Space Shuttle Program
FLIGHT DATA FILE

JSC-48000-130

Flight Plan

STS-130/20A

(FDO 12+1+2 OCF Trajectory)

Mission Operations Directorate
Operations Division

Basic
October 2, 2009

Launch Date: Thursday, February 4, 2010
Launch Time: 035/11:26:19 GMT
February 4, 06:26:19 EDT

For the latest working copy of the Flight Plan, visit
http://modspops.jsc.nasa.gov/mod/DO/DO4/Joint/130_20A/default.aspx

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas

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

MISSION OPERATIONS DIRECTORATE

FLIGHT PLAN
STS-130

BASIC
October 2, 2009

PREPARED BY:

Mark Blanton
Book Manager, Lead FAO

Gail Hansen
Lead Timeliner

Sarah Toschlog
Lead Ops Planner

Chris Rasnick
Lead RPE

Alex Rigas
Lead Pointer

APPROVED BY:

Douglas Bristol
Flight Planning Group

Scott A. Curtis
Chief, Flight Planning Branch

Peter J. Beauregard
Chief, Operations Division

(Deferred until Final)
Paul S. Hill
Director of Operations

This document is under the configuration control of the Crew Procedures Control Board (CPCB). All proposed changes must be submitted via Change Request Workflow (CRW) to DO3/FDF Manager.

Additional distribution of this book, for official use only, may be requested in writing to DO3/PMO Administrator. The request must include justification and requester's name, organization, position, and phone number. Contractor requests are made through the NASA or DOD organization supported. Deletions, reduction in quantity, or change of address may be submitted to DO3/FDF Management Office, 281-244-1184.

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STS-130

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Incorporates the following:
482#: FLT PLN-02077

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Lead RPE	DO4/C. Rasnick	281-244-5716

FLIGHT PLAN
STS-130

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* – Omit from flight book

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INTRODUCTION

The STS-130 Flight Plan is the Flight Data File article that contains the on-orbit timeline. It does not contain the detailed timelines that are covered in the Ascent, Post Insertion, Deorbit Prep, and Entry Checklists. The detailed rendezvous and undocking timelines and procedures are contained in the Rendezvous Checklist. The detailed EVA task timelines and procedures are contained in the EVA Checklist.

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

NSTS-07700 Vol III, Flight Definition and Requirements Document
NSTS-17462-130, STS-130 Flight Requirements Document
NSTS-37326, Shuttle Crew Scheduling Constraints
NSTS-21549, ISS-20A Mission Integration Plan

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

The STS-130 Flight Plan is based on a launch date of February 4, 2010, at 11:26:19 GMT (05:26:19 AM CDT). Orbiter inertial attitudes are expressed relative to a mean of 1950 (M50) reference frame.

The following SCSC Exceptions have been submitted in order to meet Category 1 objectives:

None

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

http://modspops.jsc.nasa.gov/mod/DO/DO4/Joint/130_20A/default.aspx

Non-flown sections that are no longer published:

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

OVERVIEW TIMELINE

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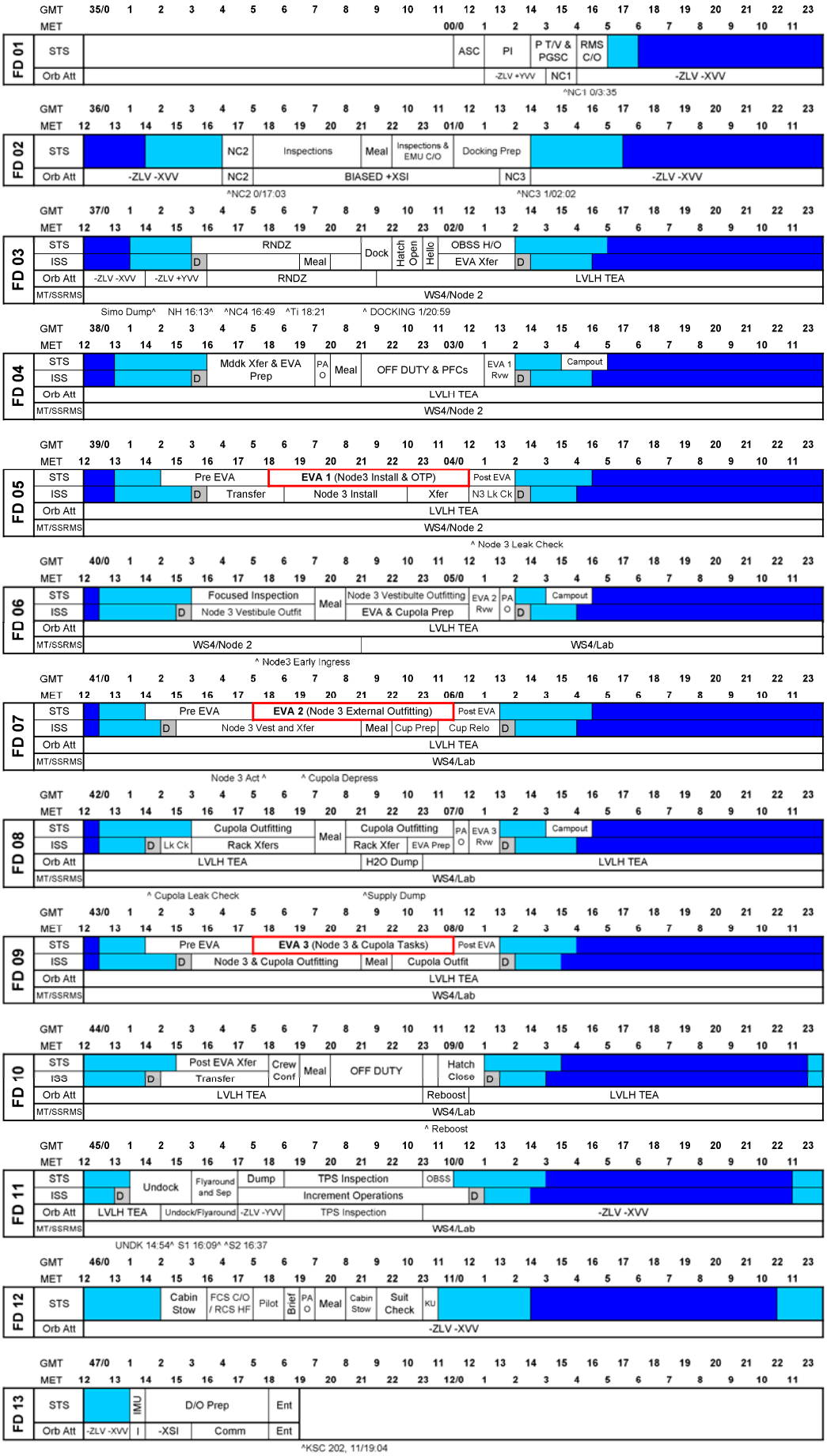
STS-130/20A Overview Timeline 12+1+2 (3 EVAs)

