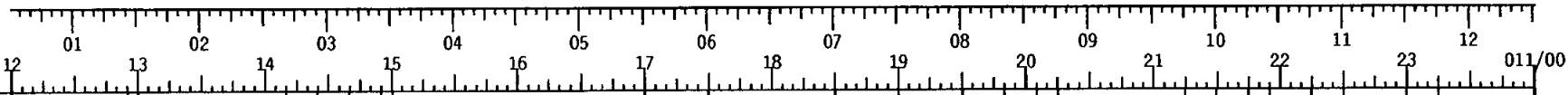
CDR T. WILCUTT	POST SLEEP	GP RW PR UL BP	XX LVV	UNDOCK/SEP OPS	MH N2 VO	SI IN OT	OFF DUTY	ST IE MR OM	MS NO VA TA	SFS UO ARR	OFF DUTY	MEAL	OFF DUTY	EXERCISE	OFF DUTY	PRE SLEEP	
PLT S. ALTMAN	POST SLEEP	GP RW PR UL BP		UNDOCK/SEP OPS	CO MM	GP RW PR BD N	EXERCISE	OFF DUTY			MEAL	OFF DUTY				MA GR CK PFC OCA	PRE SLEEP
MS1 E. LU	POST SLEEP			UNDOCK/SEP OPS		GP RW PR BD N	OFF DUTY				MEAL	OFF DUTY		EXERCISE		PRE SLEEP	
MS2 R. MASTRACCHIO	POST SLEEP - SH	EPCS DEACT		UNDOCK/SEP OPS	MP ST O	PAO SPT	OFF DUTY				MEAL	OFF DUTY		PRE SLEEP		EXERCISE	
MS3 D. BURBANK	POST SLEEP			UNDOCK/SEP OPS	OD IE UA CT		OFF DUTY				MEAL	OFF DUTY		PRE SLEEP		EXERCISE	
MS4 Y. MALENCHENKO	POST SLEEP	P/TV 25 S/U		P/TV 25 OPS		PE AV OE NT	OFF DUTY				MEAL	OFF DUTY	EXERCISE	OFF DUTY	PFC OCA	PRE SLEEP	
MS5 B. MORUKOV	POST SLEEP - GIRA			UNDOCK/SEP OPS	PO TS U	PE AV OE NT	OFF DUTY	EXERCISE			MEAL	OFF DUTY			PRE SLEEP OCA	PFC OCA	PRE SLEEP
MCC-H																	
MCC-M																	
STS ATT																	
ISS ATT																	
DAY/NIGHT																	
ORBIT	151	152	153	154	155	156	157	158									
DAILY ORBIT	1	2	3	4	5	6	7	8									
TDRS	E (-47)																
	W (-171)																
RGS CMD																	
RGS TLM																	
NOTES	ΔACS-PRE-DEPART-MODE ▲CONFIG MDM UNDOCK φCONFIG MDM UNDOCK *STRING 1 C/O (PT A) •SM SA POS-1 √FGB SA POS-2 *FILTER CK ▲UNDOCK @ 9/13:45																

GMT 09/18/00
 BETA ANG = -17.7
 MET Day 010



CDR T. WILCUTT	PRE SLEEP	PFC OCA	PMO OCA	SLEEP	FD12	DSO 493	POST SLEEP
PLT S. ALTMAN	PRE SLEEP			SLEEP		DSO 493	POST SLEEP
MS1 E. LU	PRE SLEEP	P S R L E E P P	PFC OCA	SLEEP		DSO 493	POST SLEEP
MS2 R. MASTRACCHIO	PRE SLEEP - SH	PFC OCA		SLEEP		DSO 493	POST SLEEP - SH
MS3 D. BURBANK	PRE SLEEP	PFC OCA		SLEEP		DSO 493	POST SLEEP
MS4 Y. MALENCHENKO	PRE SLEEP			SLEEP		DSO 493	POST SLEEP
MS5 B. MORUKOV	PRE SLEEP - GIRA			SLEEP		DSO 493	POST SLEEP - GIRA
MCC-H	BIAS -ZPH -XNN				BIAS +ZLV -XVV		
STS ATT	[Bar chart showing day/night cycle]						
ORBIT	159	160	161	162	163	164	165
DAILY ORBIT	9	10	11	12	13	14	15
TDRS	E (-41)						
	W (-171)						
GND	-GDS -DKR -VAN -VTS	-BDA -DKR	-GTS -MIL	-GTS -GDS -MIL -VAN -VTS	-GDS -VAN -VTS	-DGS	
NOTES							

GMT 09/19/00
 BETA ANG = -15.5
 MET Day 010



CDR T. WILCUTT	POST SLEEP	FCS C/O	RCS H/F	MS NOVA F S VATA R R R R	CABIN STOW	D/O BRIEF	MEAL	L-1 COMM CHK	PILOT OPS	MS NOVA R R	EXERCISE	HM UNDIV HUDICAL	+ZSI MNRV	F-UZ TLRV	CABIN STOW	PMC A/G	PRE SLEEP
PLT S. ALTMAN	POST SLEEP	FCS C/O	RCS H/F	CABIN STOW	GZ PE/8 SRIT OV Z	CABIN STOW	D/O BRIEF	MEAL	PILOT SETUP	PO I L S O T	EXERCISE	FILTER CLEANING	SOAR DEACT & STOW	M A G R I C K	CABIN STOW	ERGO STOW	PRE SLEEP
MS1 E. LU	POST SLEEP	EXERCISE	SPACEHAB STOW	S C H O E R C K	CABIN STOW	D/O BRIEF	MEAL	CABIN STOW	POST EVA ENT PREP	CABIN STOW	SHAB MOD TEARDOWN	P O L T V	M W I C S R O	PRE SLEEP			
MS2 R. MASTRACCHIO	POST SLEEP - SH	SPACEHAB STOW	EXERCISE	SPACEHAB STOW	D/O BRIEF	MEAL	C O M M *	CABIN STOW	P O I L S O T	CABIN STOW	SHAB MOD TEARDOWN	C S A T B O I W N	K S U T - O B W D	PRE SLEEP - SH			
MS3 D. BURBANK	POST SLEEP	FCS C/O	RCS H/F	CABIN STOW	D/O BRIEF	MEAL	CABIN STOW	POST EVA ENT PREP	CABIN STOW	EXERCISE	O C A S - B D S /	PRE SLEEP					
MS4 Y. MALENCHENKO	POST SLEEP	SPACEHAB STOW	EXERCISE	CABIN STOW	D/O BRIEF	MEAL	EXERCISE	POST EVA ENT PREP	CABIN STOW	PRE SLEEP							
MS5 B. MORUKOV	POST SLEEP - GIRA	SPACEHAB STOW	EXERCISE	CABIN STOW	D/O BRIEF	MEAL	CABIN STOW	H 2 O *	H2O TANK CFG	CABIN STOW	C G B A C K	ERGO STOW	PRE SLEEP - GIRA				
MCC-H STS ATT	BIAS +ZLV -XVV		+ZLV -XVV		SOAR INRTL		SOAR INRTL		HUD		+ZSI						
DAY/NIGHT ORBIT	166	167	168	169	170	171	172	173	174								
DAILY ORBIT	16	1	2	3	4	5	6	7	8								
TDRS E (-41) W (-171)	-DKR		-GTS	-DKR		-BDA		-BDA	-DGS	-GDS	-VAN	-GDS					
GND	-DKR		-GTS	-DKR		-BDA		-BDA	-DGS	-GDS	-VAN	-GDS					
NOTES	*APU HTR ACT						*STRING 1 C/O (PT B) OL-1 B/U						*GALLEY SAMPLE				

GMT 09/19/00		011/00												09/20	
MET Day 011		13	14	15	16	17	18	19	20	21	22	23	11	12	
CDR	FD12	PRE SLEEP	SLEEP											FD13	POST SLEEP
PLT		PRE SLEEP	SLEEP											DSO 493	POST SLEEP
MS1		PRE SLEEP	SLEEP											DSO 493	POST SLEEP
MS2		PRE SLEEP - SH	SLEEP											DSO 493	POST SLEEP - SH
MS3		PRE SLEEP	SLEEP											DSO 493	POST SLEEP
MS4		PRE SLEEP	SLEEP											DSO 493	POST SLEEP
MS5		PRE SLEEP - GIRA	SLEEP											DSO 493	POST SLEEP - GIRA
MCC-H		+ZSI												-ZLV -XVV	
STS ATT															
DAY/NIGHT															
ORBIT		174	175	176	177	178	179	180	181	182					
DAILY ORBIT		8	9	10	11	12	13	14	15	1					
TDRS		E (-41)													
		W (-171)													
GND		-VAN -DKR	-BDA	-GTS	-BDA	-VAN	-GDS	-DGS	-GDS	-VAN	-DGS				
		-VTS			-MIL		-VTS		-VTS						
NOTES															

GMT 09/20/00 MET Day 011

01 02 03 04 05 06 07 08 09 10 11 12 012/00

CDR	FD13 POST SLEEP	PMC A/G	GP R R B P P	IMU ALIGN /VERIF	-M X N S V I R	DEORBIT PREP	K S C L A N D I N G *	B / U D / O B U R N #	B / U K S C L A N D I N G #
PLT	POST SLEEP		GP R R B P P	ME AN R G T U R R Y		DEORBIT PREP			
MS1	POST SLEEP			SH ENTRY PREP		DEORBIT PREP			
MS2	POST SLEEP - SH			SH ENTRY PREP		DEORBIT PREP			
MS3	POST SLEEP		OS CT A C W	PS GT S O W	SP TR O N T R	DEORBIT PREP			
MS4	POST SLEEP					DEORBIT PREP			
MS5	POST SLEEP - GIRA		GS IT R O A W	TE P C	CH K B A C K O F K G	DEORBIT PREP			
MCC-H	STS ATT								
DAY/NIGHT	-ZLV -XVV								
ORBIT	IMU								
DAILY ORBIT	-XST								
TDRS	COMM								
	ENTRY								
	182	183	184	185	186	187	188	189	190
	1	2	3	4	5	6	7	8	9
	E (-41)								
	W (-171)								
	-GTS -DKR -GTS -BDA -BDA -DGS -MIL -GDS -VAN -VTS -GDS -VAN -VTS -DKR								
GND									
NOTES	*AIR SAMPL ⊕FC PURGE-AUTO *D/O BURN MET: 10/18:00 #B/U D/O BURN MET: 10/19:35 *KSC LANDING MET: 10/19:00 #B/U KSC LANDING MET: 10/20:35								

STS-106 DAP TABLE

STS-106
DAP TABLE

**STS-106
DAP TABLE**

<u>DAP</u>	<u>PURPOSE</u>
A1	- NOMINAL
A2	- PTC
A3	- GG
A4	- (BLANK)
A5	- LOSS OF VERN (NOSE & TAIL)
A6	- FWD PROP SAVINGS
A7	- RNDZ
A8	- TERMINAL PHASE
A9	- PROX OPS/FLYAROUND
A10	- DOCKING
A11	- MATED STACK (MNVR & HOLD) ²
A12	- MATED STACK (MNVR & HOLD) ¹
A13	- FAILED CAPTURE
A14	- SOAR FWD PROP SAVINGS

¹VERN- MNVR and Attitude Hold,
ALT - Attitude Hold Only
²VERN- MNVR and Attitude Hold,
ALT - Attitude Hold Only,
w/FWD PROP savings

<u>DAP</u>	<u>PURPOSE</u>
B1	- NOM OMS & RCS BURNS
B2	- LOSS OF VERN (TAIL ONLY)
B3	- LOSS OF VERN (NOSE & TAIL)
B4	- (BLANK)
B5	- COAS CAL
B7	- RNDZ
B8	- TERMINAL PHASE
B9	- PROX OPS/FLYAROUND
B10	- DOCKING
B11	- REBOOST OF MATED STACK
B12	- MATED STACK (MNVR & HOLD) ¹
B13	- FAILED CAPTURE
B14	- SOAR

<u>UNIV PTG</u>	
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 SHUTTLE ALONE
= 1* SHUTTLE DOCKED PRE-TRANSFER
= 2 SHUTTLE DOCKED POST-TRANSFER
= 3 REBOOST
= 4-9 NOT USED

* CNTL ACC 1 NOMINALLY USED. IF UNNECESSARY
JET FIRINGS DETECTED, CNTL ACC 2 MAY BE USED

STS-106 DAP A1 THROUGH A8 CONFIGURATIONS

	ITEM #	A1	A2	A3	A4	A5	A6	A7	A8
PRI									
ROT RATE	10(50)	0.2000	0.4000	0.2000	0.5000	0.2000	0.2000	0.2000	0.0500
ATT DB	11(51)	5.00	1.00	1.00	3.00	5.00	5.00	2.00	2.00
RATE DB	12(52)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
ROT PLS	13(53)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
COMP	14(54)	.000	.000	.000	.000	.000	.000	.000	.000
P OPTION	15(55)	ALL	ALL	ALL	ALL	ALL	TAIL	ALL	ALL
Y OPTION	16(56)	ALL	ALL	TAIL	ALL	ALL	TAIL	ALL	ALL
TRAN PLS	17(57)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
ALT									
RATE DB	18(58)	0.200	0.200	0.200	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	2	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	0.2000	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		LOSS OF VERN (NOSE & TAIL)	FWD PROP SAVINGS	RNDZ	TERMINAL PHASE

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

STS-106 DAP A9 THROUGH A14 CONFIGURATIONS

	ITEM #	A9	A10	A11	A12	A13	A14
PRI							
ROT RATE	10(50)	0.1300	0.0500	0.1000	0.1000	0.0500	0.2000
ATT DB	11(51)	1.00	0.50	5.00	5.00	1.00	15.00
RATE DB	12(52)	0.10	0.10	0.20	0.20	0.10	0.20
ROT PLS	13(53)	0.10	0.10	0.04	0.04	0.10	0.10
COMP	14(54)	.000	.000	.000	.000	.000	.000
P OPTION	15(55)	TAIL	TAIL	TAIL	TAIL	TAIL	TAIL
Y OPTION	16(56)	TAIL	TAIL	TAIL	TAIL	TAIL	TAIL
TRAN PLS	17(57)	0.05	0.05	0.01	0.01	0.05	0.10
ALT							
RATE DB	18(58)	0.100	0.100	0.070	0.070	0.200	0.070
JET OPT	19(59)	TAIL	TAIL	TAIL	TAIL	ALL	TAIL
# JETS	20(60)	2	2	1	2	2	1
ON TIME	21(61)	0.08	0.08	0.08	0.08	0.08	0.08
DELAY	22(62)	0.00	0.00	12.00	12.00	0.00	0.00
VERN							
ROT RATE	23(63)	0.1300	0.0500	0.1000	0.1000	0.0500	0.0500
ATT DB	24(64)	1.000	0.500	3.000	3.000	1.000	15.000
RATE DB	25(65)	.020	.020	.080	.080	.020	.020
ROT PLS	26(66)	0.050	0.050	0.002	0.002	0.050	0.010
COMP	27(67)	.000	.000	.000	.000	.000	.000
CNTL ACC	28(68)	0	0	2	2	0	0
PURPOSE		PROX OPS (FLY AROUND)	DOCKING	MATED STACK (MNVR & HOLD) ²	MATED STACK (MNVR & HOLD) ¹	FAILED CAPTURE	SOAR FWD PROP SAVINGS

BOLD-ITALIC indicate a change from the I-load

¹VERN - MNVR and Attitude Hold, ALT - Attitude Hold Only

²VERN - MNVR and Attitude Hold, ALT - Attitude Hold Only, w/FWD PROP savings

STS-106 DAP B1 THROUGH B8 CONFIGURATIONS

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

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

STS-106 DAP B9 THROUGH B14 CONFIGURATIONS

	ITEM #	B9	B10	B11	B12	B13	B14
PRI							
ROT RATE	30(50)	0.1300	0.0500	0.0500	0.1000	0.0500	0.5000
ATT DB	31(51)	1.00	0.50	40.00	5.00	1.00	15.00
RATE DB	32(52)	0.10	0.10	5.00	0.20	0.10	0.20
ROT PLS	33(53)	0.04	0.04	0.04	0.04	0.04	0.04
COMP	34(54)	.000	.000	.000	.000	.000	.000
P OPTION	35(55)	TAIL	TAIL	ALL	TAIL	TAIL	ALL
Y OPTION	36(56)	TAIL	TAIL	ALL	TAIL	TAIL	ALL
TRAN PLS	37(57)	0.01	0.01	0.22	0.01	0.01	0.10
ALT							
RATE DB	38(58)	0.100	0.100	0.200	0.070	0.200	0.200
JET OPT	39(59)	TAIL	TAIL	ALL	TAIL	ALL	ALL
# JETS	40(60)	2	2	2	3	2	2
ON TIME	41(61)	0.08	0.08	0.08	0.08	0.08	0.08
DELAY	42(62)	0.00	0.00	12.00	12.00	0.00	0.00
VERN							
ROT RATE	43(63)	0.1300	0.0500	0.1000	0.1000	0.0500	0.2000
ATT DB	44(64)	1.000	0.500	5.000	3.000	1.000	15.000
RATE DB	45(65)	.020	.020	.200	.080	.020	.020
ROT PLS	46(66)	0.020	0.020	0.020	0.002	0.020	0.002
COMP	47(67)	.000	.000	.000	.000	.000	.000
CNTL ACC	48(68)	0	0	3	2	0	0
PURPOSE		PROX OPS (FLY AROUND)	DOCKING	REBOOST OF MATED STACK	MATED STACK (MNVR & HOLD) ¹	FAILED CAPTURE	SOAR

Note: **BOLD-ITALIC** indicate a change from I-load or prior flight DAP configuration

¹VERN - MNVR and Attitude Hold, ALT - Attitude Hold Only

The sections following this divider page will not be included in flight copies.

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ATTITUDE TIMELINE

ATTITUDE
TIMELINE

Attitude Timeline

MET/GMT	MNVR OPTION	DAP	E/S	REF ATT/REMARKS	EVENT
1 000/00:30:00 MET 252/13:00:57 GMT	INRTL R=105.00 MNVR P= 46.00 Y= 18.00	TRN RATE 0.5000 AUTO DB AT 3.50 PRI DB RT 0.20	SUN R 291 P 130	LVLH EQUIV R : 180 P : 344 Y : 0	OMS 2 Heads Down TIG 0/00:44:10 dv= 172.4 fps
2 000/01:12:00 MET 22:15 252/13:42:57 GMT 53:12	TGT=2 BV=3 P= 90.00 Y= 0.00 OM= 90.00	A6 RATE 0.2000 AUTO DB AT 5.00 ALT DB RT 0.070	EARTH R 360 P 90	LVLH R= 0.00 P=180.00 Y=270.00	-ZLV -YVV SOPA and PLBD Opening
3 000/03:20:00 MET 31:01 252/15:50:57 GMT 16:01:58	INRTL R=108.00 MNVR P= 39.00 Y= 16.00	B1 RATE 0.2000 AUTO DB AT 1.000 VERN DB RT 0.020	SUN R 292 P 136	LVLH EQUIV R : 180 P : 344 Y : 354	NC-1 Right OMS Heads Down TIG 0/03:44:36 dv= 58.6 fps
4 000/03:50:00 MET 04:04:29 252/16:20:57 GMT 35:26	TGT=2 BV=3 P= 90.00 Y= 0.00 OM= 0.00 WIA A/AUTO/VERN	A6 RATE 0.2000 AUTO DB AT 5.00 ALT DB RT 0.070	EARTH R 360 P 90	LVLH R= 0.00 P=180.00 Y= 0.00	-ZLV -XVV Crew Sleep
5 000/15:45:00 MET 59:46 253/04:15:57 GMT 30:43	INRTL R=215.00 MNVR P=283.00 Y= 76.00	B1 RATE 0.2000 AUTO DB AT 1.000 VERN DB RT 0.020	SUN R 315 P 79	LVLH EQUIV R : 180 P : 344 Y : 6	NC-2 Left OMS Heads Down TIG 0/16:11:30 dv= 22.0 fps
6 000/16:20:00 MET 34:31 253/04:50:57 GMT 05:05:28	TGT=2 BV=3 P= 90.00 Y= 0.00 OM= 0.00 WIA A/AUTO/VERN	A6 RATE 0.2000 AUTO DB AT 5.00 ALT DB RT 0.070	EARTH R 360 P 90	LVLH R= 0.00 P=180.00 Y= 0.00	-ZLV -XVV
7 000/19:00:00 MET 253/07:30:57 GMT					NPC Placeholder TIG 0/19:22:34 dv= 1.0 fps
8 000/19:30:00 MET 37:30 253/08:00:57 GMT 08:27	TGT=2 BV=3 P= 90.00 Y= 0.00 OM=270.00 WIA A/AUTO/VERN	A6 RATE 0.2000 AUTO DB AT 5.00 ALT DB RT 0.070	EARTH R 0 P 90	LVLH R= 0.00 P=180.00 Y= 90.00	-ZLV +YVV Waste Dump
9 000/22:35:00 MET 46:16 253/11:05:57 GMT 17:13	INRTL R=170.00 MNVR P=129.00 Y=289.00	B1 RATE 0.2000 AUTO DB AT 1.000 VERN DB RT 0.020	SUN R 225 P 92	LVLH EQUIV R : 180 P : 349 Y : 0	NC-3 +X RCS Heads Down TIG 0/23:01:22 dv= 3.0 fps
10 000/23:10:00 MET 13:57 253/11:40:57 GMT 44:54	INRTL R=244.00 MNVR P=211.00 Y=317.00 WIA A/AUTO/VERN	A6 RATE 0.2000 AUTO DB AT 5.00 ALT DB RT 0.070	SUN R 235 P 60	LVLH EQUIV R : 180 P : 90 Y : 0	SOAR CRV INRTL -ZVV at beg 000/23:15:00
11 001/02:40:00 MET 04 253/15:10:57 GMT 11:01 NON-MNVR	TGT=2 BV=5 P=270.00 Y= 0.00 OM=180.00 FUTURE LOAD	A6 RATE 0.0500 AUTO DB AT 1.000 VERN DB RT 0.020	EARTH R 180 P 90	LVLH R=180.00 P=180.00 Y= 0.00	SOAR CRV LVLH +ZLV -XVV 001/02:45:00 Crew Sleep
12 001/11:35:00 MET 254/00:05:57 GMT					NH Placeholder TIG 1/12:00:27 dv= 0.0 fps

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

Attitude Timeline

MET/GMT	MNVR OPTION	DAP	E/S	REF ATT/REMARKS	EVENT
13 001/12:20:00 MET 34:58 254/00:50:57 GMT 01:05:55	INRTL R= 18.00 MNVR P=158.00 Y=292.00	B7 RATE 0.2000 AUTO DB AT 1.000 VERN DB RT 0.020	SUN R 45 P 82	LVLH EQUIV R : 0 P : 16 Y : 0	NC-4 2 Eng. OMS Heads Up TIG 1/12:45:38 dV= 11.1 fps
14 001/12:50:00 MET 54:07 254/01:20:57 GMT 25:04	TGT=2 BV=1 P= 0.00 Y= 0.00 OM= 0.00 WIA A/AUTO/VERN	B7 RATE 0.5000 AUTO DB AT 2.00 ALT DB RT 0.100	EARTH R 256 P 0	LVLH R= 0.00 P=270.00 Y= 0.00	+XLV -ZVV -Z Tgt Track
15 001/13:37:00 MET 53:40 254/02:07:57 GMT 24:37	TGT=2 BV=5 P=350.00 Y= 0.00 OM= 0.00	A7 RATE 0.0100 AUTO DB AT 1.000 VERN DB RT 0.020	EARTH R 180 P 10	LVLH R= 0.00 P=280.00 Y= 0.00	-Z Tgt Track
16 001/14:00:00 MET 02:34 254/02:30:57 GMT 33:31	INRTL R= 31.00 MNVR P=171.00 Y=281.00	A7 RATE 0.2000 AUTO DB AT 2.00 ALT DB RT 0.100	SUN R 45 P 91	LVLH EQUIV R : 0 P : 16 Y : 349	TI Left OMS Heads Up TIG 1/14:17:04 dV= 8.9 fps
17 001/14:19:00 MET 22:38 254/02:49:57 GMT 53:35	TGT=2 BV=5 P=355.00 Y= 0.00 OM= 0.00 WIA A/AUTO/VERN	B7 RATE 0.5000 AUTO DB AT 2.00 ALT DB RT 0.100	EARTH R 180 P 5	LVLH R= 0.00 P=275.00 Y= 0.00	-Z Tgt Track
18 001/14:29:00 MET 35:25 254/02:59:57 GMT 03:06:22	TGT=2 BV=5 P=350.00 Y= 0.00 OM= 0.00	A7 RATE 0.0130 AUTO DB AT 1.000 VERN DB RT 0.020	EARTH R 180 P 10	LVLH R= 0.00 P=280.00 Y= 0.00	-Z Tgt Track
19 001/14:36:00 MET 48:49 254/03:06:57 GMT 19:46	TGT=2 BV=5 P=340.00 Y= 0.00 OM= 0.00	A7 RATE 0.0130 AUTO DB AT 1.000 VERN DB RT 0.020	EARTH R 180 P 20	LVLH R= 0.00 P=290.00 Y= 0.00	-Z Tgt Track
20 001/14:49:00 MET 15:02:20 254/03:19:57 GMT 33:17	TGT=2 BV=5 P=320.00 Y= 0.00 OM= 0.00	A7 RATE 0.0250 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
21 001/15:04:00 MET 30:31 254/03:34:57 GMT 04:01:28	TGT=2 BV=5 P=285.00 Y= 0.00 OM= 0.00	A7 RATE 0.0220 AUTO DB AT 1.000 VERN DB RT 0.020	EARTH R 180 P 75	LVLH R= 0.00 P=345.00 Y= 0.00	-Z Tgt Track
22 001/15:31:00 MET 33:20 254/04:01:57 GMT 04:17	TGT=2 BV=5 P=271.00 Y= 0.00 OM= 0.00	A7 RATE 0.1000 AUTO DB AT 1.000 VERN DB RT 0.020	EARTH R 180 P 89	LVLH R= 0.00 P=359.00 Y= 0.00	-Z Tgt Track 1000ft Breaking Gate LOW Z
23 001/15:36:00 MET 10 254/04:06:57 GMT 07:07	TGT=2 BV=5 P=270.00 Y= 0.00 OM= 0.00	A8 RATE 0.1000 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	+RBAR Arrival
24 001/16:00:00 MET 254/04:30:57 GMT	LVLH FREE ROTATION ROTR ABOUT +Y AXIS RATE=0.130	A9 RATE 0.1300 LVLH DB AT 1.000 VERN DB RT 0.020		LVLH R= 0.00 P= 0.00 Y= 0.00	TORRA Transition from +Rbar to -Rbar

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

Attitude Timeline

MET/GMT	MNVR OPTION	DAP	E/S	REF ATT/REMARKS	EVENT
25					
001/16:23:05 MET		B9 RATE 0.1300 LVLH DB AT 1.000 VERN DB RT 0.020	EARTH R 0 P 90	LVLH R= 0.00 HOLD P=180.05 Y= 0.00	-Rbar Arrival 600ft Braking Gate (0,90,180)YPR
254/04:54:02 GMT					
26					
001/16:28:00 MET					Reestablish Approach
254/04:58:57 GMT					
27					
001/16:49:00 MET					Stationkeeping at 30ft
254/05:19:57 GMT					
28					
001/16:54:00 MET					Reestablish Approach
254/05:24:57 GMT					
29					
001/17:07:00 MET					Free Drift For Docking DOCKING 1/17:09:03
254/05:37:57 GMT					
30					
001/17:15:00 MET	INRTL R=157.00 MNVR P=203.00 Y= 4.00	B12 RATE 0.1000 AUTO DB AT 3.000 VERN DB RT 0.080	SUN R 358 P 19	Shuttle @ Noon (90,90,25)RPY Noon 2/02:26:54 Beta -43.79	BIAS +XPH -ZNN FWD MPA (0,25,180)YPR Docking Day
33:56					
254/05:45:57 GMT					
06:04:53	WIA A/AUTO/VERN				
31					
002/13:45:00 MET	INRTL R=153.00 MNVR P=200.00 Y= 3.00	A12 RATE 0.1000 AUTO DB AT 3.000 VERN DB RT 0.080	SUN R 358 P 17	Shuttle @ Noon (90,90,25)RPY Noon 2/23:46:50 Beta -42.08	BIAS +XPH -ZNN FWD MPA (0,25,180)YPR EVA #1 FD4
52					
255/02:15:57 GMT					
16:49					
32					
002/23:10:00 MET	TGT=2 BV=5 P=280.00 Y= 0.00 OM= 0.00	A12 RATE 0.1000 AUTO DB AT 3.000 VERN DB RT 0.080	EARTH R 180 P 80	LVLH R= 0.00 P=350.00 Y= 0.00	Bias +ZLV +XVV Reboost 1 (180,280,0)YPR
25:20					
255/11:40:57 GMT					
56:17					
33					
003/00:40:00 MET	INRTL R=153.00 MNVR P=200.00 Y= 3.00	A12 RATE 0.1000 AUTO DB AT 3.000 VERN DB RT 0.080	SUN R 360 P 17	Shuttle @ Noon (90,90,25)RPY Noon 2/23:46:50 Beta -42.08	BIAS +XPH -ZNN FWD MPA (0,25,180)YPR FD4 Crew Sleep
55:33					
255/13:10:57 GMT					
26:30					
34					
003/13:29:32 MET	TGT=2 BV=5 P=155.00 Y= 0.00 OM=270.00	A12 RATE 0.1000 AUTO DB AT 3.000 VERN DB RT 0.080	EARTH R 360 P 155	LVLH R= 90.00 P= 90.00 Y= 25.00	BIAS -XLV +YVV Waste Dump at NOON
30:09					
256/02:00:29 GMT					
01:06					
NON-MNVR					
35					
003/15:00:57 MET	INRTL R=148.00 MNVR P=197.00 Y= 2.00	A12 RATE 0.1000 AUTO DB AT 3.000 VERN DB RT 0.080	SUN R 359 P 15	Shuttle @ Noon (90,90,25)RPY Noon 4/00:09:23 Beta -39.59	BIAS +XPH -ZNN FWD MPA (0,25,180)YPR FD5 Crew Day
01:17					
256/03:31:54 GMT					
32:14					
NON-MNVR					
36					
004/13:45:00 MET	INRTL R=144.00 MNVR P=201.00 Y=356.00	A12 RATE 0.1000 AUTO DB AT 3.000 VERN DB RT 0.080	SUN R 358 P 21	Shuttle @ Noon (90,90,15)RPY Noon 5/00:31:42 Beta -36.63	BIAS +XPH -ZNN MPA / Thermal (0,15,180)YPR FD6 Crew Day
46:23					
257/02:15:57 GMT					
17:20					

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

Attitude Timeline

MET/GMT	MNVR OPTION	DAP	E/S	REF ATT/REMARKS	EVENT
37					
005/13:45:00 MET 41	INRTL R=141.00 MNVR P=198.00 Y=356.00	A12 RATE 0.1000 AUTO DB AT 3.000 VERN DB RT 0.080	SUN R 358 P 19	Shuttle @ Noon (90,90,15)RPY Noon 5/23:22:25 Beta -33.49	BIAS +XPH -ZNN MPA / Thermal (0,15,180)YPR FD7 Crew Day
258/02:15:57 GMT 16:38					
38					
005/21:51:02 MET 06	TGT=2 BV=5 P=165.00 Y= 0.00 OM=270.00	A12 RATE 0.1000 AUTO DB AT 3.000 VERN DB RT 0.080	EARTH R 0 P 165	LVLH R= 90.00 P= 90.00 Y= 15.00	BIAS -XLV +YVV Simo Dump at NOON
258/10:21:59 GMT 22:03					
NON-MNVR					
39					
005/23:22:25 MET 30	INRTL R=141.00 MNVR P=198.00 Y=356.00	A12 RATE 0.1000 AUTO DB AT 3.000 VERN DB RT 0.080	SUN R 359 P 19	Shuttle @ Noon (90,90,15)RPY Noon 5/23:22:25 Beta -33.49	BIAS +XPH -ZNN MPA / Thermal (0,15,180)YPR FD7 Crew Day
258/11:53:22 GMT 27					
NON-MNVR					
40					
006/13:45:00 MET 48:09	INRTL R=138.00 MNVR P=183.00 Y= 7.00	A12 RATE 0.1000 AUTO DB AT 3.000 VERN DB RT 0.080	SUN R 283 P 1	Shuttle @ Noon (90,90,30)RPY Noon 6/23:44:16 Beta -29.83	BIAS +XPH -ZNN Orbiter Thermal (0,30,180)YPR FD8 Crew Day
259/02:15:57 GMT 19:06					
41					
007/13:45:00 MET 49	INRTL R=135.00 MNVR P=180.00 Y= 9.00	A12 RATE 0.1000 AUTO DB AT 3.000 VERN DB RT 0.080	SUN R 185 P 4	Shuttle @ Noon (90,90,30)RPY Noon 8/00:05:55 Beta -25.90	BIAS +XPH -ZNN Orbiter Thermal (0,30,180)YPR FD9 Crew Day
260/02:15:57 GMT 16:46					
42					
008/14:15:00 MET 31:28	TGT=2 BV=5 P= 90.00 Y= 0.00 OM= 0.00 UNDOCK @ 8/14:59:04	A12 RATE 0.1000 AUTO DB AT 3.000 VERN DB RT 0.080	EARTH R 360 P 90	LVLH R= 0.00 P=180.00 Y= 0.00	UNDOCKING ATT -ZLV -XV (STS) -XLV -ZV (ISS) (0,90,180)YPR
261/02:45:57 GMT 03:02:25					
43					
008/15:15:40 MET	LVLH FREE ROTATION ROTR ABOUT +Y AXIS RATE=0.130	A9 RATE 0.1300 LVLH DB AT 1.000 VERN DB RT 0.020		LVLH R= 0.00 P=180.00 Y= 0.00	Flyaround Twice Orb Rate 2 Revs
261/03:46:37 GMT					
UNDOCK +16 MINUTES					
44					
008/16:48:00 MET		A9 RATE 0.1300 LVLH DB AT 1.000 VERN DB RT 0.020	EARTH R 360 P 90	LVLH R= 0.00 HOLD P=180.20 Y= 0.00	+X Sep Burn 3.0 fps Retro 3rd -RBAR xing
261/05:18:57 GMT					
45					
008/17:00:00 MET 07:30	TGT=2 BV=3 P= 90.00 Y= 0.00 OM=270.00 WIA A/AUTO/VERN	A6 RATE 0.2000 AUTO DB AT 5.00 ALT DB RT 0.070	EARTH R 0 P 90	LVLH R= 0.00 P=180.00 Y= 90.00	-ZLV +YVV Simo Dump
261/05:30:57 GMT 38:27					
46					
008/18:45:00 MET 53:21	INRTL R=211.00 MNVR P= 53.00 Y= 38.00	A14 RATE 0.2000 AUTO DB AT 15.00 ALT DB RT 0.070	SUN R 180 P 116	Shuttle @ Noon (270,270,41.5) Noon 8/22:55:54 Beta -22.04	SOAR ISS#1 XPOP +XPH -ZNN (0,0,180)YPR
261/07:15:57 GMT 24:18					
WIA B14/AUTO/VERN					
47					
009/03:00:00 MET 08:35	TGT=2 BV=5 P=228.50 Y= 0.00 OM=180.00 FUTURE LOAD	B14 RATE 0.2000 AUTO DB AT 15.000 VERN DB RT 0.020	EARTH R 180 P 131	LVLH R=180.00 P=138.50 Y= 0.00	SOAR ISS#2 TEA BIAS +ZLV -XV Crew Sleep
261/15:30:57 GMT 39:32					
48					
009/15:10:00 MET		A6 RATE 0.0500 INRT DB AT 1.000 VERN DB RT 0.020	SUN R 301 P 157	INRTL R=139.83 HOLD P= 5.48 Y= 17.67	RCS HOT FIRE
262/03:40:57 GMT					

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

Attitude Timeline

MET/GMT	MNVR OPTION	DAP	E/S	REF ATT/REMARKS	EVENT
49					
009/15:25:00 MET 26:29	TGT=2 BV=5 P=270.00 Y= 0.00 OM=180.00 WIA B1/AUTO/VERN	A6 RATE 0.2000 AUTO DB AT 5.00 ALT DB RT 0.070	EARTH R 180 P 90	LVLH R=180.00 P=180.00 Y= 0.00	SOAR CRV LVLH +ZLV -XVV 009/15:30:00 2 Data Takes
262/03:55:57 GMT 57:26					
50					
009/18:10:00 MET 18:04	INRTL R=228.00 MNVR P= 14.00 Y= 10.00 FUTURE LOAD	B1 RATE 0.2000 AUTO DB AT 1.000 VERN DB RT 0.020	SUN R 182 P 161	LVLH EQUIV R : 270 P : 180 Y : .0	SOAR CRV INRTL -Z 90 OOP @ beg 009/18:20:00 2 Data Takes
262/06:40:57 GMT 49:01					
51					
009/20:50:00 MET 58:08	INRTL R=211.00 MNVR P= 94.00 Y=319.00 WIA A/AUTO/VERN	A6 RATE 0.2000 AUTO DB AT 5.00 ALT DB RT 0.070	SUN R 154 P 91	LVLH EQUIV R : 225 P : 180 Y : 0	SOAR CRV INRTL -Z 45 OOP @ beg 009/21:00:00 1 Data Take
262/09:20:57 GMT 29:05					
52					
009/22:15:00 MET 29:38	INRTL R=331.00 MNVR P=334.00 Y=358.00 WIA A/AUTO/VERN	A6 RATE 0.2000 AUTO DB AT 5.00 ALT DB RT 0.070	SUN R 203 P 152	C37 ALPHERATZ AOS: 22:14 LOS: 23:01	HUD CAL
262/10:45:57 GMT 11:00:35					
53					
009/23:00:00 MET 05:40	TGT=4 RA= 175.550 BV=5 DEC= 1.926N P=270.00 Y= 0.00 OM= 0.00 WIA B/AUTO/VERN	A6 RATE 0.2000 AUTO DB AT 5.00 ALT DB RT 0.070	SUN R 180 P 90	INRTL R=354.08 P=275.84 Y= 41.20	+ZSI Thermal Crew Sleep
262/11:30:57 GMT 36:37					
54					
010/04:20:00 MET 29:42	TGT=2 BV=3 P= 90.00 Y= 0.00 OM= 0.00 FUTURE LOAD	B1 RATE 0.2000 AUTO DB AT 1.000 VERN DB RT 0.020	EARTH R 360 P 90	LVLH R= 0.00 P=180.00 Y= 0.00	-ZLV -XVV Crew Sleep
262/16:50:57 GMT 17:00:39					
55					
010/14:35:00 MET 48:52	INRTL R=203.00 MNVR P=135.00 Y=309.00 WIA A/AUTO/VERN	A6 RATE 0.2000 AUTO DB AT 5.00 ALT DB RT 0.070	SUN R 195 P 68	PAIR AOS: 14:46 PAIR LOS: 15:22	IMU ALIGN -Y: 50 -Z: 26
263/03:05:57 GMT 19:49					
56					
010/14:55:00 MET 15:01:51	INRTL R=183.00 MNVR P= 58.00 Y=357.00 WIA A/AUTO/VERN	A6 RATE 0.2000 AUTO DB AT 5.00 ALT DB RT 0.070	SUN R 180 P 124	PAIR AOS: 15:01 PAIR LOS: 15:45	IMU VERIF -Y: 13 -Z: 37
263/03:25:57 GMT 32:48					
57					
010/15:14:00 MET 19:56	TGT=4 RA= 176.156 BV=5 DEC= 1.664N P=184.00 Y= 0.00 OM= 90.00 WIA A/AUTO/VERN	A6 RATE 0.2000 AUTO DB AT 5.00 ALT DB RT 0.070	SUN R 180 P 176	INRTL R=229.71 P= 4.26 Y=359.21	-XSI RAD COLD SOAK
263/03:44:57 GMT 50:53					
58					
010/16:39:00 MET 40:39	INRTL R=272.00 MNVR P= 32.00 Y=357.00	TRN RATE 0.5000 AUTO DB AT 3.50 PRI DB RT 0.20	SUN R 90 P 150		Comm Attitude
263/05:09:57 GMT 11:36					
59					
010/18:55:00 MET 57:51	INRTL R=253.00 MNVR P=306.00 Y=346.00	TRN RATE 0.5000 AUTO DB AT 3.50 PRI DB RT 0.20	SUN R 292 P 124		Estimated D/O TIG and ATT D/O TIG: 19:14 LANDING: 20:14
263/07:25:57 GMT 28:48					