GMTLO 035/11:26:19 Feb 4th, 2010



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SUMMARY TIMELINE

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FD01

GMT 02/04/10 (035) 12 13 14 15 16 17 18 19 20 21 22 23

MET Day 000 000/00 01 02 03 04 05 06 07 08 09 10 11 12

MNVR

STS-130	CDR ZAMKA	ASCENT	POST INSERTION	RMS*	MCIU#	LOAD	APS	IMU	NC1Δ OMS BURN	-ZLV	-XVV	GRPB	PWRDN	AFT C/O	ELV PRK	APU*	PRE SLEEP	PMC A/G	PRE SLEEP	WATCH	SLEEP			
	PLT VIRTS	ASCENT	POST INSERTION	P/TV01 VIDEO SETUP					OMS BURN	P/TV01	S/U	GRPB	PWRDN	APCU	ACT	ETH	EVIDL VIDEO	PRE SLEEP		WATCH	SLEEP			
	MS1 HIRE	ASCENT	POST INSERTION	P/TV01 VIDEO SETUP								RMS	POWERUP	RMS C/O				RMS#	PRE SLEEP		SLEEP			
	MS2 ROBINSON	ASCENT	POST INSERTION	PGSC SETUP												WLES ACT	UMB WELL D/L		ETPHOTO	PRE SLEEP	SLEEP			
	MS3 PATRICK	ASCENT	POST INSERTION	RMS*	OCAC	SETUP	GIRA INSTALL					RMS	POWERUP	RMS C/O				RMS#	PRE SLEEP	WATCH	SLEEP			
	MS4 BEHNKEN	ASCENT	POST INSERTION	PGSC SETUP						NLP VACP	ACT 1	NCLS	ACTLS 1		TEPCON		SEE SETUP		MDKCK	PRE SLEEP	SLEEP			

STS

DAY/NIGHT

ORBIT 2 3 4 5 6 7 8 9

TDRS W E Z

ORB ATT ASC BIAS -ZLV +YVV NC1 -ZLV -XVV

NOTES

*ON-ORBIT INIT
#FILTER CK
*RECONFIG
#POWERDOWN

ASSUMPTIONS:

1. SSRMS Pre-launch C/O @ L-48hrs (MT @ WS4 with SSRMS on NODE 2 in Docking Position)
2. ISS SAFER C/Os completed.
3. ISS EMUs temp stowed in Node.
4. CBCS installed on NODE 1 Port Hatch Window to prepare for NODE 3 INSTL.

FD02

GMT 02/04/10 (035)

MET Day 000

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

12 13 14 15 16 17 18 19 20 21 22 23 001/00

STS-130	CDR ZAMKA	SLEEP; LOG; POST SLEEP; IMU#; MCIU; GRPB; PWRUP; NC2Δ OMS BURN; -ZLV; -XVV; GRPB; PWRDN; PO2D-*; FCPRG@; WS2-T; O2SB-I; OMS POD SURV; MNVR; STBD; STBD WING SURVEY (R3); MNVR; NOSE; NOSE CAP SURVEY (R1); PORT; WING; MEAL; -ZLV; -XVV; EXERCISE
	PLT VIRTS	SLEEP; LOG; POST SLEEP; APCU2*; GRPB; PWRUP; OMS BURN; GRPB; PWRDN; FCPRG^; CRYO O2 SNSR CK; MIDDECK XFER PREP; MEAL; NOSE CAP SURVEY (R3); MNVR; PORT; PORT WING SURVEY (R1); OBSS BERTH
	MS1 HIRE	SLEEP; POST SLEEP; OBSS UNBERTH; STBD WING SURVEY (R1); MEAL; PORT WING SURVEY (R2); OBSS BERTH
	MS2 ROBINSON	SLEEP; POST SLEEP; PGSC SETUP (PART II); EXERCISE; MEAL; NOSE CAP SURVEY (R2); PORT WING SURVEY (R3); EMU*; PORT WING SURVEY (R3); EMU PREP FOR XFER
	MS3 PATRICK	SLEEP; LOG; POST SLEEP; ERG SETUP; OBSS UNBERTH; STBD WING SURVEY (R2); MEAL; EMU C/O PREP; EMU C/O; EMU PREP FOR XFER
	MS4 BEHNKEN	SLEEP; POST SLEEP; MDDK CK; ERG SETUP; EXERCISE; H2O CWC SETUP; GALLEY*; EMU DRNK BAG FILL; GALLEY*; MEAL; EMU C/O PREP; EMU C/O; EMU PREP FOR XFER
STS	DAY/NIGHT	
	ORBIT	9 10 11 12 13 14 15 16 17
	TDRS W E Z	
	ORB ATT	-ZLV -XVV; NC2; -ZLV -XVV; STBD SURVEY; NOSE SURVEY; PORT SURVEY
	NOTES	#FILTER CK; @CNTLR SWAP; *A POD HTR RCNFG; ^MANUAL; *DISABLE PWR TO OBSS; *OVERNIGHT CONFIG; *MORNING CONFIG; *POWERUP & COMM CHECK