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

ISS DAILY PLAN

ISS DAILY PLAN

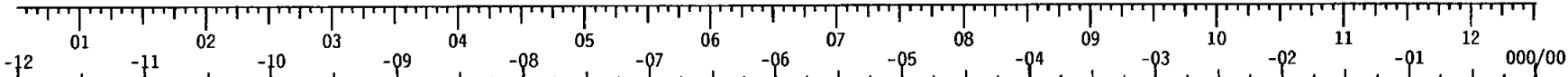
ISS-OC GMT DAY

STP

FINAL

GMT 09/08/00

MET Day 000



ETOV

S
S

S
S

ECS-DES-KEY-U/L
PTCS-NODE-SHL-W/U

ECS-DES-KEY-U/L
PTCS-NODE-SHL-W/U

PTCS-NODE-SHL-W/U

PTCS-NODE-SHL-W/U

O
O

M
M

R
R

C
C

RPT*

IRPT*



DAY/NIGHT

DAILY ORBIT

ISS ORB NUM

ISS

TDRS 49
174
275

RSA GND SITE

POWER
MODE

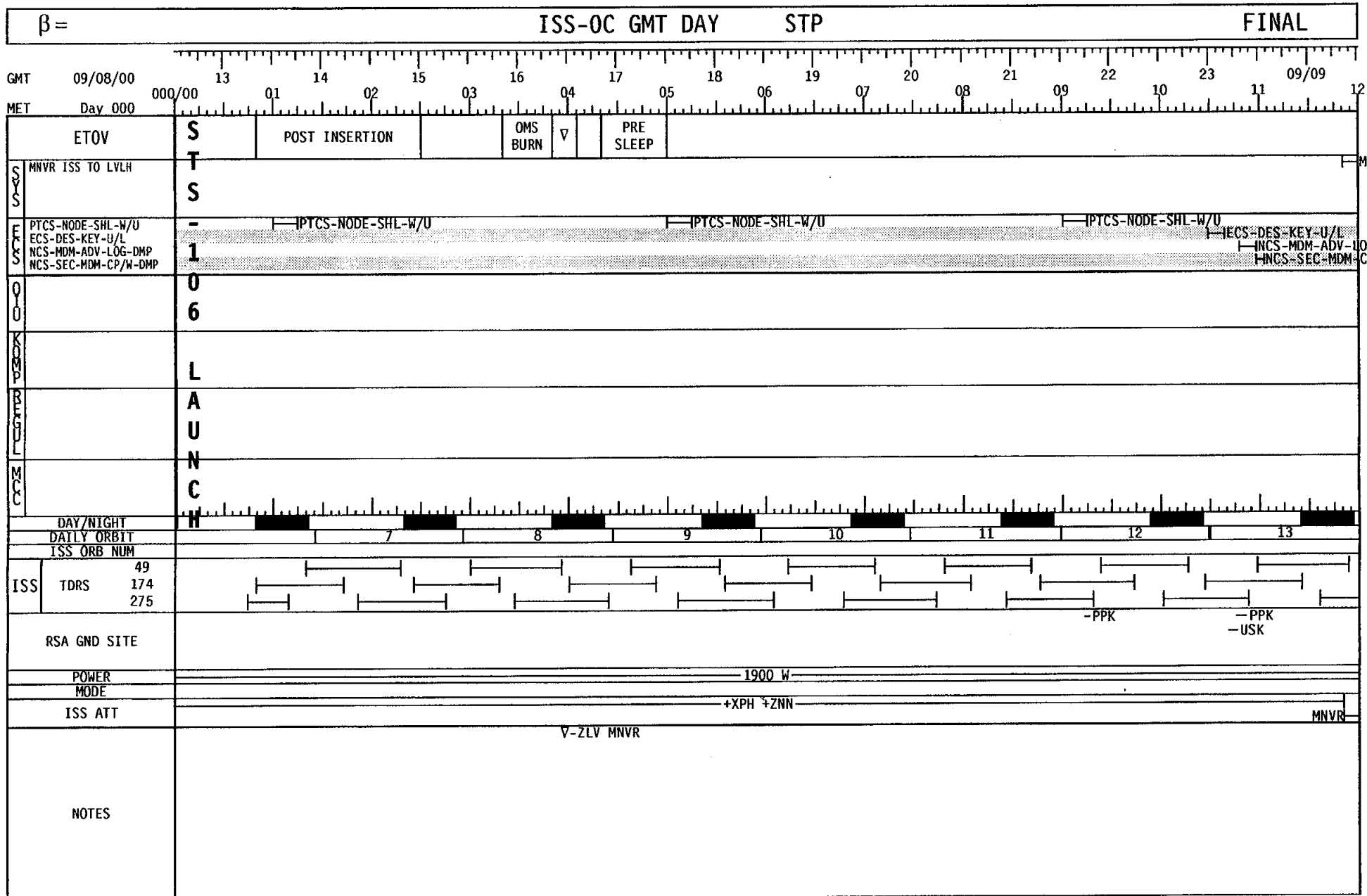
1900 W

ISS ATT

+XPH +ZNN

NOTES

*MCC-M Rprt
"Go" launch



$\beta =$ ISS-OC GMT DAY STP FINAL

GMT 09/09/00
 MET Day 000

ETOV	OMS BURN	PRE ING EQUIP S/U
MNVR ISS TO LVLH	MNVR ISS TO LVLH	
PTCS-NODE-SHL-W/U	IPTCS-NODE-SHL-W/U	
HRK436M1 HC FLTR ACT	HRK436M1 HC FLTR ACT	
SM BMP- ON	HSM BMP- ON	

DAY/NIGHT
 DAILY ORBIT

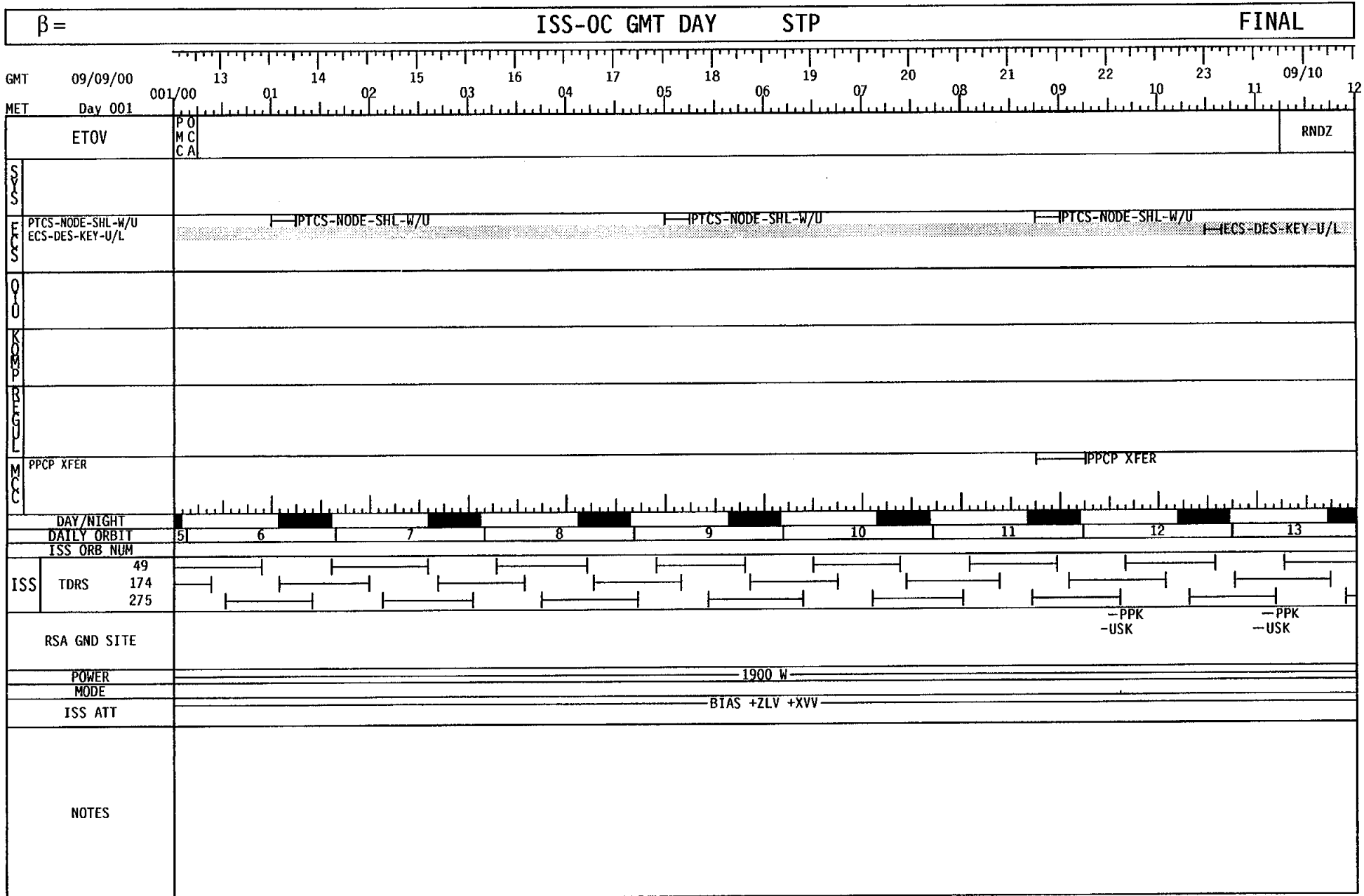
ISS ORB NUM	14	15	16	1	2	3	4	5
TDRS	49	174	275					

RSA GND SITE	-PPK -ULD -USK	-PPK -ULD -USK	-DJS -KLP -PPK -ULSK	-DJS -KLP -ULD -USK	-DJS -KLP -SHK SPBULD	-DJS -KLP -SHK -SPB	-DJS -SHK -SPB	-SHK -SPB
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POWER MODE
 1900 W

ISS ATT
 BIAS +ZLV +XVV
 OMNVR H2O

NOTES



ISS-OC INCREMENT DAY DAILY PLAN **FINAL**

GMT 09/10/00 01 02 03 04 05 06 07 08 20

MET Day 001 12 13 14 15 16 17 18 19

ETOV	T1	RNDZ	HRD MT	ODS VOL PREP INGR	ODS VEST/ PMA2 PRESS	EPCS SETUP	*
S MNVR ISS TO TRK LGHT MNVR ISS TO DOCK ATT C-COC6-C6-SETTING 2 C-KVPC-ON C-COC6-C6-SETTING 2 C-COC6-NMT-ON HATCH LEAK CHECK SM MCS FREE DRIET E		MNVR ISS TO TRK LGHT MNVR ISS TO DOCK ATT C-COC6-C6-SETTING 2 C-KVPC-ON C-COC6-C6-SETTING 2					
		C-COC6-NMT-ON HATCH LEAK CHECK SM MCS FREE DRIET E					
F PTCS-NODE-SHL-W/U EPS-NODE-P/D MCS-N13B/4B-I/O-ENA ACS-PRE-ARV-MODE-TT NCS-DOCK-CNFG ACS-ARRIVAL-MODING NCS-POSTOCK-CNFG		IPTCS-NODE-SHL-W/U EPS-NODE-P/D MCS-N13B/4B-I/O-ENA IACS-PRE-ARV-MODE-TT INCS-DOCK-CNFG					
O ACS-POST-ARV-MODE ECS-P/D							
K PPCP U/L T024 TIME TAG CMD* C-COC6-C6-NMT-ON		PPCP U/L T024 TIME TAG CMD*					
I CYCLOGRAM U/L**		CYCLOGRAM U/L**					
C RPT @ RPT# RS CMD TEST VIA MCCH RPT \$ RPT % RPT ^ MONITOR PRESSURES RPT &		RPT @ RPT# RS CMD TEST VIA MCCH RPT \$					

DAY/NIGHT	
DAILY ORBIT	13 14 15 1 2 3 4
ISS ORB NUM	49 174 275
RSA GND SITE	PPK -DJS -DJS -DJS -DJS ULD -KLP -KLP -KLP -KLP USK -USK -USK -USK -USK -USK -USK -USK
POWER MODE	1900 W 430 W
ISS ATT	BIAS +ZLV +XVV MNVR TRK light MNVR -XLV -ZVV FREE BIAS +XPH -ZNN MPA

*RK252 SA POSN 2 #MCC-H Rprt %MCC-H Rprt Soft Capt,
 **SM SA POS 2 N1 Pwrdn Dock, & XPOP Att
 MNVR TRK ATT & "Go" Dock \$MCC-M Rprt Dck Att, SA Pos2, ^MCC-M Rprt MCS
 MNVR DOCK ATT @MCC-M Rprt & "Go" for Dock Deact & SA Trk

7-6 FLT PLN/106/FIN 08/10/00

MONIT
RPT &

*APCU A
&MCC-
"Go"
N1 F

β = ISS-OC INCREMENT DAY DAILY PLAN FINAL

GMT 09/10/00 09 21 10 22 11 23 12 002/00
 MET Day 001 20

ETOV * EVA BRIEF APCU DEACT

AR-NODE-AIR-SCRUB
 EPCS DEACT IAR-NODE-AIR-SCRUB IEPCS DEACT

ACS-CABIN-FAN-ACT
 EPS-NODE-P/U IACS-CABIN-FAN-ACT
 MCS-FDIR-N13B/4B-ENA IEPS-NODE-P/U
 PTCS-NODE-SHL-W/U IMCS-FDIR-N13B/4B-ENA
 ACS-CABIN-FAN-DEACT IPTCS-NODE-SHL-W/U
 MCS-FDIR-N13B/4B-INH IACS-CABIN-FAN-DEACT
 ECS-P/U IMCS-FDIR-N13B/4B-INH IEPS-P/U
 NCS-N1-2-R2-UPLD

MONITOR PRESSURES RPT & IRPT &

DAY/NIGHT
 DAILY ORBIT
 ISS ORB NUM

ISS TORS 49
 174
 275

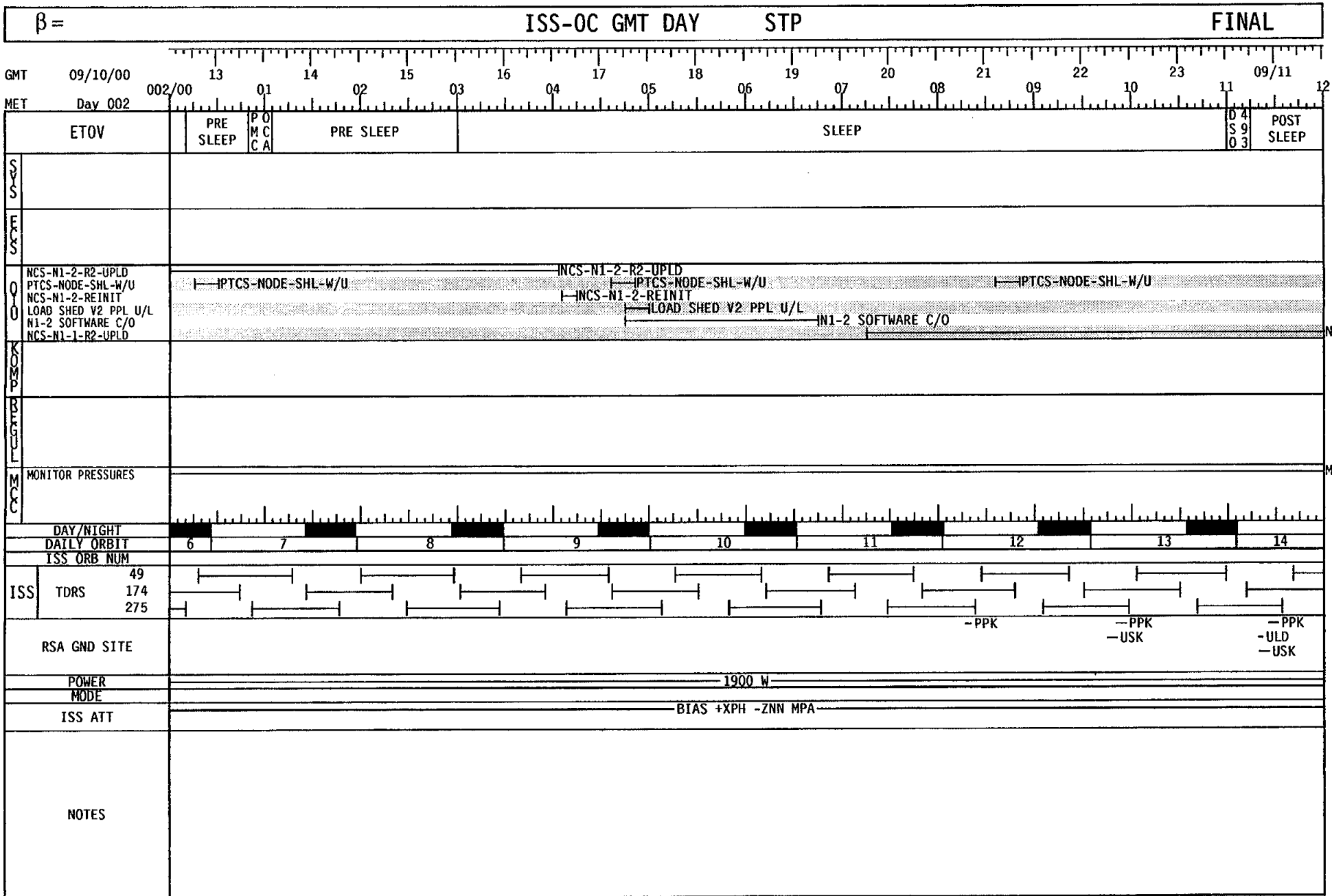
RSA GND SITE
 —DJS —DJS
 —SHK —SHK
 —SPB —SPB