FD02

GMT 02/05/10 (036)

MET Day 001

		001/00 – 12	12 – 24	24 – 36	36 – 48	48 – 60	60 – 72	72 – 84	84 – 96	96 – 108	108 – 120	120 – 132	132 – 144	144 – 156	156 – 168	168 – 180	180 – 192	192 – 204	204 – 216	216 – 228	228 – 240	240 – 252	252 – 264	264 – 276	276 – 288	288 – 300	300 – 312	312 – 324	324 – 336	336 – 348	348 – 360	360 – 372	372 – 384	384 – 396	396 – 408	408 – 420	420 – 432	432 – 444	444 – 456	456 – 468	468 – 480	480 – 492	492 – 504	504 – 516	516 – 528	528 – 540	540 – 552	552 – 564	564 – 576	576 – 588	588 – 600	600 – 612
STS-130	CDR ZAMKA	EXER CISE	FILTER CLEANING		NC3Δ +X RCS BURN	-ZLV	-XVV	FUTMVR	PRE SLEEP	FDCONF	PMC A/G	PRE SLEEP	SLEEP																																					
STS-130	PLT VIRTS	OBSS BERTH	EXERCISE		APCU2*	+X RCS BURN	FCMS OPS	PRE SLEEP	SLEEP																																									
STS-130	MS1 HIRE	OBSS BERTH	RNDZ TOOLS C/O		EXERCISE			PRE SLEEP	CREW CHOICE D/L	PRE SLEEP	SLEEP																																							
STS-130	MS2 ROBINSON	EMU PREP FOR XFER	WLES	RNDZ TOOLS C/O		LDRI DOWNLINK		PRE SLEEP	OCA*	PRE SLEEP	SLEEP																																									
STS-130	MS3 PATRICK	EMU PREP FOR XFER		C/L CMR INSTL	DOCKING	REXTNG	EXERCISE		PRE SLEEP	SLEEP																																									
STS-130	MS4 BEHNKEN	EMU PREP FOR XFER		C/L CMR INSTL	DOCKING	REXTNG		MDDKCK	PRE SLEEP	SLEEP																																									
STS	DAY/NIGHT																																																			
STS	ORBIT	17				18						19						20						21						22						23						24						25				
STS	TDRS W																																																			
STS	TDRS E																																																			
STS	TDRS Z																																																			
STS	ORB ATT	-ZLV -XVV				NC3																																														
NOTES		*REACT FOR N3 HTRS																																																		

*D/L RATE 48M PL MAX

FD03

GMT 02/05/10 (036) — 02/06 — 01 — 02 — 03 — 04 — 05 — 06 — 07 — 08 — 09 — 10 — 11 — 002/00

MET Day 001 — 12 — 13 — 14 — 15 — 16 — 17 — 18 — 19 — 20 — 21 — 22 — 23

STS-130

CDR ZAMKA	SLEEP	LOG	MNVR^ POST SLEEP	MICMU#	GRPB	PWRUP	NHΔ NC4Δ TiΔ ISS RNDZ OPS	ΔRPM APPROACH T/L		MNVR TEA	GRPB	PWRDN	ATTH/O*	HATCH OPEN	WELCOME	SAFETY	BRIEF	POST DOCK EVA XFER		
PLT VIRTS	SLEEP	LOG	POST SLEEP	POD*	GRPB	PWRUP	ISS RNDZ OPS	APPROACH T/L	DOCKING*	DAUDIO	GRPB	PWRDN	SSV-2	HATCH OPEN	WELCOME	SAFETY	BRIEF	SRMS	MNVR	SSPTS	VSERIF
MS1 HIRE	SLEEP		POST SLEEP	XFER UPDATE			ISS RNDZ OPS	APPROACH T/L		HATCH LEAK CK	ODS PREP FOR INGR			HATCH OPEN	WELCOME	SAFETY	BRIEF	SRMS	MNVR		
MS2 ROBINSON	SLEEP		POST SLEEP	SIMO INIT	POST SLEEP	SIMO TERM	POST SLEEP	002-I	002A-T*	EXERCISE	ISS RNDZ OPS	APPROACH T/L		HATCH LEAK CK	POST RNDZ PGSC CNFG	WLES	PCS S/U	WELCOME	SAFETY	BRIEF	POST DOCK EVA XFER
MS3 PATRICK	SLEEP	LOG	POST SLEEP				EXERCISE		EMU REMOVAL	P/TV02 S/U	P/TV02 DOCK OPS			P/TV04 S/U	ODS PREP FOR INGR	P/TV04 OPS INGR/EGR		WELCOME	SAFETY	BRIEF	SMNVRMS*
MS4 BEHNKEN	SLEEP		POST SLEEP			MDKCK	COND CWC S/U		EXERCISE	EMU REMOVAL		APPROACH T/L			POST RNDZ PGSC CNFG		PCS S/U	WELCOME	SAFETY	BRIEF	POST DOCK EVA XFER