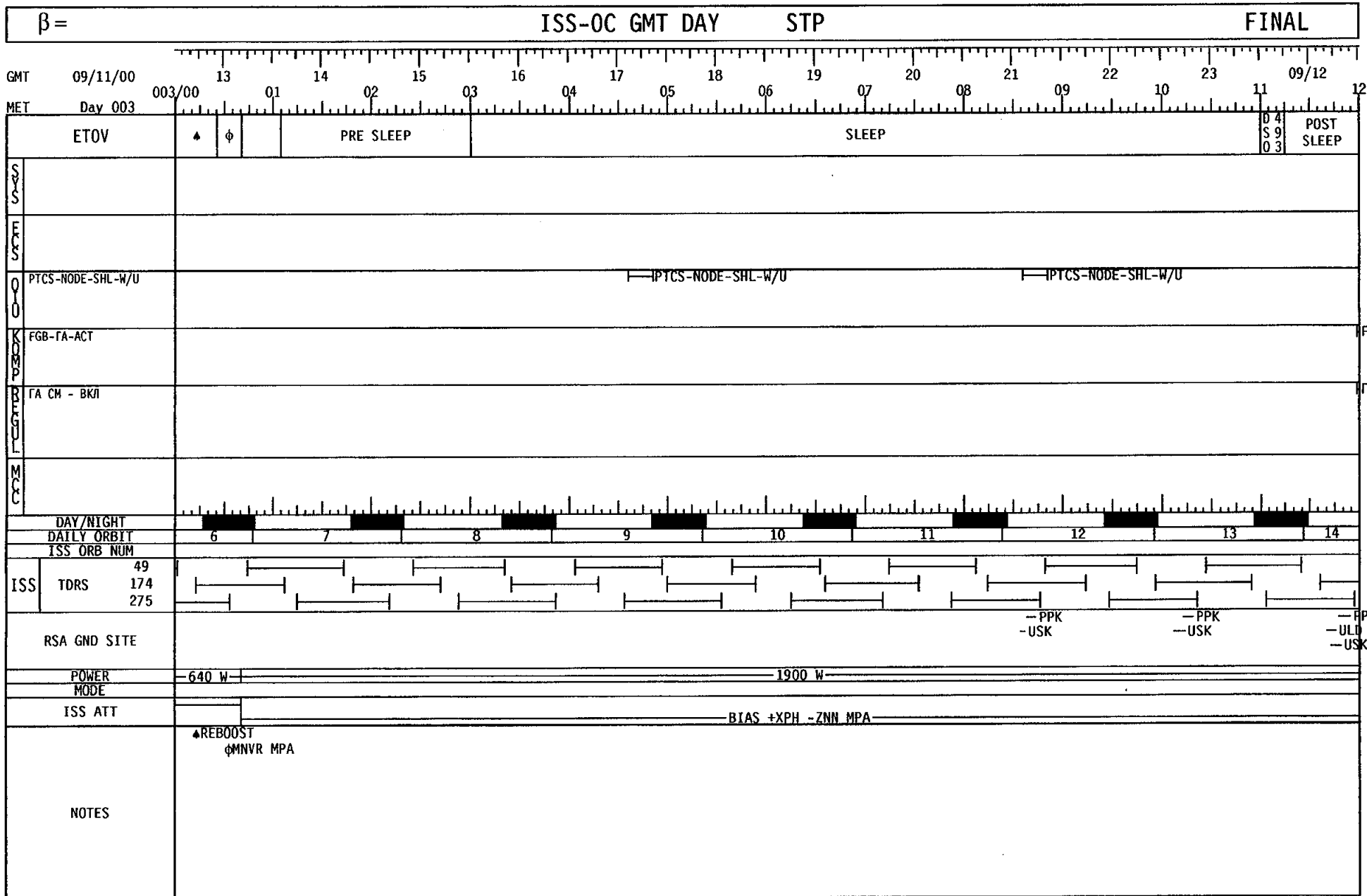
POWER MODE 1900 W

ISS ATT BIAS +XPH -ZNN MPA

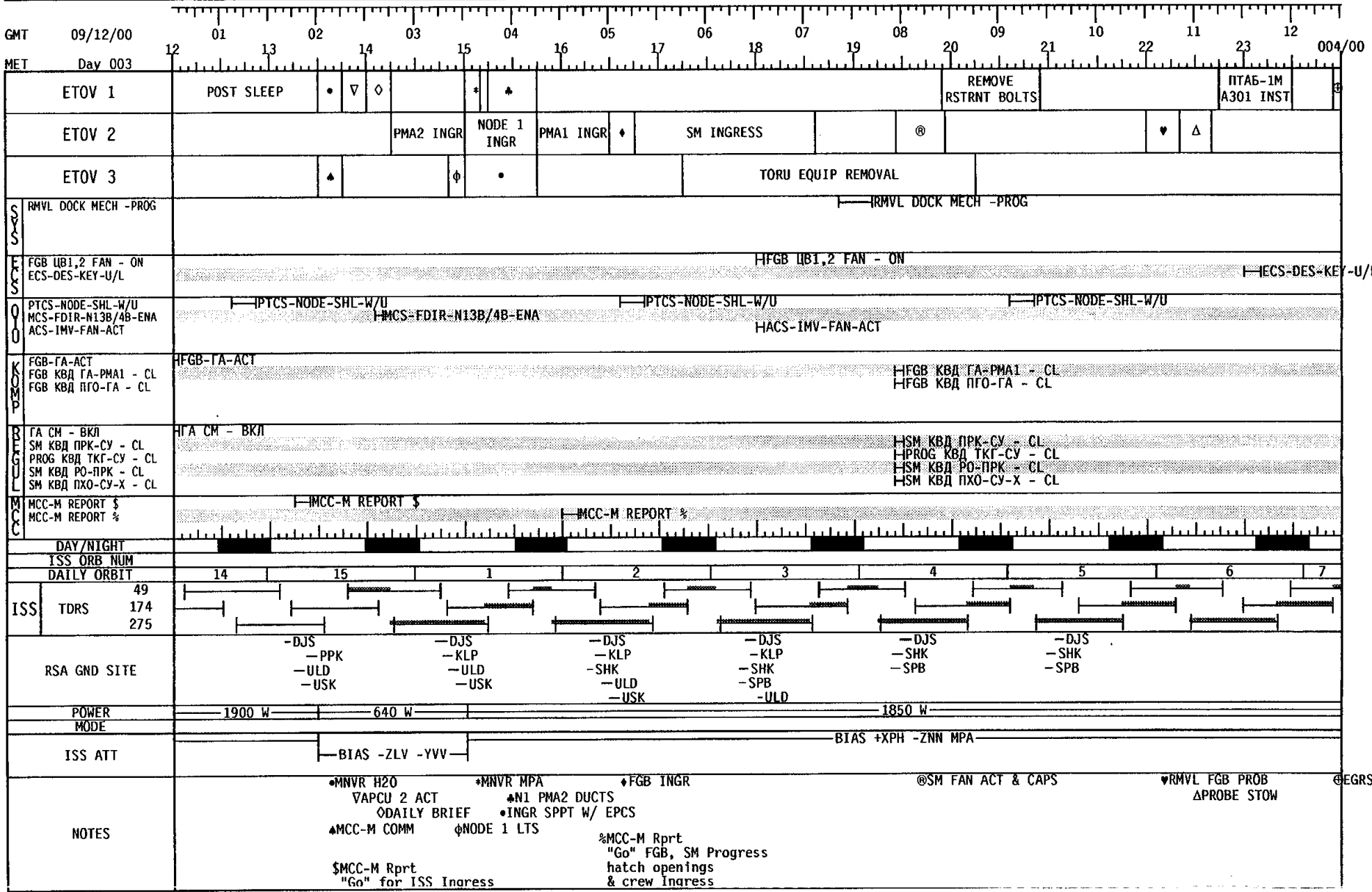
NOTES
 *APCU ACT
 &MCC-M Rprt
 "Go" for
 N1 Pwrup

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$\beta = 35.7$ (MAG INCR) ISS-OC GMT DAY STP FINAL



β = ISS-OC GMT DAY STP FINAL

GMT 09/12/00 004/00 13 01 14 02 15 03 16 04 17 05 18 06 19 07 20 08 21 09 22 10 23 11 09/13 12

MET Day 004

ETOV	P O M C A	PRE SLEEP	SLEEP	D 4 S 9 O 3	POST SLEEP
------	-----------------------	-----------	-------	-------------------	------------

S S S					
Q O O	PTCS-NODE-SHL-W/U	IPTCS-NODE-SHL-W/U			
P B C K					
L G H T					
C R M					

DAY/NIGHT DAILY ORBIT ISS ORB NUM

ISS TDRS 49 174 275

RSA GND SITE

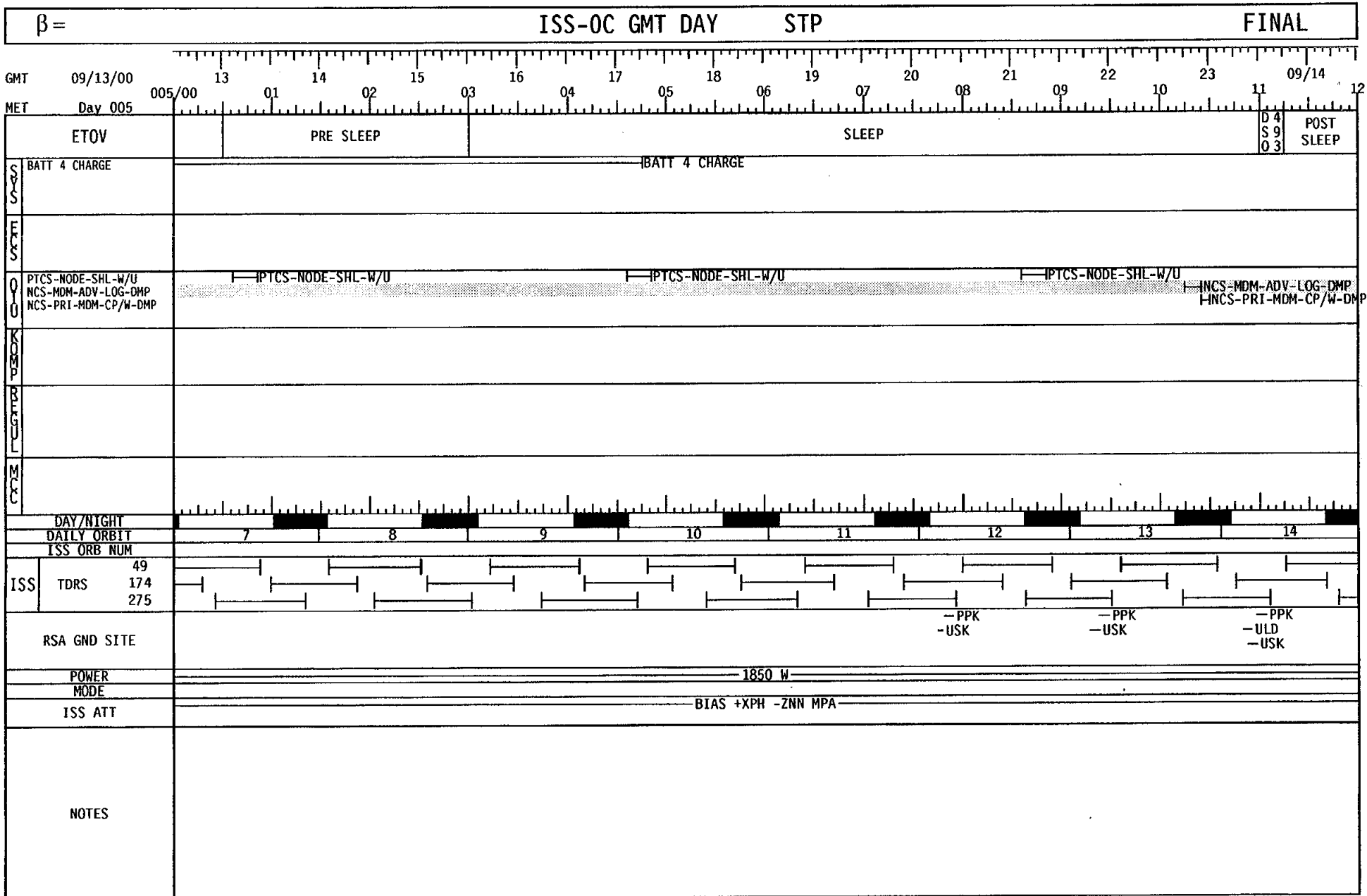
--PPK --PPK --PPK
--USK --USK --ULD
--USK

POWER MODE 1850 W

ISS ATT BIAS +XPH -ZNN MPA

NOTES

β =		ISS-OC GMT DAY										STP		FINAL	
GMT	09/13/00	01 02 03 04 05 06 07 08 09 10 11 12													
MET	Day 004	12 13 14 15 16 17 18 19 20 21 22 23 005/00													
ETOV 1	POST SLEEP	∇	БУПТ-1М А405 INST	◇	*	▲	⊕		БУПТ-1М А403 INST	БУПТ-1М А401 INST	◆	⊗			
ETOV 2			FGB BATT 4 R&R			ПТАБ-1М А305 INST	ПТАБ-1М А303 INST								
BATT 4 CHARGE														BATT 4	
ECS-DES-KEY-U/L														ECS-DES-KEY-U/L	
PTCS-NODE-SHL-W/U			PTCS-NODE-SHL-W/U			PTCS-NODE-SHL-W/U					PTCS-NODE-SHL-W/U				
DAY/NIGHT															
ISS ORB NUM			15	16	1	2	3	4	5	6					
DAILY ORBIT															
ISS TDRS	49														
	174														
	275														
RSA GND SITE		-PPK -ULD -USK	-DJS -KLP -PPK -ULD -USK	-DJS -KLP -ULD -USK	-DJS -KLP -SHK -ULD -USK	-DJS -KLP -SHK -ULD -USK	-DJS -KLP -SHK -SPB	-DJS -KLP -SHK -SPB	-DJS -SHK -SPB						
POWER MODE								1850 W							
ISS ATT								BIAS +XPH -ZNN MPA							
NOTES			VMNVR MPA		0800A BATT A105 INSTL		*CYCLE ERGO INST	⊕CWC XFER (2)					⊕800A BATT A103 INSTL	⊕800A BATT A101 I	



$\beta =$ ISS-OC GMT DAY STP FINAL

GMT 09/14/00 01 02 03 04 05 06 07 08 09 10 11 12 006/00
 MET Day 005 12 13 14 15 16 17 18 19 20 21 22 23

ETOV 1 POST SLEEP \heartsuit \blacktriangle PROG U/L ϕ Δ

ETOV 2 FGB BATT 6 R&R CT-25 INSTAL •

BATT 6 CHARGE BATT (

ECS-DES-KEY-U/L ECS-DES-KEY-U/L

PTCS-NODE-SHL-W/U IPTCS-NODE-SHL-W/U IPTCS-NODE-SHL-W/U IPTCS-NODE-SHL-W/U

DAY/NIGHT

ISS ORB NUM DAILY ORBIT 15 1 2 3 4 5 6 7

ISS TDRS 49 174 275

RSA GND SITE -DJS -PPK -ULD -USK -DJS -KLP -ULD -USK -DJS -KLP -SHK -ULD -USK -DJS -KLP -SHK -ULD -USK -DJS -SHK -SPB -DJS -SHK -SPB

POWER MODE 1850 W

ISS ATT BIAS +XPH -ZNN MPA BIAS +XPH -ZNN MPA BIAS -ZLV -YVV

NOTES \blacktriangledown MNVR MPA \blacktriangle INGRS ϕ MNVR H2O Δ MNVR MPA \bullet TVIS PAN IN

β =		ISS-OC GMT DAY										STP		FINAL				
GMT		09/14/00										09/15						
MET		Day 006										006/00						
ETOV		PO MC CA		PRE SLEEP					SLEEP					D4 S9 O3		POST SLEEP		
S		BATT 6 CHARGE										BATT 6 CHARGE						
F																		
O		PTCS-NODE-SHL-W/U		PTCS-NODE-SHL-W/U			PTCS-NODE-SHL-W/U			PTCS-NODE-SHL-W/U								
D																		
B																		
K																		
L																		
M																		
C																		
C																		
DAY/NIGHT		[Bar chart showing day/night cycles]																
DAILY ORBIT		7 8 9 10 11 12 13 14 15																
ISS ORB NUM																		
ISS		TDRS		49					174					275				
RSA GND SITE												-PPK		-PPK -USK		-PPK -ULD -USK		-PPK -ULD -USK
POWER MODE												1850 W						
ISS ATT												BIAS +XPH -ZNN MPA						
NOTES																		

β = ISS-OC GMT DAY STP FINAL

GMT 09/15/00 01 02 03 04 05 06 07 08 09 10 11 12 007/00
 MET Day 006 12 13 14 15 16 17 18 19 20 21 22 23

ETOV POST SLEEP ∇ ◊ TVIS ASSEMBLY TVIS CAGE ASSEMBLY TVIS INSTALL *

S S S

ECS-DES-KEY-U/L ECS-DES-KEY-U/L

PTCS-NODE-SHL-W/U EPS-RPCM-N1RS1-BDT EPS-RPCM-N1RS2-BDT
 IPTCS-NODE-SHL-W/U IPTCS-NODE-SHL-W/U
 IPTCS-NODE-SHL-W/U IPTCS-NODE-SHL-W/U
 EPS-RPCM-N1RS1-BDT EPS-RPCM-N1RS2-BDT
 EPS-RPCM-N1RS1-BDT EPS-RPCM-N1RS2-BDT

FGB ΦBN - OFF HFGB ΦBN - OFF

DAY/NIGHT

DAILY ORBIT ISS ORB NUM

ISS TDRS 49 174 275

RSA GND SITE -DJS -KLP -PPK -ULSK -DJS -KLP -ULD -USK -DJS -KLP -SHK -ULSK -DJS -KLP -SHK -SPB -DJS -SHK -SPB -SHK -SPB

POWER MODE 1850 W

ISS ATT BIAS +XPH -ZNN MPA

NOTES VMNVR MPA OHCf REPL *POST TVIS INSTALL

β =		ISS-OC GMT DAY										STP	FINAL		
GMT	09/15/00	007/00 13 01 14 02 15 03 16 04 17 05 18 06 19 07 20 08 21 09 22 10 23 11 09/16										12			
MET	Day 007														
	ETOV	PRE SLEEP					SLEEP					D4 S9 O3	POST SLEEP		
S															
F															
O	PTCS-NODE-SHL-W/U	IPTCS-NODE-SHL-W/U			IPTCS-NODE-SHL-W/U			IPTCS-NODE-SHL-W/U							
R															
B															
C															
M															
	DAY/NIGHT	[Bar chart showing day/night cycle]													
	DAILY ORBIT	7 8 9 10 11 12 13 14 15													
	ISS ORB NUM														
ISS	TDRS	49	[Orbit bars]												
		174	[Orbit bars]												
		275	[Orbit bars]												
	RSA GND SITE											-PPK -USK	-PPK -USK	-PPK -ULD -USK	-DJS -PPK -ULD -USK
	POWER											1850 W			
	MODE														
	ISS ATT											BIAS +XPH	-ZNN MPA		
	NOTES														

β = ISS-OC GMT DAY STP FINAL

GMT 09/16/00 01 02 03 04 05 06 07 08 09 10 11 12 008/00
 MET Day 007

ETOV 1	POST SLEEP	LOGSTC XFER										
ETOV 2		LOGSTC XFER	PROG EGRESS	LOGSTC XFER		♦ SM EGRESS	FGB EGRESS	⊙	NODE 1 EGRESS & ISOL	PMA2 EGRS	♥	
ETOV 3			Δ	TOILET/HOSE INST								

S S S	NODE 1 DRYOUT											NODE
	FGB TSV1,2 FAN - OFF CBM-C/O-8* ECS-DES-KEY-U/L FGB FA-PMA1 KBD - OP	HFGB TSV1,2 FAN - OFF ICBM-C/O-8* IECS-DES-KEY-U/L IFGB FA-PMA1 KE										
O O O	PTCS-NODE-SHL-W/U N1-AP-IMV-FAN-DEACT	IPTCS-NODE-SHL-W/U IPTCS-NODE-SHL-W/U IN1-AP-IMV-FAN-DEACT IPTCS-NODE-SHL-W/U										

R R R	SM BMP - OFF PROG KBD VEST - OP PROG KBD VEST - CL	HSM BMP - OFF HPROG KBD VEST - OP HPROG KBD VEST - CL									
-------------	--	---	--	--	--	--	--	--	--	--	--