STS

DAY/NIGHT

ORBIT: 25 — 26 — 27 — 28 — 29 — 30 — 31 — 32

TDRS W E Z

ORB ATT: -ZLV -XVV — -ZLV +YVV — RNDZ — DK — BIAS -XLV -ZVV

ISS

TDRS AVAIL

SSRMS POS

NOTES

#FILTER CK *D/L RATE 2M *B POD HTR RCNFG

*TO ISS *TO OBSS

***DOCKING 01/20:59**

FD03

GMT 02/05/10 (036)

MET Day 001

02/06 12 13 01 14 02 15 03 16 04 17 05 18 06 19 07 20 08 21 09 22 10 23 11 002/00

ISS TDRS AVAIL

EXP 22

WILLIAMS ISS CDR	SLEEP	REACT	POST SLEEP	PW	DPC	CEVIS	ARED	P/TV RPM VRFY S/U	MEAL	PREP	8 POMM	PHOTO	RPMDL	DOCKING®	♣⊕	DAUDIO CK	HATCH OPEN	WELCOME	SAFETY	
SURAEV FE-1	SLEEP	POST SLEEP	PW	DPC	PW	TVIS	HYG	VELO	MEAL	DOCKING®	RS OPS	WELCOME	SAFETY	RS OPS
KOTOV FE-4	SLEEP	POST SLEEP	PW	DPC	PW	VELO	RS OPS	P/TV RPM VRFY S/U	MEAL	PREP	4 POMM	PHOTO	DOCKING®	TVIS	HYG	WELCOME	SAFETY	RS OPS
NOGUCHI FE-5	SLEEP	REACT	POST SLEEP	PW	DPC	PW	♦	T2	MEAL	TIMER	TIMER	VIDEO CK	DOCKING®	CEVIS	HATCH OPEN	WELCOME	SAFETY	
CREAMER FE-6	SLEEP	REACT	POST SLEEP	PW	DPC	PW	T2	CEVIS	DCP*	IMMN^	MEAL	DOCKING*	HATCH LEAK CK - ISS	CAMD	HDSU	HATCH OPEN	WELCOME	SAFETY	PVAD	SSRMS	MNVR*

STS

DAY/NIGHT

ORBIT 25 26 27 28 29 30 31 32

TDRS W E Z

ORB ATT -ZLV -XVV -ZLV +YVV RNDZ DK BIAS -XLV -ZVV

ISS SSRMS POS

NOTES

♦JPM/LAB-SHUTTER-CL

*CABLE CONNECT

^SALIVA SETUP

♣C&T-DK SM ПА 3-CNFG

⊕N2 XFER INIT

®ACS-PMA2-ARVL-THRSTR

***DOCKING 01/20:59**

*TO OBSS

NO EXERCISE
[WHILE DOUBLE GRAPPLED]

FD03
GMT 02/06/10 (037)
MET Day 002

12 13 14 15 16 17 18 19 20 21 22 23
002/00 01 02 03 04 05 06 07 08 09 10 11 12

STS-130

CDR ZAMKA	MDDK XFER	
	N2 XFER INIT	
	EXERCISE	
	PRE SLEEP	
	FDCONF	
	PMC A/G	
	PRE SLEEP	
	SLEEP	
PLT VIRTS	OPCU#	
	MRL RLS	
	GRPL	
	MNVR TO	
	N3 INST	
	PRE SLEEP	
	SLEEP	
MS1 HIRE	MRL RLS	
	GRPL	
	MNVR TO	
	N3 INST	
	PRE	
	SLEEP	
	XFER	
	TAGUP	
	XFER	
	BRIEF	
	CREW CHOICE D/L	
	PRE SLEEP	
	SLEEP	
MS2 ROBINSON	GLCR	
	P/TV09	
	P/TV05	
	SETUP	
	SODFR	
	XFER	
	PLAY BACK	
	MDDK XFER	
	PRE SLEEP	
	SLEEP	
MS3 PATRICK	GRPL	
	SSRMS	
	OBSS UNBERTH	
	UNGRPL & MNVR	
	E_LK PREP	
	REBA*	
	REBA C/O	
	PRE SLEEP	
	SLEEP	
MS4 BEHNKEN	SMP XFR RVW	
	GLCR MLF 20A SMP XFR	
	NLP VAC	
	TERM 1	
	NLP	
	CELS	
	TERM 1	
	MDDK CK	
	E_LK PREP	
	REBA*	
	REBA C/O	
	PRE SLEEP	
	SLEEP	

STS

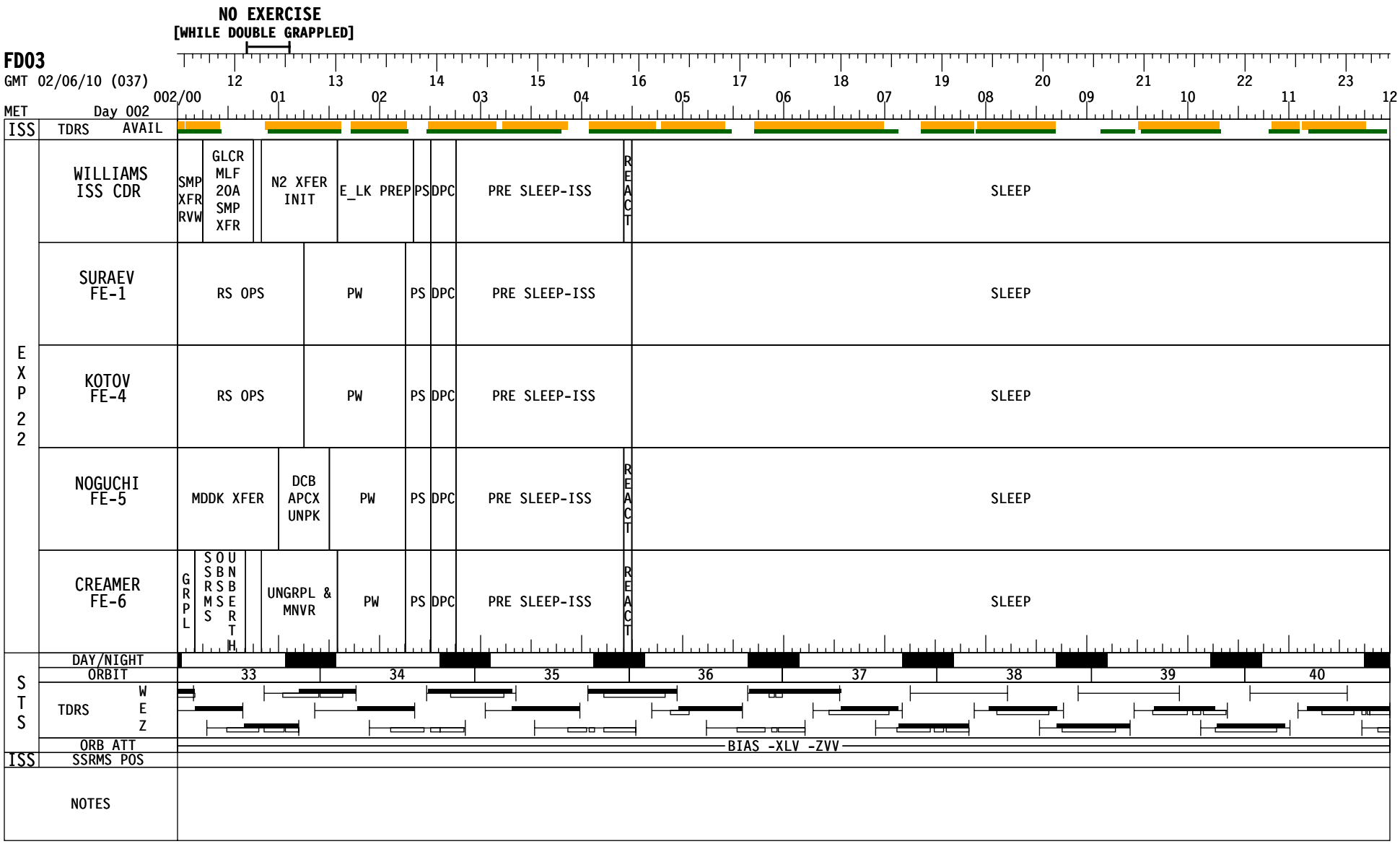
DAY/NIGHT	
ORBIT	33 34 35 36 37 38 39 40
TDRS W	
TDRS E	
TDRS Z	
ORB ATT	BIAS -XLV -ZVV