M C C	MCC-M REPORT & FGB/N1-LEAK-CHK	HMCC-M REPORT & HFGB/N1-LEAK-CHK									
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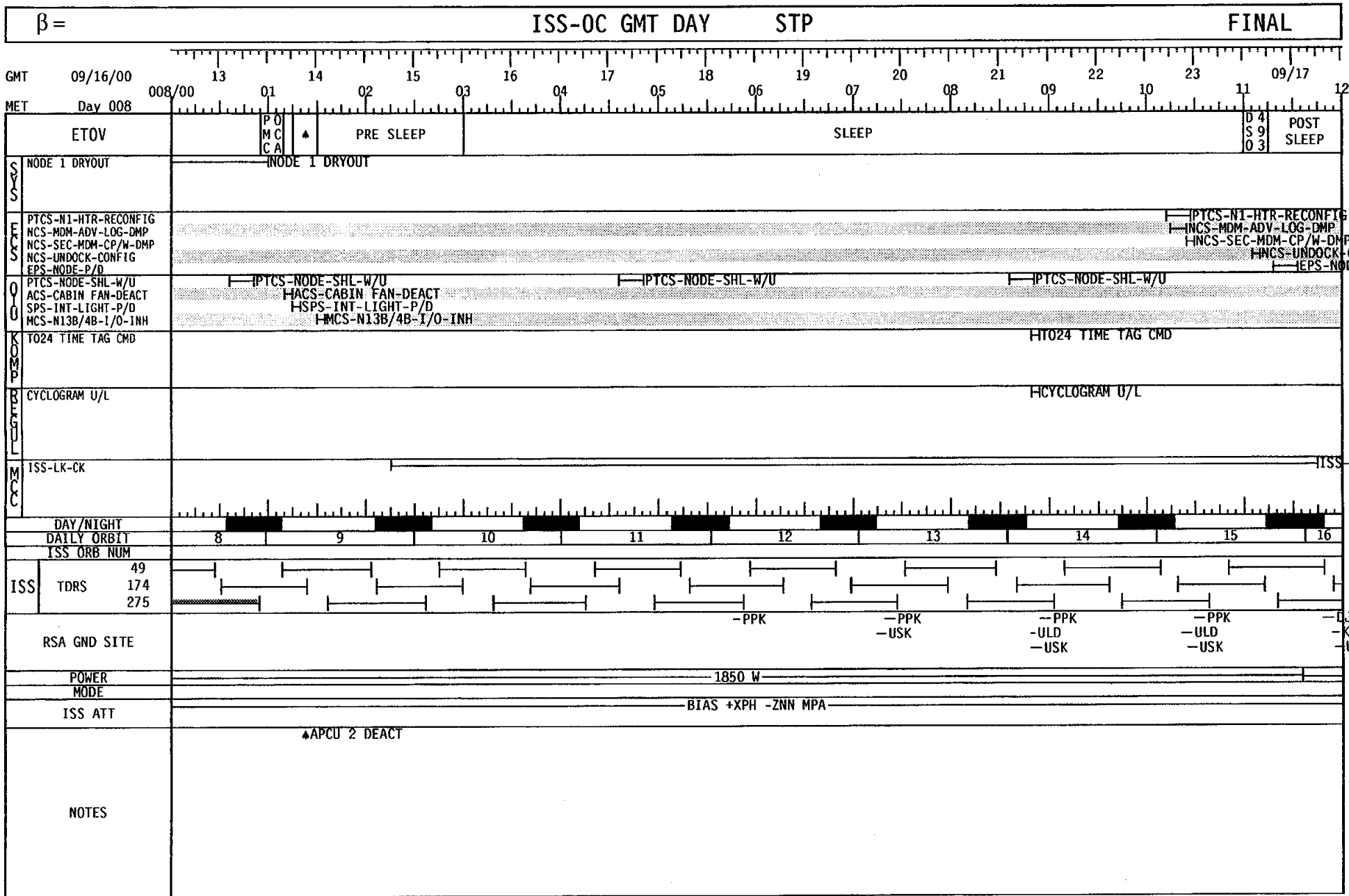
DAY/NIGHT		[Bar chart showing day/night cycle]										
ISS ORB NUM		[Bar chart showing orbit numbers]										
DAILY ORBIT		15	1	2	3	4	5	6	7	8		
ISS	TDRS	49	174	275	[Bar chart showing TDRS coverage]							

RSA GND SITE	-DJS	-DJS	-DJS	-DJS	-DJS
	-KLP	-KLP	-KLP	-SHK	-SHK
	-ULD	-SHK	-SHK	-SPB	-SPB
	-USK	-ULD	-SPB		
		-USK	-ULD		

POWER MODE 1850 W

ISS ATT BIAS +XPH -ZNN MPA

NOTES	♦DAILY BRIEF ⊙INGRS	ΔEGRS PO-NPK &MCC-M Report Go for FGB HCF C/O	♦SM FAN DUCT	⊙PMA1 EGRESS & ISOL &*-Zenith & Nadir	♥VEST DI
-------	------------------------	--	--------------	--	----------



β = ISS-OC GMT DAY STP FINAL

GMT 09/17/00 MET Day 008 12 01 02 03 04 05 06 07 08 09 10 11 12 009/00

ETOV	POST SLEEP		UNDOCK/SEP OPS	φ
C-COCB-CB-SETTING 2 φ-COCB-CB-SETTING 2 EPCS DEACT C-COCB-PMT-ON SM MCS ACTIVATION MNVR ISS TO XPOP MNVR ISS TO TEA		C-COCB-CB-SETTING 2 φ-COCB-CB-SETTING 2 EPCS DEACT	C-COCB-PMT-ON HSM MCS ACTIVATION	MNVR ISS TO XPOP MNVR ISS TO TEA
ACS-PRE-DEPART-MODE NCS-UNDOCK-CONFIG ACS-DEPART-MODE PTCS-NODE-HTR-RECON* ECS-DES-KEY-U/L		IACS-PRE-DEPART-MODE IACS-UNDOCK-CONFIG	UNCS-UNDOCK-CONFIG IACS-DEPART-MODE IACS-DEPART-MODE	IPTCS-NODE-HTR-RECON* ECS-DES-KEY-U/L
φ-COCB-φCB-PMT-ON			φ-COCB-φCB-PMT-ON	
RPT & RPT \$		IRPT &		IRPT \$

DAY/NIGHT	16	1	2	3	4	5	6	7	8	
DAILY ORBIT	[Bar chart showing orbit patterns]									
ISS ORB NUM	[Bar chart showing orbit numbers]									
ISS	TDRS 49	174	275							
RSA GND SITE	-PPK -ULD -USK	-DJS -KLP -ULD -USK	-DJS -KLP -SHK -USK	-DJS -KLP -SHK -SPB	-DJS -SHK -SPB	-SHK -SPB				
POWER MODE	400 W				600 W					
ISS ATT	BIAS +XPH -ZNN MPA -XLV -ZVV	FREE	TOSK	MNVR	+XPH +ZNN	MNVR	TEA (+XVV)			

NOTES

&MCC-M Rprt & "Go" for Undock

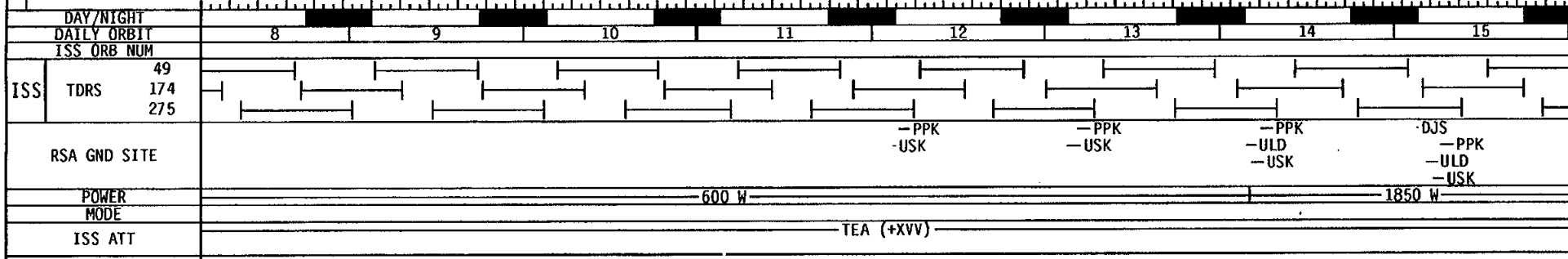
*Possibly 72 hours post undock for powerup, based on MCC-M FD Go.

\$MCC-M Rprt "Go" for NI Pwrap

$\beta =$ ISS-OC GMT DAY STP FINAL

GMT 09/17/00 009/00 13 01 14 02 15 03 16 04 17 05 18 06 19 07 20 08 21 09 22 10 23 11 09/18 12
 MET Day 009

ETOV	
S	
S	
F	
F	
Q	
Q	
M	
M	
P	
P	
B	
B	
F	
F	
L	
M	
C	



NOTES

$\beta =$ ISS-OC GMT DAY STP FINAL

GMT 09/18/00 01 02 03 04 05 06 07 08 09 10 11 12 010/00
 MET Day 009 12 13 14 15 16 17 18 19 20 21 22 23

ETOV CREW CONF

S/S
 S/S
 ECS-DES-KEY-U/L ECS-DES-KEY-U/L
 O/O
 O/O
 O/O
 O/O
 O/O
 O/O

DAY/NIGHT
 DAILY ORBIT
 ISS ORB NUM

ISS TDRS 49
 174
 275

RSA GND SITE
 -DJS -DJS -DJS -DJS -DJS
 -KLP -KLP -KLP -SHK -SHK
 -ULD -SHK -SHK -SPB -SPB
 -USK -USK -SPBLD

POWER MODE 1850 W

ISS ATT TEA (+XVV)

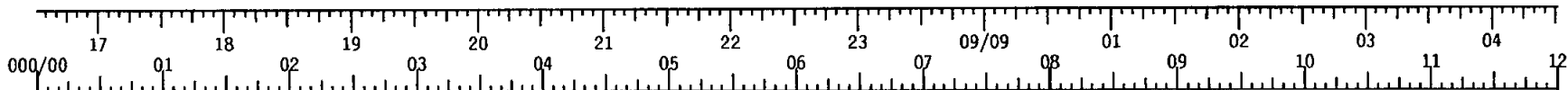
NOTES

RUSSIAN SUMMARY TIMELINE

RUSSIAN SUMMARY
TIMELINE

СТ 09/08/00

РТ АЕНЬ 000



FD01 CDR T. WILCUTT		ОП ПОСЛЕ ВЫВЕДЕНИЯ	◆▼◎Δφ	NCI ИМП OMS	М- AZ HL EV P	◆	ДЕЙСТВИЯ ДО СНА	CON
PLT S. ALTMAN		ОП ПОСЛЕ ВЫВЕДЕНИЯ ◆ODS Init	ЗЦ АА ГП Р О S	ИМП OMS	ВГ ЫР КУ Л П В	◆	ДЕЙСТВИЯ ДО СНА	CON
MS1 E. LU	L A U N S	ОП ПОСЛЕ ВЫВЕДЕНИЯ ◆ODS Init	АКТИВ СПХЭБА, Ч I	ПОДГ PGSC	ДЕЙСТВИЯ ДО СНА	ВГ ЫР КУ Л П В	ДЕЙСТВИЯ ДО СНА	CON
MS2 R. MASTRACCHIO		ОП ПОСЛЕ ВЫВЕДЕНИЯ	АКТИВ СПХЭБА, Ч I	ПОДГ PGSC	* ДЕЙСТВИЯ ДО СНА			CON
MS3 D. BURBANK	C H 2	ОП ПОСЛЕ ВЫВЕДЕНИЯ	◆	◆	ПОДГ ОСА	⊕	ДЕЙСТВИЯ ДО СНА	CON
MS4 Y. MALENCHENKO		ОП ПОСЛЕ ВЫВЕДЕНИЯ	ПОДГОТ "SEE"					ДЕЙСТВИЯ ДО СНА
MS5 B. MORUKOV		ОП ПОСЛЕ ВЫВЕДЕНИЯ	УСТ СИСТ GIRA	⊗			ДЕЙСТ ДО СНА - GIRA	CON

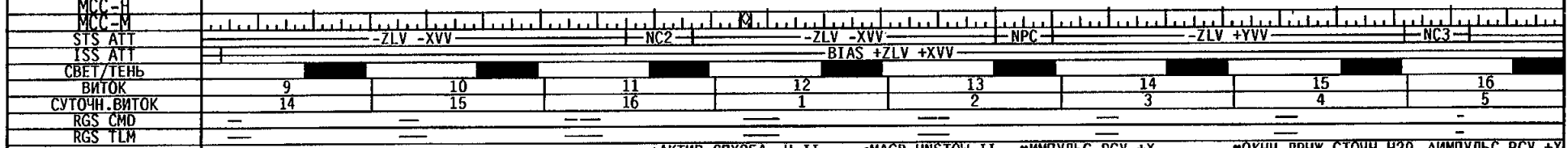
MCC-H	
MCC-M	
STS ATT	ASCENT
ISS ATT	-ZLV -YVV
СВЕТ/ТЕНЬ	
ВИТОК	
СУТОЧН. ВИТОК	2 3 4 5 6 7 8
RGS CMD	7 8 9 10 11 12 13
RGS TLM	

NOTES

◆ПРОВКА КОРМ КОНТРОЛ ◆КОНФДЕНЦ МЕД БРТ/ЗМЛ
 ◎ЭЛЕВОНЫ В НЕЙТРАЛЬ
 ▼ВЫСТВК БИИ - ЗВ ДАТЧ
 ΔТЕСТ ЛАМП ◆ОТКЛ НАГРЕВ АРУ
 φПРОВЕРКА ДАТЧ ДЫМА
 ∇ТЕСТ ЛАМП
 ОПРОВЕРКА ДАТЧ ДЫМА
 +MAGR UNSTOW I
 ◆ПОДГ УСТР ОЧСТК ВОЗД
 ⊕РАСЧ И СБОР ЦВ ПРИНТ
 ◆ТЕРС (ВКЛ ПИТАНИЯ)
 ◎CGVA СК

FLT PLN/106/FIN 08/10/00

CDR T. WILCUTT	CON	DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА	NC2 ИМП OMS	ПОФГ PGSC ДЛЯ СБЛИЖ	ПРВРКА АПП ДЛЯ СБЛИЖ	MS AGT RUP	NPC	φ	ПРИЕМ ПИЩИ	ПОДГ ОБРУДОВАН	NC3 Δ	MS NO BAR	▲					
PLT S. ALTMAN	CON	DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА	ИМП OMS	ПОФГ PGSC ДЛЯ СБЛИЖ	ПРВРКА АПП ДЛЯ СБЛИЖ	ПРОВЕРКА МАНИПУЛЯТ	⊕	◇	⊗	ПРИЕМ ПИЩИ	▼	ПОДГ ЭРГОМЕТРА	▲	▽	*	ОП С СИС КОН ТОП ЭЛ		
MS1 E. LU	CON	DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА	▲	ПОФГ PGSC ДЛЯ СБЛИЖ	ПРОВ СКАФ (3,2)	ПРОВ СКАФ (1)	ПРИЕМ ПИЩИ	МОНТ ЦЕНТ ТВ КАМЕРЬ	ВС К Ы ТО ДЫ Л В К Ъ И Ц Ж А	ПОДГ И АКТИВ SOAR	Δ							
MS2 R. MASTRACCHIO	CON	DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА	φ	▽	ПОДГОТ FRED	ВКЛ RMS	ПРОВЕРКА МАНИПУЛЯТ	•	BR Ы M K S Л	SH MOD S/U	ПРИЕМ ПИЩИ	ПОДГ К ПЕРНОСУ СПХЭБ	ПОДГ К СЪЕМКЕ P/TV20	ФИЗ УПР				
MS3 D. BURBANK	CON	DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА	◇	ПОДГОТ ШО	ПРОВ СКАФ (3,2)	ПРОВ СКАФ (1)	ПРИЕМ ПИЩИ	МОНТ ЦЕНТ ТВ КАМЕРЬ	ВС К Ы ТО ДЫ Л В К Ъ И Ц Ж А	ПОДГ СЕТИ КОМ ЛЭПТОП	ФИЗ УПР							
MS4 Y. MALENCENKO	CON	DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА	ПОДГОТ ШО	ПРОВ СКАФ (3,2)	ПРОВ СКАФ (1)	ПРИЕМ ПИЩИ	ПОДГ ОБРУДОВАН	ФИЗ УПР										
MS5 B. MORUKOV	CON	DSO 493	ПОСЛЕ СНА - СИС GIRA	▽	▲	ПР (I O/S Д T S Г V V O) K 8	φ	ПЕРВОНАЧ ПОДГ СВС	ОЧИСТКА ФИЛЬТРА	◆	Δ	•	⊗	ПРИЕМ ПИЩИ	▼	ПОДГ ЭРГОМЕТРА	▲	⊕	ПОДГ К СЪЕМКЕ P/TV20



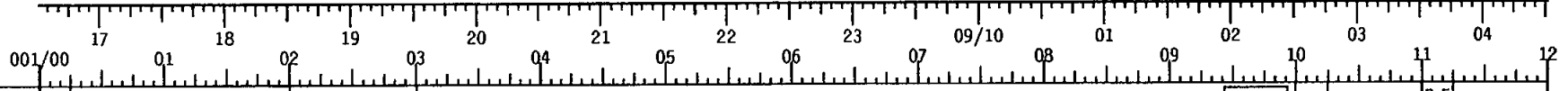
NOTES

▲АКТИВ СПХЭБА, 4 II •MAGR UNSTOW II ▼ИМПУЛЬС РСУ +X ▼ОКНЧ ДРНЖ СТОЧН Н20 ДИМПУЛЬС РСУ +X
 ФОЧСТК НАГР/ФЛТР МС1U ФМАНЕВР ДЛЯ ДРНЖ Н20 ▲СГВА СК ▲МНВР ДЛЯ
 ▼АКТИВ СПХЭБА, 4 II ◊ИМПУЛЬС РСУ +X ▼ОКНЧ НАПОЛНЕНИЯ СВС ДИМПУЛЬС РСУ +X
 ○ПРВ ИНТЕРФ БЛК ШТЛА ◊ОСМОТР МАНИПУЛЯТ ОПН ◊НАЧ ДРНЖ СТОЧН Н20 ▲ПРОДУВКА ТЭ - РУЧН ΔMICRO
 *СГВА СК ФОКНЧ ЗАР БАТ ШЛМ ◊ОСМОТР МАНИПУЛЯТ ОПН ◊НАЧ ДРНЖ СТОЧН Н20 ▲ПЕРКЛ КОНТР ИСПАРИТ
 ▲ПРОБА ВОДЫ НА КУХНЕ ◊ОСМОТР МАНИПУЛЯТ ОПН ◊CORDLESS DRILL BATT ◊ПЕРКЛ КОНТР ИСПАРИТ
 ▼СЪЕМКА-03 ○ПОСЛ КОМ НСФ ДО СТЫК ◊CORDLESS DRILL BATT ◊CORDLESS DRILL BATT

8-3
 ΔОКОНЧ НАПОЛНЕНИЯ СВС
 ΔОКОНЧ НАПОЛНЕНИЯ СВС
 FLT PLN/1007-11P 08/10/00

СТ 09/09/00

РТ АЕНЬ 001



CDR T. WILCUTT	* ДЕЙСТВИЯ ДО СНА	ФИЗ УПР	СОП	FD03	DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА	В Г К Р Л У П В	RNDZ ISS
PLT S. ALTMAN	ФИЗ УПР	ДЕЙСТВИЯ ДО СНА	СОП		DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА	В Г К Р Л У П В	RNDZ ISS
MS1 E. LU	* ⊕	ФИЗ УПР	ДЕЙСТВИЯ ДО СНА	СОП	DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА		RNDZ ISS
MS2 R. MASTRACCHIO	ФИЗ УПР	ДЕЙСТ ДО СНА - GIRA		СОП	DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА		
MS3 D. BURBANK	ДЕЙСТВИЯ ДО СНА		СОП		DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА		
MS4 Y. MALENCHENKO	ДЕЙСТВИЯ ДО СНА		СОП		DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА		
MS5 B. MORUKOV	ДЕЙСТВИЯ ДО СНА		СОП		DSO 493	ПОСЛЕ СНА - СИС GIRA		