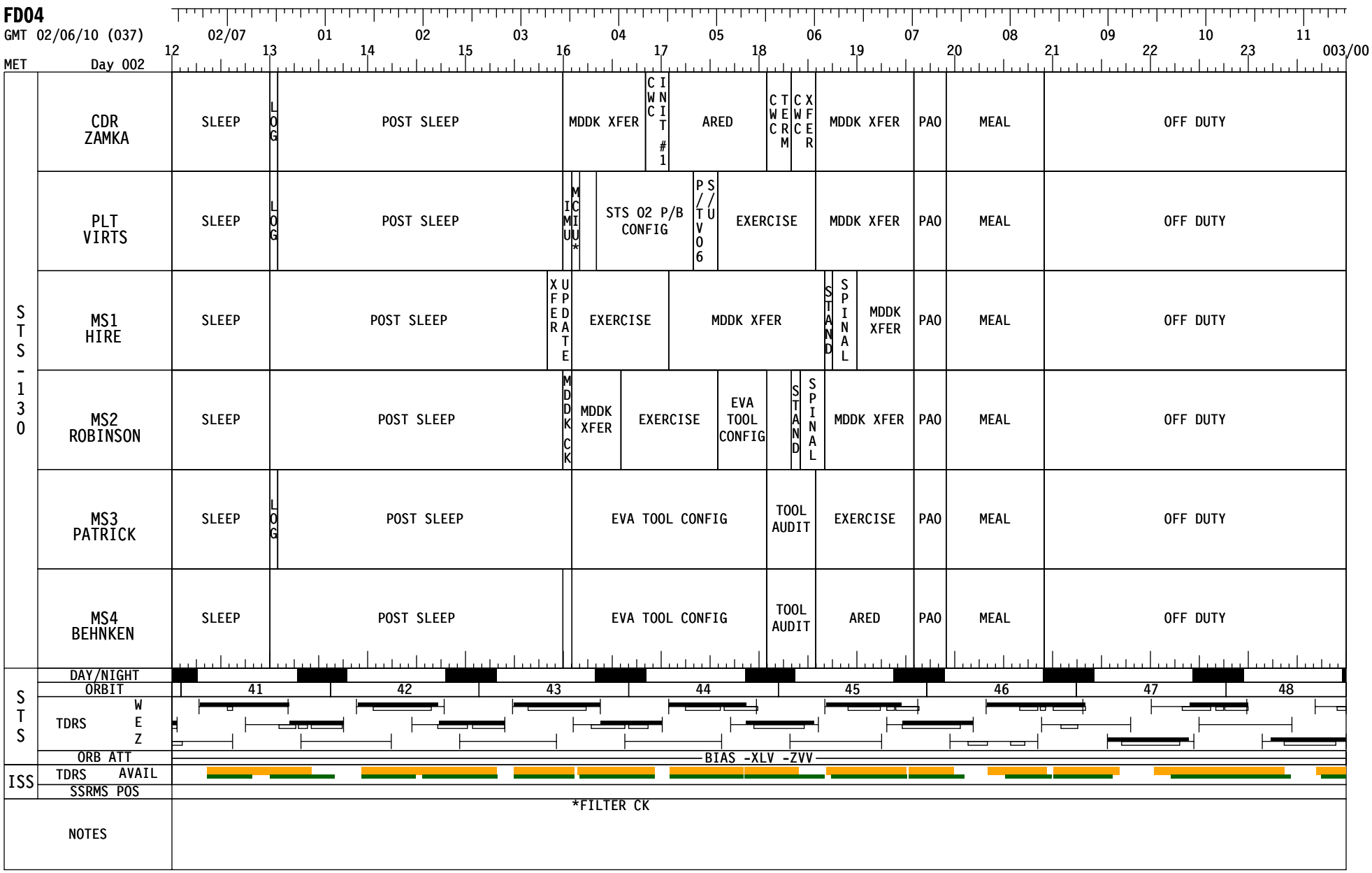
ISS

TDRS AVAIL	
SSRMS POS	

NOTES

#ACT *INSTALL


NO EXERCISE
[WHILE DOUBLE GRAPPLED]
FD03
GMT 02/06/10 (037)
MET Day 002
002/00 12 01 13 02 14 03 15 04 16 05 17 06 18 07 19 08 20 09 21 10 22 11 23 12
ISS TDRS AVAIL
EXP 22
WILLIAMS ISS CDR
SMP XFR RVW
GLCR MLF 20A SMP XFR
N2 XFER INIT
E_LK PREP
PS
DPC
PRE SLEEP-ISS
REACT
SLEEP
SURAEV FE-1
RS OPS
PW
PS
DPC
PRE SLEEP-ISS
SLEEP
KOTOV FE-4
RS OPS
PW
PS
DPC
PRE SLEEP-ISS
SLEEP
NOGUCHI FE-5
MDDK XFER
DCB APCX UNPK
PW
PS
DPC
PRE SLEEP-ISS
REACT
SLEEP
CREAMER FE-6
GRPL
SSRMS
OBSS
UNBERTH
UNGRPL & MNVR
PW
PS
DPC
PRE SLEEP-ISS
REACT
SLEEP
STS
DAY/NIGHT
ORBIT
33 34 35 36 37 38 39 40
TDRS W E Z
ORB ATT
BIAS -XLV -ZVV
ISS SSRMS POS
NOTES


FD04
GMT 02/06/10 (037)
MET Day 002
02/07 01 02 03 04 05 06 07 08 09 10 11
12 13 14 15 16 17 18 19 20 21 22 23 003/00
STS-130
CDR ZAMKA
SLEEP
LOG
POST SLEEP
MDDK XFER
CWC INIT #1
ARED
CWC TERM
CWC XFER
MDDK XFER
PAO
MEAL
OFF DUTY
PLT VIRTS
SLEEP
LOG
POST SLEEP
IMU
MCIU*
STS 02 P/B CONFIG
P/TV06 S/U
EXERCISE
MDDK XFER
PAO
MEAL
OFF DUTY
MS1 HIRE
SLEEP
POST SLEEP
XFER UPDATE
EXERCISE
MDDK XFER
STAND
SPINAL
MDDK XFER
PAO
MEAL
OFF DUTY
MS2 ROBINSON
SLEEP
POST SLEEP
MDDK CK
MDDK XFER
EXERCISE
EVA TOOL CONFIG
STAND
SPINAL
MDDK XFER
PAO
MEAL
OFF DUTY
MS3 PATRICK
SLEEP
LOG
POST SLEEP
EVA TOOL CONFIG
TOOL AUDIT
EXERCISE
PAO
MEAL
OFF DUTY
MS4 BEHNKEN
SLEEP
POST SLEEP
EVA TOOL CONFIG
TOOL AUDIT
ARED
PAO
MEAL
OFF DUTY
STS
DAY/NIGHT
ORBIT
41 42 43 44 45 46 47 48
TDRS W E Z
ORB ATT
BIAS -XLV -ZVV
ISS
TDRS AVAIL
SSRMS POS
NOTES
*FILTER CK

FD04

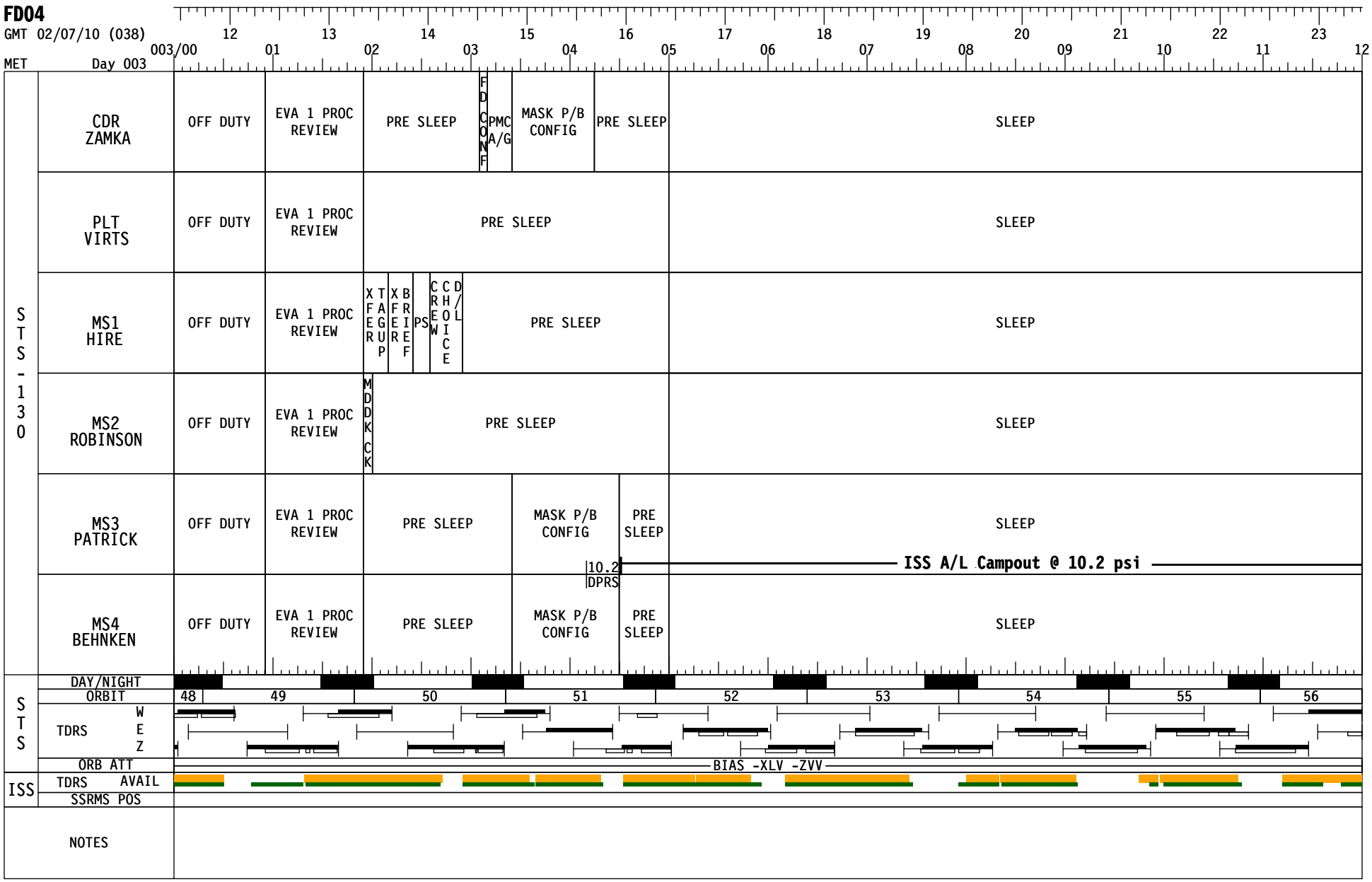
GMT 02/06/10 (037)

MET Day 002

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

12 13 14 15 16 17 18 19 20 21 22 23 003/00

ISS	TDRS	AVAIL
EXP 22	WILLIAMS ISS CDR	SLEEP; BISP; POST SLEEP; PW; DPC; SPINAL S/U; STAND*; STS 02 P/B CONFIG; STAND; SPINAL; SPINAL DATA CLCT OPR; SPINAL; H/W; STOW; HD SU; PAO; PAO; MEAL; OFF DUTY; T2; ARED
	SURAEV FE-1	SLEEP; POST SLEEP; PW; DPC; RS OPS; TVIS; HYG; MEAL; OFF DUTY; VELO
	KOTOV FE-4	SLEEP; POST SLEEP; PW; DPC; RS OPS; VELO; MEAL; OFF DUTY; TVIS
	NOGUCHI FE-5	SLEEP; BISP; POST SLEEP; PW; DPC; T2; EVA CAMERA CNFG; SPNL DATA CLCT OPR; STAND; SPINAL; MDDK XFER; MEAL; OFF DUTY; ARED; OFF DUTY
	CREAMER FE-6	SLEEP; SALVA; POST SLEEP; PW; DPC; ABRS REINIT; PHOTO; TAGES; REPLNT; MWA SU; CAMBIUM LOOP REPLNT2; STAND; SPINAL; ARED; PAO; MEAL; OFF DUTY; T2
STS	DAY/NIGHT	
	ORBIT	41 42 43 44 45 46 47 48
	TDRS W E Z	
	ORB ATT	BIAS -XLV -ZVV
ISS	SSRMS POS	
	NOTES	*S/U


FD04
GMT 02/07/10 (038)
MET Day 003
003/00 01 02 03 04 05 06 07 08 09 10 11 12
12 13 14 15 16 17 18 19 20 21 22 23
STS-130
CDR ZAMKA
OFF DUTY
EVA 1 PROC REVIEW
PRE SLEEP
FDCONF
PMC A/G
MASK P/B CONFIG
PRE SLEEP
SLEEP
PLT VIRTS
OFF DUTY
EVA 1 PROC REVIEW
PRE SLEEP
SLEEP
MS1 HIRE
OFF DUTY
EVA 1 PROC REVIEW
XFER
TAGUP
XFER
BREF
PS
CREW
CHOICE
D/L
PRE SLEEP
SLEEP
MS2 ROBINSON
OFF DUTY
EVA 1 PROC REVIEW
MDKCK
PRE SLEEP
SLEEP
MS3 PATRICK
OFF DUTY
EVA 1 PROC REVIEW
PRE SLEEP
MASK P/B CONFIG
PRE SLEEP
SLEEP
10.2
DPRS
ISS A/L Campout @ 10.2 psi
MS4 BEHNKEN
OFF DUTY
EVA 1 PROC REVIEW
PRE SLEEP
MASK P/B CONFIG
PRE SLEEP
SLEEP
STS
DAY/NIGHT
ORBIT
48 49 50 51 52 53 54 55 56
TDRS W E Z
ORB ATT
BIAS -XLV -ZVV
ISS
TDRS AVAIL
SSRMS POS
NOTES