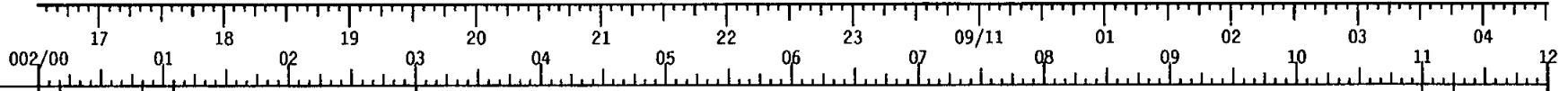
MCC-H													
MCC-M													
STS ATT	SOAR INRTL												
ISS ATT	BIAS +ZLV +XVV												
СВЕУ/ТЕНЬ	+ZLV -XVV												
ВИТОК	17	18	19	20	21	22	23	24					
СУТОЧН.ВИТОК	5	6	7	8	9	10	11	12	13				
RGS CMD													
RGS TLM													

NOTES

*ЧАСТИ РАЗГ ЧЕРЕЗ ОСА
 *MICRO WIS SETUP
 ⊕ДЕЙСТВИЯ ДО СНА

СТ 09/10/00

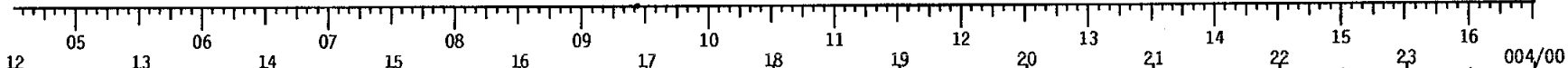
РТ АЕНЬ 002



<p>FD03 CDR T. WILCUTT</p>	<p>♦ ДЕЙСТВИЯ ДО СНА</p>	<p>® ДЕЙСТВИЯ ДО СНА</p>	<p>СОИ</p>	<p>FD04</p>	<p>DSO 493 ДЕЙСТВИЯ ПОСЛЕ СНА</p>
<p>PLT S. ALTMAN</p>	<p>ДЕЙСТВИЯ ДО СНА</p>		<p>СОИ</p>	<p>DSO 493</p>	<p>ДЕЙСТВИЯ ПОСЛЕ СНА</p>
<p>MS1 E. LU</p>	<p>Физ УПР</p>	<p>ДЕЙСТВИЯ ДО СНА</p>	<p>СОИ</p>	<p>DSO 493</p>	<p>ДЕЙСТВИЯ ПОСЛЕ СНА</p>
<p>MS2 R. MASTRACCHIO</p>	<p>ДЕЙСТВИЯ ДО СНА</p>		<p>СОИ</p>	<p>DSO 493</p>	<p>ДЕЙСТВИЯ ПОСЛЕ СНА</p>
<p>MS3 D. BURBANK</p>	<p>ДЕЙСТВИЯ ДО СНА</p>		<p>СОИ</p>	<p>DSO 493</p>	<p>ДЕЙСТВИЯ ПОСЛЕ СНА</p>
<p>MS4 Y. MALENCHEK</p>	<p>ДЕЙСТВИЯ ДО СНА</p>		<p>СОИ</p>	<p>DSO 493</p>	<p>ДЕЙСТВИЯ ПОСЛЕ СНА</p>
<p>MS5 B. MORUKOV</p>	<p>ДЕЙСТВИЯ ДО СНА</p>		<p>СОИ</p>	<p>DSO 493</p>	<p>ПОСЛЕ СНА - СИС GIRA</p>
<p>MCC - H MCC - M STS ATT ISS ATT СВЕТ/ТЕНЬ ВИТОК СУТОЧН.ВИТОК RGS CMD RGS TLM</p>	<p>NCS-N1-2-R2-ВН</p>		<p>КОНТРОЛЬ ДАВЛЕНИЯ BIAS +ZPH -XNN MPA BIAS +XPH -ZNN MPA</p>	<p>ЗАГРУЗКА R2 (N1-1)</p>	
<p>NOTES</p>	<p>♦Физ УПР @ЧАСТН РАЗГ ЧЕРЕЗ ОСА</p>				

СТ 09/12/00

РТ АЕНЬ 003



CDR T. WILCUTT	ДЕЙСТВИЯ ПОСЛЕ СНА	А К Т И В 2	ВХОД В PMA2	ВХОД В NODE 1	ВХОД В PMA1	В Ф Х Г О Б Д В	ВХОД В СМ	▲	ПРИЕМ ПИЩИ	REMOVE LAUNCH RSTRNT	▼	ПЕРЕНОС ОБОРУД	ФИЗ УПР	XFER DEWAR		
PLT S. ALTMAN	ДЕЙСТВИЯ ПОСЛЕ СНА	∇ ⊕ φ	ПОДГ К P/TV21	◇	P/TV21 ВНУТ ОП МКС	•	P/TV21 ВНУТ ОП МКС	▲	ПОВ НАДД КАБ ДО 14,7	ПРИЕМ ПИЩИ		ФИЗ УПР	PMA2 AIR VEL MEASMT	▲	ПОДГ В/МАГН	ВОСП НА В/МАГН
MS1 E. LU	ДЕЙСТВИЯ ПОСЛЕ СНА	▲	ВХОД В PMA2	ВХОД В NODE 1	ВХОД В PMA1	В Ф Х Г О Б Д В	ВХОД В СМ	▲	МОНТАЖ ПРК ВД СМ	SM FAN ACT & CAPS		ПРИЕМ ПИЩИ	XFER SM ПТАБ	ПЕРЕНОС ОБОРУД	УСТ ПТАБ-1М A301	▼ ⊕
MS2 R. MASTRACCHIO	ДЕЙСТВИЯ ПОСЛЕ СНА	▲	ПОДГ К ПЕРНОСУ СПХЭБ	φ	ФИЗ УПР	ПОДГ К ПЕРНОСУ СПХЭБ	УДАЛ СИС ТОРУ ИЗ ФГБ		RTRN TORU	ПРИЕМ ПИЩИ		112/113 STOW	ПЕРЕНОС ОБОРУД	XC FH EE RC K		
MS3 D. BURBANK	ДЕЙСТВИЯ ПОСЛЕ СНА		ФИЗ УПР	ОБЕСПЕЧ ВХОДА С EPSCS		ВХОД В ФГБ	УДАЛ СИС ТОРУ ИЗ ФГБ		RTRN TORU	ПРИЕМ ПИЩИ		• φ	CLEAR PNLS 107,108	XC FH EE RC K		
MS4 Y. MALENCHENKO	ДЕЙСТВИЯ ПОСЛЕ СНА	▲	ВХОД В PMA2	ВХОД В NODE 1	ВХОД В PMA1	В Ф Х Г О Б Д В	ВХОД В СМ	◇	У С Ш Д Т Т А М Ы Л К Р Я	ПРИЕМ ПИЩИ		РАГРЗК ТКГ ПРОГРЕСС	• ∇	УСТ ПТАБ-1М A301	ФИЗ УПР	
MS5 B. MORUKOV	ПОСЛЕ СНА - СИС GIRA	φ	ПОДГ К P/TV21		N1 / PMA2 DUCTS	⊕	ВХОД В ФГБ	◆	ПЕРЕВОД ВЛХО	МОНТАЖ ПХО ВД СМ		ПРИЕМ ПИЩИ	РАГРЗК ТКГ ПРОГРЕСС	XFER БУПТ (3)	XC FH EE RC K	

MCC-H																
MCC-M																
STS ATT			BIAS -XLV +YVV							BIAS +ZPH -XNN MPA						
ISS ATT			BIAS -ZLV -YVV							BIAS +XPH -ZNN MPA						
СВЕТ/ТЕНЬ																
ВИТОК	56	57		58	59	60		61		62		63	64			
СУТОЧН.ВИТОК	14	15		1	2	3		4		5		6	7			
RGS CMD																
RGS TLM																

NOTES

▲ГА СМ - ВКЛ

⊕БРИФ О ПЕРЕНОС
ΔМСС-М СОММ ЧЕК ОМНВР +XPH -ZNN
φБРИФ О ПЕРЕНОС
▽МАНЕВР ДЛЯ ДРЖ Н20
⊕НАЧ ДРНАЖ СТОЧН Н20
▲СГВА СК ▲ОКНЧ ДРЖ СТОЧН Н20
▲DAILY XFER BRIEF
◆NODE 1 LTS

●ОБЩ ПОВТ НАДДУВ
⊕ПРОБА ВОЗДУХА ФГБ

▲ПЕРЕВОД ВПРК
ΔПЕРЕВОД ВПРК
⊕ОСУЩ ВХОДА В ПРОГРЕС
◆ПРОБА ВОЗДУХА СМ
⊕СВ-ВЕНТ 1MV-ВКЛ φПОСЛ КОМ ЗАКР КВД
ΔВКЛ ВЕНТ ЦВ1,ЦВ2 ФГБ

◆INSTALL FMK

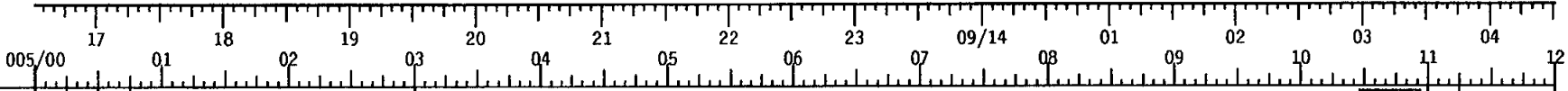
*ПРОВЕРКА ФЛТРА MCIU
▲SOAR PGSC CHECK
●УДАЛ СТЫК ШТЫРЯ ФГБ ⊕ЕЖЕДН
*УДАЛ СТЫК ШТЫРЯ ФГБ ◆SM AUDI
φFGV PROBE TEMP STOW
▽FGV PROBE TEMP STOW

8-9

FLT PLN/106/FIN 08/10/00

СТ 09/13/00

PT АЕНЬ 005



FD06										FD07	
CDR T. WILCUTT	♥ ▲ Δ	ДЕЙСТВИЯ ДО СНА				CON				DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА
PLT S. ALTMAN	φ	ДЕЙСТВИЯ ДО СНА				CON				DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА
MS1 E. LU	•	ДЕЙСТВИЯ ДО СНА				CON				DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА
MS2 R. MASTRACCHIO	∇ ◊	ДЕЙСТВИЯ ДО СНА				CON				DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА
MS3 D. BURBANK	* *	ДЕЙСТВИЯ ДО СНА				CON				DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА
MS4 Y. MALENCHENKO	Физ УПР	ДЕЙСТВИЯ ДО СНА				CON				DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА
MS5 B. MORUKOV	♦ ⊕ ⊗	ДЕЙСТ ДО СНА - GIRA				CON				DSO 493	ПОСЛЕ СНА - СИС GIRA

MCC - H	BATT. 14 CHARGE										
MCC - M											
STS ATT	BIAS +ZPH -XNN MPA										
YSS ATT	BIAS +XPH -ZNN MPA										
СВЕТ/ТЕНЬ											
ВИТОК	80	81	82	83	84	85	86	87			
СУТОЧН.ВИТОК	7	8	9	10	11	12	13	14			
RGS CMD											
RGS TLM											

NOTES

- ♥БРИФ О ПЕРЕНОС
ΔЧАСТИ РАЗГ ЧЕРЕЗ ОСА
- ▲ДЕЙСТВИЯ ДО СНА
- φБРИФ О ПЕРЕНОС
- БРИФ О ПЕРЕНОС
- ∇БРИФ О ПЕРЕНОС
- ◊БРИФ О ПЕРЕНОС
- *БРИФ О ПЕРЕНОС
- ⊕БРИФ О ПЕРЕНОС
- ⊗БРИФ О ПЕРЕНОС
- ⊙БРИФ О ПЕРЕНОС
- ⊚БРИФ С ПЕРЕНОС

CDR T. WILCUTT	ДЕЙСТВИЯ ПОСЛЕ СНА	▲	ФИЗ УПР	XFER MMP /HCF	RTRN FGB BATT 6	ПЕРЕНОС ОБОРУД	СWCS 113 TO 110	ПЕРЕНОС ОБОРУД	Δ	ПРИЕМ ПИЩИ	▼	ПЕРЕНОС ОБОРУД	XFER TVIS FAN	φ							
PLT S. ALTMAN	ДЕЙСТВИЯ ПОСЛЕ СНА	•	DB AR IL E Y F	◇	П О Д Т V 2 1	*	ФИЗ УПР	P/TV21 ВНУТ ОП MКС	П В О Д М А Г Н	ВОСП НА В/МАГН	▽	ПРИЕМ ПИЩИ	▲	◆	▼	⊙	⊕	Δ	П О Д Т V 2 1	▲	φ
MS1 E. LU	ДЕЙСТВИЯ ПОСЛЕ СНА	DB AR IL E Y F	ЗАМЕНА БАТ 6 ФГБ	МИРТ ЗРУ 6 R&R	УСТ СТ-25	ORLAN #2 RACK RMVL	•	ПРИЕМ ПИЩИ	ПЕРЕНОС ОБОРУД	ФИЗ УПР	TVIS FAN INST										
MS2 R. MASTRACCHIO	ДЕЙСТВИЯ ПОСЛЕ СНА	▽	XFER FGB BATT 6	ПЕРЕНОС ОБОРУД	ФИЗ УПР	ПЕРЕНОС ОБОРУД	ПРИЕМ ПИЩИ	ПЕРЕНОС ОБОРУД	XC FH EE RC K												
MS3 D. BURBANK	ДЕЙСТВИЯ ПОСЛЕ СНА	◇	П N C R S	ПЕРЕНОС ОБОРУД	РАГРЗК ТКГ ПРОГРЕСС	ПЕРЕНОС ОБОРУД	ПРИЕМ ПИЩИ	РАГРЗК ТКГ ПРОГРЕСС	ФИЗ УПР	ПЕРЕНОС ОБОРУД	MP EA PO OP P	EX CF HE RC K									
MS4 Y. MALENCHENKO	ДЕЙСТВИЯ ПОСЛЕ СНА	DB AR IL E Y F	ЗАМЕНА БАТ 6 ФГБ	МИРТ ЗРУ 6 R&R	УСТ СТ-25	ORLAN #2 RACK RMVL	RACK TEMP STOW	ПРИЕМ ПИЩИ	ПЕРЕНОС ОБОРУД	ФИЗ УПР											
MS5 B. MORUKOV	ПОСЛЕ СНА - СИС GIRA	DB AR IL E Y F	РАГРЗК ТКГ ПРОГРЕСС	ПРИЕМ ПИЩИ	РАГРЗК ТКГ ПРОГРЕСС	ФИЗ УПР	РАГРЗК ТКГ ПРОГРЕСС	XC FH EE RC K													

MCC-H	BATT. 6 CHARGE													
MCC-M														
STS ATT	BIAS +ZPH -XNN MPA													
ISS ATT	BIAS -XLV +YVV													
СВЕТ/ТЕНЬ	BIAS +XPH -ZNN MPA													
ВИТОК	88	89	90	91	92	93	94	95						
СУТОЧН. ВИТОК	15	1	2	3	4	5	6	7						
RGS CMD														
RGS TLM														

NOTES

▲БРИФ О ПЕРЕНОС
 •МНВР ХРН ZZN *ОКОНЧ НАПОЛНЕНИЯ СWS
 ОНАЧ НАПОЛНЕНИЯ СWS
 ▽БРИФ О ПЕРЕНОС
 ○БРИФ О ПЕРЕНОС
 *СГВА СК
 ▲FGB BATT 6 PWRDN

ΔПЕРЕНОС СWS (2) ▼ПЕРЕНОС СWS (2) ⊙SOAR PGSC CHECK
 ▽НАЧ НАПОЛНЕНИЯ СWS ⊕МАНЕВР ДЛЯ ДРНЖ Н20
 •ПЕРЕНОС ОБОРУД ▲ОКОНЧ НАПОЛНЕНИЯ СWS ΔНАЧ ДРНЖ СТОЧН Н20
 ⊕FGB BATT 6 PWRUP ◆ПРОВЕРКА ФЛТРА МС1U ▲ОКНЧ ДРНЖ СТОЧН
 ▼КОМПАКТОР АСУ ⊕МНВР ХРН -ZN

СТ 09/14/00

PT АЕНЬ 006

006/00

17 18 19 20 21 22 23 09/15 08 01 09 02 10 03 11 04 12

CDR T. WILCUTT	FD07	♦	▼	®	ДЕЙСТВИЯ ДО СНА	CON	FD08	DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА
PLT S. ALTMAN		DB AR II LE YF			ДЕЙСТВИЯ ДО СНА	CON		DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА
MS1 E. LU		DB AR II LE YF			ДЕЙСТВИЯ ДО СНА	CON		DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА
MS2 R. MASTRACCHIO		DB AR II LE YF	Δ		ДЕЙСТВИЯ ДО СНА	CON		DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА
MS3 D. BURBANK		DB AR II LE YF	▲		ДЕЙСТВИЯ ДО СНА	CON		DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА
MS4 Y. MALENCHENKO		DB AR II LE YF			ДЕЙСТВИЯ ДО СНА	CON		DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА
MS5 B. MORUKOV		DB AR II LE YF	•	♦	ДЕЙСТ ДО СНА - GIRA	CON		DSO 493	ПОСЛЕ СНА - СИС GIRA

MCC-H

MCC-M

STS ATT

ISS ATT

СВЕТ/ТЕНЬ

ВИТОК

СУТОЧН. ВИТОК

RGS CMD

RGS TLM

BATT. & CHARGE

BIAS +ZPH -XNN MPA

BIAS +XPH -ZNN MPA

♦БРИФ О ПЕРЕНОС
 @ЧАСТИ РАЗГ ЧЕРЕЗ ОСА
 ▼ДЕЙСТВИЯ ДО СНА
 ΔБРИФ О ПЕРЕНОС
 ▲БРИФ О ПЕРЕНОС
 •БРИФ О ПЕРЕНОС
 фСГВА СК
 •БРИФ О ПЕРЕНОС

NOTES

FD08 CDR T. WILCUTT	ДЕЙСТВИЯ ПОСЛЕ СНА	∇	ПЕРЕНОС ОБОРУД	ФИЗ УПР	ПЕРЕНОС ОБОРУД	ПРИЕМ ПИЩИ	ПЕРЕНОС ОБОРУД				MP EA PO OP P	
PLT S. ALTMAN	ДЕЙСТВИЯ ПОСЛЕ СНА	◆	TVIS ASSY PREP	СБОРКА БЕГОВОЙ ДОРОЖ		ПРИЕМ ПИЩИ	СБРКА ИЗОЛ/КОРП TVIS	УСТ БЕГОВОЙ ДОРОЖК	◇	⊕	*	ФИЗ УПР
MS1 E. LU	ДЕЙСТВИЯ ПОСЛЕ СНА	⊙	TVIS ASSY PREP	СБОРКА БЕГОВОЙ ДОРОЖ		ПРИЕМ ПИЩИ	СБРКА ИЗОЛ/КОРП TVIS	УСТ БЕГОВОЙ ДОРОЖК	ПЕРЕНОС ОБОРУД			MP EA PO OP P
MS2 R. MASTRACCHIO	ДЕЙСТВИЯ ПОСЛЕ СНА	▼	ПЕРЕНОС ОБОРУД		ФИЗ УПР	ПЕРЕНОС ОБОРУД	ПРИЕМ ПИЩИ	ПЕРЕНОС ОБОРУД				XC FH EE RC K
MS3 D. BURBANK	ДЕЙСТВИЯ ПОСЛЕ СНА	◆	ФИЗ УПР	POST TVIS ASSY PREP	ПЕРЕНОС ОБОРУД		ПРИЕМ ПИЩИ	ПЕРЕНОС ОБОРУД	POST CAGE ASSY	POST TVIS INSTALL	ПЕРЕНОС ОБОРУД	XC GF HE EE RC SK
MS4 Y. MALENCENKO	ДЕЙСТВИЯ ПОСЛЕ СНА	φ	RTRN HCF/ МИРТ	ПЕРЕНОС ОБОРУД			ПРИЕМ ПИЩИ	ПЕРЕНОС ОБОРУД	ФИЗ УПР	ПЕРЕНОС ОБОРУД		
MS5 B. MORUKOV	ПОСЛЕ СНА - СИС GIRA	∇	TVIS ASSY PREP	СБОРКА БЕГОВОЙ ДОРОЖ		ПРИЕМ ПИЩИ	СБРКА ИЗОЛ/КОРП TVIS	УСТ БЕГОВОЙ ДОРОЖК	ФИЗ УПР	PROGRESS STOW	XC FH EE RC K	

MCC-H											
MCC-M											
STS ATT	BIAS +ZPH -XNN MPA										
ISS ATT	BIAS +XPH -ZNN MPA										
СВЕТ/ТЕНЬ											
ВИТОК	103	104	105	106	107	108	109	110	111		
СУТОЧН.ВИТОК	15	16	1	2	3	4	5	6	7		
RGS CMD											
RGS TLM											

NOTES

*ФВП ФГБ - ВЫКЛ
 ∇БРИФ 0 ПЕРЕНОС
 ◆БРИФ 0 ПЕРЕНОС
 ⊕МНВР ХРН -ZNN
 ⊙БРИФ 0 ПЕРЕНОС
 ▼БРИФ 0 ПЕРЕНОС
 ◆БРИФ 0 ПЕРЕНОС
 φБРИФ 0 ПЕРЕНОС
 *ЗАМ КАТРАДЖ ОЧСТК ФГБ
 VCGVA СК
 ОБРИФ 0 ПЕРЕНОС 8-15

ДПРОВЕРКА ФЛТРА МС1U

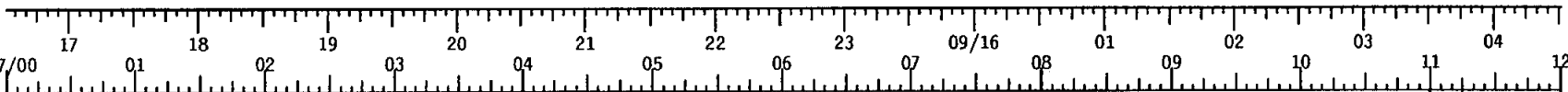
ОНАЧ НАПОЛНЕНИЯ СВС
 *ОКОНЧ НАПОЛНЕНИЯ СВС
 ⊕SOAR PGSC CHECK

FLT PLN/106/FIN 08/10/00

CT 09/15/00

PT АЕНЬ 007

007/00



FD08										FD09		
CDR T. WILCUTT	*	ДЕЙСТВИЯ ДО СНА	⊕	ДЕЙСТВИЯ ДО СНА						CON	DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА
PLT S. ALTMAN	♦			ДЕЙСТВИЯ ДО СНА						CON	DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА
MS1 E. LU	⊗			ДЕЙСТВИЯ ДО СНА						CON	DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА
MS2 R. MASTRACCHIO	▼	Δ			ДЕЙСТВИЯ ДО СНА					CON	DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА
MS3 D. BURBANK	▲	φ			ДЕЙСТВИЯ ДО СНА					CON	DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА
MS4 Y. MALENCHENKO	•			ДЕЙСТВИЯ ДО СНА						CON	DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА
MS5 B. MORUKOV	◇	*	√	ДЕЙСТ ДО СНА - GIRA						CON	DSO 493	ПОСЛЕ СНА - СИС GIRA

MCC-H										
MCC-M										
STS ATT	BIAS +ZPH -XNN MPA									
ISS ATT	BIAS +XPH -ZNN MPA									
СВЕТ/ТЕНЬ										
ВИТОК	111	112	113	114	115	116	117	118	119	
СУТОЧН. ВИТОК	7	8	9	10	11	12	13	14	15	
RGS CMD										
RGS TLM										

NOTES	*БРИФ О ПЕРЕНОС VCGVA СКЧАСТН РАЗГ ЧЕРЕЗ ОСА ♦БРИФ О ПЕРЕНОС ⊗БРИФ О ПЕРЕНОС ▼БРИФ О ПЕРЕНОС ΔБРИФ О ПЕРЕНОС ▲БРИФ О ПЕРЕНОС φБРИФ О ПЕРЕНОС •БРИФ О ПЕРЕНОС ◇БРИФ О ПЕРЕНОС *БРИФ О ПЕРЕНОС									
	8-16				FLT PLN/106/FIN			08/10/00		

CT 09/16/00 05 06 07 08 09 10 11 12 13 14 15 16 008/00
 PT АЕНЬ 007 12 13 14 15 16 17 18 19 20 21 22 23

FD09 CDR T. WILCUTT	ДЕЙСТВИЯ ПОСЛЕ СНА	⊕	ПЕРЕНОС ОБОРУД	ФИЗ УПР	*	ПЕРЕНОС ОБОРУД	ПРИЕМ ПИЩИ	ВЫХОД ИЗ СМ	ЦЫХОД ИЗ ФГБ	ВЫХОД ИЗ PMA1	ВЫХОД ИЗ NODE 1	ВЫХОД ИЗ PMA2	*	
PLT S. ALTMAN	ДЕЙСТВИЯ ПОСЛЕ СНА	◇	▲	▼	П/ТВ21 ВНУТ ОП МКС	⊗	НАЧ ПОВ НДДУВ КИСЛЯД	ПРИЕМ ПИЩИ	Р/ТВ21 ВНУТ ОП МКС	•	φ	▽	*	ФИЗ УПР
MS1 E. LU	ДЕЙСТВИЯ ПОСЛЕ СНА	*	ПЕРЕНОС ОБОРУД	ФИЗ УПР	ПЕРЕНОС ОБОРУД	ПРИЕМ ПИЩИ	♦	F D F G U R B C A T M E &	ЦЫХОД ИЗ ФГБ	PMA1 EGRESS & ISOL	NODE 1 EGRESS & ISOL	PMA2 EGRESS	⊕	
MS2/EV2 R. MASTRACCHIO	ДЕЙСТВИЯ ПОСЛЕ СНА	⊗	ПЕРЕНОС ОБОРУД			XFER VERIFY FGB/NOD	Δ	ПРИЕМ ПИЩИ	▼	ФИЗ УПР				
MS3/EV1 D. BURBANK	ДЕЙСТВИЯ ПОСЛЕ СНА	▲	ПЕРЕНОС ОБОРУД			XFER VERIFY SM	φ	ПРИЕМ ПИЩИ	Р/ТВ21 ВНУТ ОП МКС		ФИЗ УПР			
MS4 Y. MALENCHENKO	ДЕЙСТВИЯ ПОСЛЕ СНА	•	ФИЗ УПР	ОСУЩЕСТ & ПРК ВЫХОДА	ВИ Ы З Х О М	X T F O I R L E T	СМ СГО-АСУ	ПРИЕМ ПИЩИ	ВЫХОД ИЗ СМ	ЦЫХОД ИЗ ФГБ	ВЫХОД ИЗ PMA1	ВЫХОД ИЗ NODE 1	ВЫХОД ИЗ PMA2	▽
MS5 B. MORUKOV	ПОСЛЕ СНА - СИС GIRA	*	▲	PROGRESS STOW	⊗	ОСУЩЕСТ & ПРК ВЫХОДА	ВИ Ы З Х О М	ФИЗ УПР	ПРИЕМ ПИЩИ	♦	⊕	Р/ТВ21 ВНУТ ОП МКС		

MCC-H													
MCC-M													
STS ATT													
ISS ATT													
СВЕТ/ТЕНЬ													
ВИТОК	119	120	121	122	123	124	125	126	127				
СУТОЧН. ВИТОК	15	1	2	3	4	5	6	7	8				
RGS CMD													
RGS TLM													

NOTES

⊕БРИФ О ПЕРЕНОС
 ▼НАЧ НАПОЛНЕНИЯ СВС
 ▲БРИФ О ПЕРЕНОС
 ○МНВР ХРН -ZNN
 *БРИФ О ПЕРЕНОС
 ⊗БРИФ О ПЕРЕНОС
 ▲БРИФ О ПЕРЕНОС
 ●БРИФ О ПЕРЕНОС
 *CGVA СК
 ▲БРИФ О ПЕРЕНОС

▲ПЕРЕНОС СВС (2)
 ⊗КОНФИГ 1,2 С&М
 ΔДОКОНЧ НАПОЛНЕНИЯ СВС
 ⊗БРИФ О ПЕРЕНОС
 *PROG REV VEST - CL
 *PROG REV VEST - OP
 ○БМП СМ - ВЫКЛ

*SM FAN/DUCT DEACT ⊕GENERIC DEPRESS
 ΔБРИФ О ПЕРЕНОС *GENERIC DEPRESS
 φБРИФ О ПЕРЕНОС *SOAR PGSC CHECK
 ▼ПРОВЕРКА ФЛТРА МСIU
 ○ПРОБА ВОЗДУХА ФГБ
 *ПРОБА ВОЗДУХА СМ
 ▼СВ-ВЕНТ ИМВ-ВЫКЛ
 ▲ВЫК ВЕНТ ЦВ1,ЦВ2 ФГБ

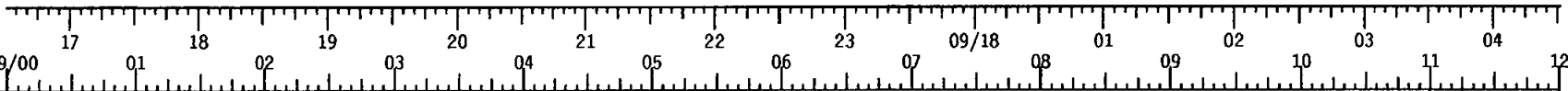
*ПОНИЖ J
 ⊕PMA2/OI
 *ПОНИЖ J
 *CGVA J
 ΔПРОСУИ NODE
 φОП С КВД ФГБ-ГА-

8-17

FLT PLN/106/FIN 08/10/00

СТ 09/17/00

РТ АЕНЬ 009



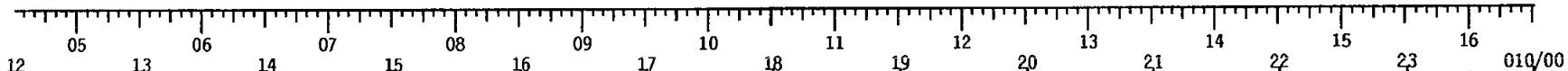
FD10 CDR T. WILCUTT	ДЕЙСТВИЯ ДО СНА		φ •	СОИ	FD11	DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА
PLT S. ALTMAN	∇	◇	ДЕЙСТВИЯ ДО СНА		СОИ	DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА
MS1 E. LU	ДЕЙСТВИЯ ДО СНА		+	ДЕЙСТВИЯ ДО СНА	СОИ	DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА
MS2 R. MASTRACCHIO	ДЕЙСТВИЯ ДО СНА		+	ДЕЙСТВИЯ ДО СНА	СОИ	DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА
MS3 D. BURBANK	ФМЗ УПР	⊕	ДЕЙСТВИЯ ДО СНА		СОИ	DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА
MS4 Y. MALENCHENKO	♦	ДЕЙСТВИЯ ДО СНА			СОИ	DSO 493	ДЕЙСТВИЯ ПОСЛЕ СНА
MS5 B. MORUKOV	⊗	Δ	▼	ДЕЙСТ ДО СНА - GIRA	СОИ	DSO 493	ПОСЛЕ СНА - СИС GIRA

MCC-H															
MCC-M															
STS ATT	BIAS -ZPH -XNN							BIAS +ZLV -XVV							
ISS ATT	TEA (+XVV)														
СВЕТ/ТЕНЬ															
ВИТОК	143	144	145	146	147	148	149	150							
СУТОЧН.ВИТОК	8	9	10	11	12	13	14	15							
RGS CMD															
RGS TLM															

NOTES	<p>VMAGR СК φЧАСТН РАЗГ ЧЕРЕЗ ОСА</p> <p>○ЧАСТН РАЗГ ЧЕРЕЗ ОСА ●ЧАСТН РАЗГ ЧЕРЕЗ ОСА</p> <p>⊗CGVA СК *ЧАСТН РАЗГ ЧЕРЕЗ ОСА</p> <p>ΔДЕЙСТВИЯ ДО СНА ♦ЧАСТН РАЗГ ЧЕРЕЗ ОСА</p> <p>⊕ЧАСТН РАЗГ ЧЕРЕЗ ОСА</p> <p>♦ЧАСТН РАЗГ ЧЕРЕЗ ОСА</p> <p>▼ЧАСТН РАЗГ ЧЕРЕЗ ОСА</p>														
	8-20					FLT PLN/106/FIN					08/10/00				

СТ 09/18/00

РТ АЕНЬ 009



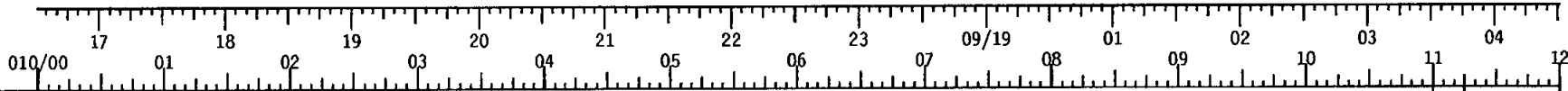
CDR T. WILCUTT	ДЕЙСТВИЯ ПОСЛЕ СНА		ПРОВ СИСТ УПР ПОЛЕТМ	MSHOBAP	ХРАН В КАБИНЕ	▲	КОНФ ЭКИПАЖА	ПРИЕМ ПИЩИ	φ	▲	ОПЕР С СИСТ PILOT	MSHOBAP	ФИЗ УПР	* ◇	M+AZHSIEI M-AZHLVEV	ХРАН В КАБИНЕ			
PLT S. ALTMAN	ДЕЙСТВИЯ ПОСЛЕ СНА	ДЕЙСТВИЯ ПОСЛЕ СНА	ПРОВ СИСТ УПР ПОЛЕТМ	▽	ХРАН В КАБИНЕ	GZP SRA OKZ	ДП (S TSV) VVO	▼	КОНФ ЭКИПАЖА	ПРИЕМ ПИЩИ	Δ	ПОДГ СИСТ PILOT	•	ФИЗ УПР	ОЧИСТКА ФИЛЬТРА	ДЕ АКТИВ И ХРАН SOAR	φ	ХРАН В КАБИНЕ	▲
MS1 E. LU	ДЕЙСТВИЯ ПОСЛЕ СНА		ФИЗ УПР	ХРАН СПХЭБ		⊗ ⊕	◇	КОНФ ЭКИПАЖА	ПРИЕМ ПИЩИ	*	ХРАН В КАБИНЕ	ПОД К СПУС ПОСЛЕ ВКД	ХРАН В КАБИНЕ	ДЕМОНТ МОД СПХЭБ	▲	▲			
MS2 R. MASTRACCHIO	ДЕЙСТВИЯ ПОСЛЕ СНА		ХРАН СПХЭБ	ФИЗ УПР	ХРАН СПХЭБ	Δ	КОНФ ЭКИПАЖА	ПРИЕМ ПИЩИ	▲	▼	ХРАН В КАБИНЕ	•	ХРАН В КАБИНЕ		ДЕМОНТ МОД СПХЭБ	ХРАН В КАБИНЕ	φ		
MS3 D. BURBANK	ДЕЙСТВИЯ ПОСЛЕ СНА		ПРОВ СИСТ УПР ПОЛЕТМ	▲	ХРАН В КАБИНЕ		▽	КОНФ ЭКИПАЖА	ПРИЕМ ПИЩИ	◇	ХРАН В КАБИНЕ	ПОД К СПУС ПОСЛЕ ВКД	ХРАН В КАБИНЕ	ФИЗ УПР		*			
MS4 Y. MALENCHENKO	ДЕЙСТВИЯ ПОСЛЕ СНА		ХРАН СПХЭБ				⊕	КОНФ ЭКИПАЖА	ПРИЕМ ПИЩИ	◆	ФИЗ УПР	ПОД К СПУС ПОСЛЕ ВКД	ХРАН В КАБИНЕ						
MS5 B. MORUKOV	ПОСЛЕ СНА - СИСТ GIRA		ХРАН СПХЭБ	ФИЗ УПР	Δ	КОНФ ЭКИПАЖА	ПРИЕМ ПИЩИ	▲	ХРАН В КАБИНЕ				•	H2O TANK CFG	ХРАН В КАБИНЕ	φ			

MCC-H																
MCC-M																
STS ATT	BIAS +ZLV -XVV															
ISS ATT	+ZLV -XVV															
СВЕТ/ТЕНЬ	TEA (+XVV)															
ВИТОК	151	152	153	154	155	156	157	158								
СУТОЧН. ВИТОК	1	2	3	4	5	6	7	8								
RGS CMD																
RGS TLM																

NOTES	<ul style="list-style-type: none"> •DAP A6/B1 ⊗ВКЛ НАГРЕВ АРУ ▼CGBA СК 	<ul style="list-style-type: none"> ▲ПРОБНОЕ ВКЛ РСУ ▼МНВР ДЛЯ ЗАГР SOAR ▽ПРОБНОЕ ВКЛ РСУ ▲ПРОБНОЕ ВКЛ РСУ 	<ul style="list-style-type: none"> ▲СЪЕМКА ЭКИПАЖА ▼СЪЕМКА ЭКИПАЖА ○СЪЕМКА ЭКИПАЖА ⊕ПОДГ К Р/TV04 (РАО) ⊗ПРОВРКА SOAR МКС ▲СЪЕМКА ЭКИПАЖА ▼СЪЕМКА ЭКИПАЖА ○СЪЕМКА ЭКИПАЖА ▲СЪЕМКА ЭКИПАЖА 	<ul style="list-style-type: none"> ФБРИФИНГ П/ПОСАДКОЙ ▲ПРОВ СВЯЗИ П/ПОСАДК ΔБРИФИНГ П/ПОСАДКОЙ •ОПЕР С СИСТ PILOT *БРИФИНГ П/ПОСАДКОЙ ▼ПРОВЕРКА ТРАКТА СВЯЗИ ▲БРИФИНГ П/ПОСАДКОЙ •ОПЕР С СИСТ PILOT ○БРИФИНГ П/ПОСАДКОЙ ▲БРИФИНГ П/ПОСАДКОЙ ▲БРИФИНГ П/ПОСАДКОЙ 	<ul style="list-style-type: none"> ○КАЛ ВЕРХ ПАНЕЛИ ГРИБ *МНАНЕВР ПО HUD ▲МКRО I ▲ПОД К ВД (▲ВКЛ НА *ВКЛ МОД ⊗CGBA СК ▲ПРОБА ВОДЫ НА КУХНЕ
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CT 09/18/00

PT АЕНЬ 010



<p>FD11 CDR T. WILCUTT</p>	<p>ДЕЙСТВИЯ ДО СНА</p>	<p>CON</p>	<p>FD12 DSO 493 ДЕЙСТВИЯ ПОСЛЕ СНА</p>
<p>PLT S. ALTMAN</p>	<p>ДЕЙСТВИЯ ДО СНА</p>	<p>CON</p>	<p>DSO 493 ДЕЙСТВИЯ ПОСЛЕ СНА</p>
<p>MS1 E. LU</p>	<p>ДЕЙСТВИЯ ДО СНА</p>	<p>CON</p>	<p>DSO 493 ДЕЙСТВИЯ ПОСЛЕ СНА</p>
<p>MS2 R. MASTRACCHIO</p>	<p>ДЕЙСТВИЯ ДО СНА</p>	<p>CON</p>	<p>DSO 493 ДЕЙСТВИЯ ПОСЛЕ СНА</p>
<p>MS3 D. BURBANK</p>	<p>ДЕЙСТВИЯ ДО СНА</p>	<p>CON</p>	<p>DSO 493 ДЕЙСТВИЯ ПОСЛЕ СНА</p>
<p>MS4 Y. MALENCZENKO</p>	<p>ДЕЙСТВИЯ ДО СНА</p>	<p>CON</p>	<p>DSO 493 ДЕЙСТВИЯ ПОСЛЕ СНА</p>
<p>MS5 B. MORUKOV</p>	<p>ДЕЙСТ ДО СНА - GIRA</p>	<p>CON</p>	<p>DSO 493 ПОСЛЕ СНА - СИС GIRA</p>

MCC-H								
MCC-M								
STS ATT	+ZSI							
ISS ATT	TEA (+XVV)							
СВЕТ/ТЕНЬ	-ZLV -XVV							
ВИТОК	159	160	161	162	163	164	165	166
СУТОЧН. ВИТОК	9	10	11	12	13	14	15	16
RGS CMD								
RGS TLM								

NOTES

УКОНФДЕНЦ МЕД БРТ/ЗМЛ
MICRO WIS DEACT

8-22

FLT PLN/106/FIN 08/10/00

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FLIGHT PLAN NOTES

FLIGHT PLAN
NOTES

**FLIGHT PLAN NOTES
(CONSTRAINTS AND GUIDELINES)**

A. FLIGHT DESCRIPTION

Orbiter: OV104/Atlantis
 Launch Window: 10 min
 Inclination: 51.6°
 Insertion Altitude: 136/173 nm
 Duration: 11 + (1)* + 2 days

*Energy dependent day

B. MAJOR EVENTS

<u>MAJOR EVENT</u>	<u>MET</u>	<u>CENTRAL</u>	<u>GMT</u>	<u>DMT</u>	<u>ΔV fps</u>	<u>HP/HA</u>
Launch	0/00:00	Fri 09/08/00 07:31	252/12:31	Fri 09/08/00 15:31	--	—/—
OMS2	0/00:44	Fri 09/08/00 08:15	252/13:15	Fri 09/08/00 16:15	172.4	136/173
NC1	0/03:45	Fri 09/08/00 11:16	252/16:16	Fri 09/08/00 19:16	58.6	169/173
NC2	0/16:12	Fri 09/08/00 23:43	253/04:43	Sat 09/09/00 07:43	22.0	171/182
NPC	0/19:22	Sat 09/09/00 02:54	253/07:54	Sat 09/09/00 10:54	1.0	171/182
NC3	0/23:01	Sat 09/09/00 06:32	253/11:32	Sat 09/09/00 14:32	3.0	172/182
NH	1/12:00	Sat 09/09/00 19:31	254/00:31	Sun 09/10/00 03:31	0.0	172/183
NC4	1/12:46	Sat 09/09/00 20:17	254/01:17	Sun 09/10/00 04:17	11.1	179/183
TI	1/14:17	Sat 09/09/00 21:48	254/02:48	Sun 09/10/00 05:48	8.9	182/184
Docking	1/17:09	Sun 09/10/00 00:40	254/05:40	Sun 09/10/00 08:40	--	181/185
EVA Start	2/16:20	Sun 09/10/00 23:51	255/04:51	Mon 09/11/00 07:51	--	--
ISS Ingress	3/14:15	Mon 09/11/00 21:46	255/02:46	Tue 09/12/00 05:46	--	--
ISS Egress	7/18:30	Sat 09/16/00 02:01	260/07:01	Sat 09/16/00 10:01	--	--
Undock	8/14:59	Sat 09/16/00 22:30	261/03:30	Sun 09/17/00 06:30	--	--
Final Sep	8/16:48	Sun 09/17/00 00:40	261/05:40	Sun 09/17/00 08:40	3.0	180/85
Deorbit Tg	10/19:14	Wed 09/19/00 02:45	264/07:45	Wed 09/19/00 10:45	TBD	--
KSC Landing	10/20:14	Wed 09/19/00 03:45	264/08:45	Wed 09/19/00 11:45	--	--

C. LANDING OPPORTUNITIES

		<u>Landing Orbit No.</u>	<u>Site</u>	<u>Local Time</u>	<u>MET</u>
Nominal	Primary	172	KSC	4:45	10/20:14
	1 Rev Late	173	EDW	3:15	10/21:44
	Weather Alt	174	EDW	4:50	10/23:19
EOM+1	Primary	187	KSC	3:31	11/19:00
	1 Rev Late	188	KSC	5:06	11/20:35
	Weather Alt	189	EDW	3:36	11/22:05
EOM+2	Primary	203	KSC	3:52	12/19:21
	1 Rev Late	204	EDW	2:23	12/20:52
	Weather Alt	205	EDW	3:58	12/22:27

**FLIGHT PLAN
NOTES**

D. CREW

CDR – Terrence W. (Terry) Wilcutt (Colonel, USMC)
PLT (B/U RMS) – Scott D. (Scooter) Altman (Commander, USN)
MS1 (EV1) – Edward T. (Ed) Lu (Ph.D.)
MS2 (RMS) – Richard A. (Rick) Mastracchio
MS3 (B/U EV, IV) – Daniel C. (Dan) Burbank (Lt. Commander, USCG)
MS4 (EV2) – Yuri I. Malenchenko (Colonel, Russian Air Force)
MS5 – Boris V. Morukov (M.D., Ph.D.)

E. COMMUNICATIONS

Shuttle

TDRS Support: East (47° W), West (171° W), Z (85° E)
Ground Sites*: MIL, GDA, GDS, and WLP
Contingency RTS: DGS, GTS, HTS, MIL, BDA, OTS, VTS, and NHS

*Lead time for site callup – GSTDN – 2 hr

International Space Station (ISS) Early Communication Systems (ECS)

TDRS Support: East (41°W), West (174°W), Z (85°E)

F. PAYLOADS

1. LAUNCH PACKAGE (LP) 2A.2B

The LP flown on Mission ISS–2A.2B consists of a Spacehab Double Module Logistics Carrier, the Integrated Cargo Carrier (ICC), two Assembly Power Converter Units (APCUs), ISS Maintenance Spares, United States (US) and Russian Logistic supplies, Extravehicular Activity (EVA) support hardware, Spacehab Oceanering Space System (SHOSS) box, and Space Integrated Global Positioning System (GPS) Inertial Navigation System (INS) (SIGI) Orbital Attitude Readiness (SOAR) test. The Return Compliment consists of the APCUs, Spacehab Double Module Logistics Carrier, ICC, TOPY components, FGB battery components, and SM charging components.

During the docked mission, US and Russian logistics equipment will be transferred to/from the ISS and some equipment will be installed. One EVA will be performed to install FGB/SM power cables, install the foot restraint and magnetometer extension pole on the SM, and reinstall the magnetometer unit to the distal end of the pole and dispose the cover on the shuttle.

2. SPACE EXPERIMENT MODULE (SEM–08)

The SEM is a self–contained Get Away Special (GAS) canister with data sampling and storage devices and harnesses. The SEM flight project is one of several educational initiatives being pursued by the NASA Shuttle Small Payloads Project (SSPP) to increase educational access to space by means of Space Shuttle Small Payloads and associated activities. Twelve different schools across the US are participating.

3. COMMERCIAL GENERIC BIOPROCESSING APPARATUS CONFIGURATION E

This is a Middeck Experiment that contains one GBA–ICM unit, which is a self–contained incubation and refrigeration module unit is used to stow and process several types of experiments in microgravity. The GBA–ICM housing is a lightweight aluminum/insulation clad structure. The front portion of the housing contains the electronics, thermal, and crew interface subsystems. The rear portion of the unit is the isolated, temperature–controlled portion that houses the

experiment sample containers. Each GBA-ICM can be fitted with an internal light source. The fluid cooling/heating loops embedded between the aluminum casing and foam insulation are used to maintain accurate preset temperatures. The experimental sample assemblies in the GBA-ICM are automatically initiated and terminated at preprogrammed times throughout the mission.

4. GET AWAY SPECIAL CANISTER G-782

The GAS payload G-782 is managed by Washington University in St. Louis, Missouri. The G-782 payload will fly 38 passive experiments provided by different schools in the St. Louis area. Each experiment flown will be compared to identical material kept on the ground. The objective is to determine the effects of the space environment on the flight materials and allow students involved to explore science in a hands-on fashion. This experiment is completely passive and does not require any power or crew interaction.

G. DETAILED TEST OBJECTIVES (DTO)

1. SINGLE STRING GLOBAL POSITIONING SYSTEM WITH PGSC AND GPS OPERATION OPTION (DTO 700-14)

On-orbit operations are subject to energy availability and will demonstrate the performance and operations of the GPS during orbiter ascent, on-orbit operations, entry, and landing phases utilizing a modified military GPS receiver processor and the existing orbiter GPS antennas.

2. SPACE INTEGRATED GLOBAL POSITIONING SYSTEM (GPS)/INERTIAL NAVIGATION SYSTEM (INS) (SIGI) ORBITAL READINESS (SOAR) TEST

The SOAR payload tests the capability of SIGI to perform attitude determination in preparation for use on ISS and the Crew Return Vehicle (CRV). Maneuvers will be performed to simulate ISS and CRV attitudes.

H. DETAILED SUPPLEMENTAL OBJECTIVES (DSO)

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

DSO 493 will be used to determine the frequency of induced reactivation of latent viruses, latent virus shedding, and clinical disease after exposure to the physical, physiological, and psychological stressors associated with space flight.

CUE CARD CONFIGURATION

CUE CARD
CONFIGURATION

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STS-106 DAP A1 THROUGH A8 CONFIGURATIONS

	ITEM #	A1	A2	A3	A4	A5	A6	A7	A8
PRI									
ROT RATE	10(50)	0.2000	0.4000	0.2000	0.5000	0.2000	0.2000	0.2000	0.0500
ATT DB	11(51)	5.00	1.00	1.00	3.00	5.00	5.00	2.00	2.00
RATE DB	12(52)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
ROT PLS	13(53)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
COMP	14(54)	.000	.000	.000	.000	.000	.000	.000	.000
P OPTION	15(55)	ALL	ALL	ALL	ALL	ALL	TAIL	ALL	ALL
Y OPTION	16(56)	ALL	ALL	TAIL	ALL	ALL	TAIL	ALL	ALL
TRAN PLS	17(57)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
ALT									
RATE DB	18(58)	0.200	0.200	0.200	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	2	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	0.2000	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		LOSS OF VERN (NOSE & TAIL)	FWD PROP SAVINGS	RNDZ	TERMINAL PHASE

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

FLT PLN-1a/106/O/A

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'STS 106 DAP A1 THROUGH A8 CONFIGURATIONS'

HINGE

STS-106 DAP B1 THROUGH B8 CONFIGURATIONS

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

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

FLT PLN-1aa/106/O/B



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BACK OF 'STS-106 DAP A1 THROUGH A8 CONFIGURATIONS'

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STS-106 DAP A9 THROUGH A14 CONFIGURATIONS

	ITEM #	A9	A10	A11	A12	A13	A14
PRI							
ROT RATE	10(50)	0.1300	0.0500	0.1000	0.1000	0.0500	0.2000
ATT DB	11(51)	1.00	0.50	5.00	5.00	1.00	15.00
RATE DB	12(52)	0.10	0.10	0.20	0.20	0.10	0.20
ROT PLS	13(53)	0.10	0.10	0.04	0.04	0.10	0.10
COMP	14(54)	.000	.000	.000	.000	.000	.000
P OPTION	15(55)	TAIL	TAIL	TAIL	TAIL	TAIL	TAIL
Y OPTION	16(56)	TAIL	TAIL	TAIL	TAIL	TAIL	TAIL
TRAN PLS	17(57)	0.05	0.05	0.01	0.01	0.05	0.10
ALT							
RATE DB	18(58)	0.100	0.100	0.070	0.070	0.200	0.070
JET OPT	19(59)	TAIL	TAIL	TAIL	TAIL	ALL	TAIL
# JETS	20(60)	2	2	1	2	2	1
ON TIME	21(61)	0.08	0.08	0.08	0.08	0.08	0.08
DELAY	22(62)	0.00	0.00	12.00	12.00	0.00	0.00
VERN							
ROT RATE	23(63)	0.1300	0.0500	0.1000	0.1000	0.0500	0.0500
ATT DB	24(64)	1.000	0.500	3.000	3.000	1.000	15.000
RATE DB	25(65)	.020	.020	.080	.080	.020	.020
ROT PLS	26(66)	0.050	0.050	0.002	0.002	0.050	0.010
COMP	27(67)	.000	.000	.000	.000	.000	.000
CNTL ACC	28(68)	0	0	2	2	0	0
PURPOSE		PROX OPS (FLY AROUND)	DOCKING	MATED STACK (MNVR & HOLD) ²	MATED STACK (MNVR & HOLD) ¹	FAILED CAPTURE	SOAR FWD PROP SAVINGS

BOLD-ITALIC indicate a change from the I-load

¹VERN - MNVR and Attitude Hold, ALT - Attitude Hold Only

²VERN - MNVR and Attitude Hold, ALT - Attitude Hold Only, w/FWD PROP savings

FLT PLN-1b/106/O/B |

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 'STS-106 DAP A9 THROUGH A14 CONFIGURATIONS'

HINGE

STS-106 DAP B9 THROUGH B14 CONFIGURATIONS

	ITEM #	B9	B10	B11	B12	B13	B14
PRI							
ROT RATE	30(50)	0.1300	0.0500	0.0500	0.1000	0.0500	0.5000
ATT DB	31(51)	1.00	0.50	40.00	5.00	1.00	15.00
RATE DB	32(52)	0.10	0.10	5.00	0.20	0.10	0.20
ROT PLS	33(53)	0.04	0.04	0.04	0.04	0.04	0.04
COMP	34(54)	.000	.000	.000	.000	.000	.000
P OPTION	35(55)	TAIL	TAIL	ALL	TAIL	TAIL	ALL
Y OPTION	36(56)	TAIL	TAIL	ALL	TAIL	TAIL	ALL
TRAN PLS	37(57)	0.01	0.01	0.22	0.01	0.01	0.10
ALT							
RATE DB	38(58)	0.100	0.100	0.200	0.070	0.200	0.200
JET OPT	39(59)	TAIL	TAIL	ALL	TAIL	ALL	ALL
# JETS	40(60)	2	2	2	3	2	2
ON TIME	41(61)	0.08	0.08	0.08	0.08	0.08	0.08
DELAY	42(62)	0.00	0.00	12.00	12.00	0.00	0.00
VERN							
ROT RATE	43(63)	0.1300	0.0500	0.1000	0.1000	0.0500	0.2000
ATT DB	44(64)	1.000	0.500	5.000	3.000	1.000	15.000
RATE DB	45(65)	.020	.020	.200	.080	.020	.020
ROT PLS	46(66)	0.020	0.020	0.020	0.002	0.020	0.002
COMP	47(67)	.000	.000	.000	.000	.000	.000
CNTL ACC	48(68)	0	0	3	2	0	0
PURPOSE		PROX OPS (FLY AROUND)	DOCKING	REBOOST OF MATED STACK	MATED STACK (MNVR & HOLD) ¹	FAILED CAPTURE	SOAR

Note: **BOLD-ITALIC** indicate a change from l-load or prior flight DAP configuration

¹VERN - MNVR and Attitude Hold, ALT - Attitude Hold Only

FLT PLN-1bb/106/O/B

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FLIGHT DATA FILE
Distribution
106 FLT PLN FSP FIN

** JSC **

AP3/NAVIAS, R. (2)
CB/BROWN, C.L. (7)
CB/CHIEF, ASTRONAUT OFF.
DA2/STONE, B.R.
DF22/DPS FDF REP (4)
DF24/INCO FDF REP (6)
DF25/LEAD ODIN (2)
DF5/MMACS LEAD OFFICER (3)
DF53/OSO LIBRARY MGR. (2)
DF62/GNC GROUP LEAD (3)
DF63/PROP GROUP LEAD (3)
DF64/LEAD ADCO (2)
DF73/ELEC SYS GROUP LEAD (2)
DF73/LEAD EGIL
DF73/SYSTEMS LIBRARY
DF74/PHALCON LIBRARY
DF82/EECOM (5)
DF83/ECLSS (3)
DM2/FLIGHT DESIGN MANAGER
DM21/HALVORSON, P.C.
DM3/LEAD TOPO
DM32/ORBIT FDO GROUP LEAD (3)
DM43/DM CONSOLE LIBRARY (2)
DM46/ENTRY FDO
DO13/HOUSTON SUPPORT GROUP (3)
DO35/LAWS, L.A.
DO353/FDF MNGR/RESERVE (15)
DO4/BOOK MANAGER FLT PLN (10)
DO4/FAO TEAM (15)
DO4/POINTING (4)
DO4/NUTE, R.H. (1)
DO53/CAVALLARO, J.H.
DO54/HASBROOK, A.
DT32/TEAM LEAD
DT34/CONTROL PROP (3)
DT35/DPS/NAV TRAIN LEAD (4)
DT36/SHUTTLE SYSTEMS (2)
DT36/SPENCER, J.
DT37/CARGO SYSTEMS (3)
DT37/SHUTTLE COMMUNICATIONS (2)
DX22/ROBOTICS SECTION (2)
DX25/RMS TRAINING GROUP (2)
DX32/EVA (4)
DX34/BOOK MANAGER P/TV (2)
GP23/STIC (3)
MER/30 LIBRARY

MT3/BANKS, W.R.
MT3/MANAGER (3)
OM/CONSOLE SUPPORT (2)
SD24/SURGEON (2)
ZR1/USAF TECHNICAL LIBRARY (3)

** JSC OFFSITE **

LOCKHEED-MARTIN-HOUSTON
C102/STEPHENS, K.
C33/CHU, J.
C70/KEENER, J.F.

BOEING-HOUSTON
13100 SPACE CENTER BLVD.
HOUSTON, TX 77059
HS-22/FLIGHT/STAGE MANAGER
HS-22/OPERATIONS LEAD

BOEING-HOUSTON
ZC01/BATTLE, H.H.

** POUCH MAIL **

NASA GRC
333-1/TUTTLE, K.L.

UNITED SPACE ALLIANCE-HOUSTON
633L/PROJECT OFFICE LIBRARY (3)
USH-422D/LIBRARY, PROPULS. SYS
USH-423E/PROX OPS LIBRARY
USH-423E/TRAJECTORY LIBRARY
USH-423H/NAVIGATION LIBRARY (2)
USH-482L/MISSION ENGINEER
USH-485L/KOCEN, M.
USH-626L/TRAVLOS, J.A.
USH-636X/SAIL/GN&C
USH423-E/RENDEZVOUS LIBRARY
ZC01/DISTEFANO, F.J.
ZC01/JENKINS, L.W.
ZC01/KAGAWA, R.
ZC20/MEREDITH, M.

BNA-DOWNEY
841-2, AC85/TAYLOR, B.N.
AA10/BUIS, A.
AA05/WOOLHOUSE, D.L.
AC28/HARPER, L.
AD60/MC MILLAN, B.J.
AD75/STS DATA MGMT
AE 70/JAIMES, A.J.
AE85/BRYON, K.
FB13/INGRAM, K.
FB14/ITO, J.K.
FB75/MC DERMOTT, W.A.
FC94/GOOSSENS, M.H.
FC94/IMPASTATO, J.
FC95/FRIEND, R.

NASA GSFC
530/MORSE, G.

NASA HEADQUARTERS
ME/PERRY, C.F. (2)
ME/POSEY, G.
MZD/MILLER, H.
PM/MC CULLA, J.W.
UO/DOARN, C.
US/ZWIERKO, R.

NASA KSC
AB-F1/GRINTER, K.
F264/LINTEREUR, P.
FA-31/MCBREARTY, J.C.
FF-S-A/CREW QUARTERS
KSC/KSC TECH LIBRARY-D
PZ-L/WEAVER, C.
USK-215/KELLY, T.E.
USK-550/VITT OFFICE

NASA MSFC
NASA--MSFC
DOCUMENTATION REPOSITORY
BUILDING 4491
MAIL CODE AD33D
MSFC, AL 35812
ATO1D/TECH DOC REPOSITORY
CA10/BERG, J.
EL23/JOHNSON, DALE
EO52/CHIEF DATA MGMT
FD34/ETOV LEAD
NTI/MARSHAL OPERATIONS