FD04

GMT 02/07/10 (038)

MET Day 003

ISS	TDRS AVAIL									
EXP 22	WILLIAMS ISS CDR	ARED	EVA 1 PROC REVIEW	PW	DPC	PRE SLEEP-ISS	♣	PRE SLEEP-ISS	SLEEP	
	SURAEV FE-1	VELO	EVA 1 PROC REVIEW	PW	DPC	PRE SLEEP-ISS			SLEEP	
	KOTOV FE-4	TVIS / HYG	EVA 1 PROC REVIEW	PW	DPC	PRE SLEEP-ISS			SLEEP	
	NOGUCHI FE-5	OFF DUTY	EVA 1 PROC REVIEW	PW	DPC	PRE SLEEP-ISS			SLEEP	
	CREAMER FE-6	T2	EVA 1 PROC REVIEW	PW / HAM	DPC	PRE SLEEP-ISS			SLEEP	
STS	DAY/NIGHT									
	ORBIT	48	49	50	51	52	53	54	55	56
	TDRS W E Z									
	ORB ATT	BIAS -XLV -ZVV								
ISS	SSRMS POS									
	NOTES	♣MASK P/B CONFIG								

NO EXERCISE
[FROM UNBRTH & INSTL UNTIL A-BOLTS COMPLETE]

FD05
GMT 02/07/10 (038)
MET Day 003

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

STS-130	CDR ZAMKA	SLEEP; LOG; POST SLEEP; PMC A/G; HYG BRK/ HATCH CLS; CAMPOUT EVA PREP; EMU PURGE; EMU PREBREATHE; C_LK DPRS; PDS; N2-I; P/TV07 EVA OPS; PRLA*; N2-T; P/TV07 EVA OPS; MEAL; CWC; INIT #2; ARED; CWC TERM; CWC XFER ♣
	PLT VIRTS	SLEEP; LOG; POST SLEEP; IMU INHBT; PAD P/TV07; EVAS/U; ARED; MDDK XFER; NODE 3 GRPL; NODE 3 UNBRTH INSTL; NODE3 UNBRTH; INSTL; LIMP; BRACKEH; MEAL; MDDK XFER
	MS1 HIRE	SLEEP; POST SLEEP; XFER; UPDATE; EXERCISE; CBCS*; NODE 3 LK CK S/U; NODE3 VACCESS; MDDK XFER; NODE 3 GRPL; NODE 3 UNBRTH INSTL; VERFY3; NODE3 UNBRTH; INSTL; 1ST STG CAP; LIMP; 2ND STG CAP; BRACKSE^; CBCS*; MEAL; MDDK XFER
	MS2 ROBINSON	SLEEP; POST SLEEP; MDDKCK; EXERCISE; EVA TOOL CHECK; MDDK XFER; PDS; IVA SUPPORT; EVA 1 (6:30)
	MS3 PATRICK EV2	SLEEP; POST SLEEP; HYG BRK/PREBREATHE (14.7 RPRS, 10.2 DPRS); CAMPOUT EVA PREP; EMU PURGE; EMU PREBREATHE; C_LK DPRS; PDS; EVA EGRS/ SETUP; NODE 3 PREP UNBERTH; NH3 BAG OPS; OTP EARLY REMOVAL; LTA CABLE INSTL; GETAHEAD ⊕
	MS4 BEHNKEN EV1	SLEEP; POST SLEEP; HYG BRK/PREBREATHE; CAMPOUT EVA PREP; EMU PURGE; EMU PREBREATHE; C_LK DPRS; PDS; EVA EGRS/ SETUP; NODE 3 PREP UNBERTH; NH3 BAG OPS; OTP EARLY REMOVAL; AVIONICS CABLE INSTL; GETAHEAD ♦

STS: DAY/NIGHT; ORBIT 56 57 58 59 60 61 62 63 64; TDRS W E Z; ORB ATT BIAS -XLV -ZVV

ISS: TDRS AVAIL; SSRMS POS

NOTES: *POWER UP; *OPEN; ^POWERDOWN; ♣P/TV07 EV; ⊕CLNUP & I; ♦CLNUP & I; *TEMP STOW

NO EXERCISE
[FROM UNBRTH & INSTL UNTIL A-BOLTS COMPLETE]

FD05
GMT 02/07/10 (038)

MET Day 003

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

ISS TDRS AVAIL

EXP 22

WILLIAMS ISS CDR	SLEEP	POST SLEEP	HYG BRK/PREBREATHE	CAMPOUT EVA PREP	EMU PURGE	EMU PREBREATHE	C_LK DPRS	PDPS	CEVIS	MEAL	VERFY	1ST STG CAP	2ND STG CAP		ARED
SURAEV FE-1	SLEEP	POST SLEEP	PW	DPC	RS OPS	TVIS	HYG	VELO	MEAL	RS OPS					
KOTOV FE-4	SLEEP	POST SLEEP	PW	DPC	RS OPS	VELO	TVIS	HYG	MEAL	RS OPS					
NOGUCHI FE-5	SLEEP	POST SLEEP	TEST	PW	♣DPC	ARED	MDDK XFER		MEAL	NSINS^	DCBCK	MDDK XFER	GLOVE	MDDK XFER	
CREAMER FE-6	SLEEP	POST SLEEP	HYG BRK/PREBREATHE	CAMPOUT EVA PREP	EMU PURGE	EMU PREBREATHE	C_LK DPRS	PDPS	ARED	MEAL					CEVIS

STS

DAY/NIGHT

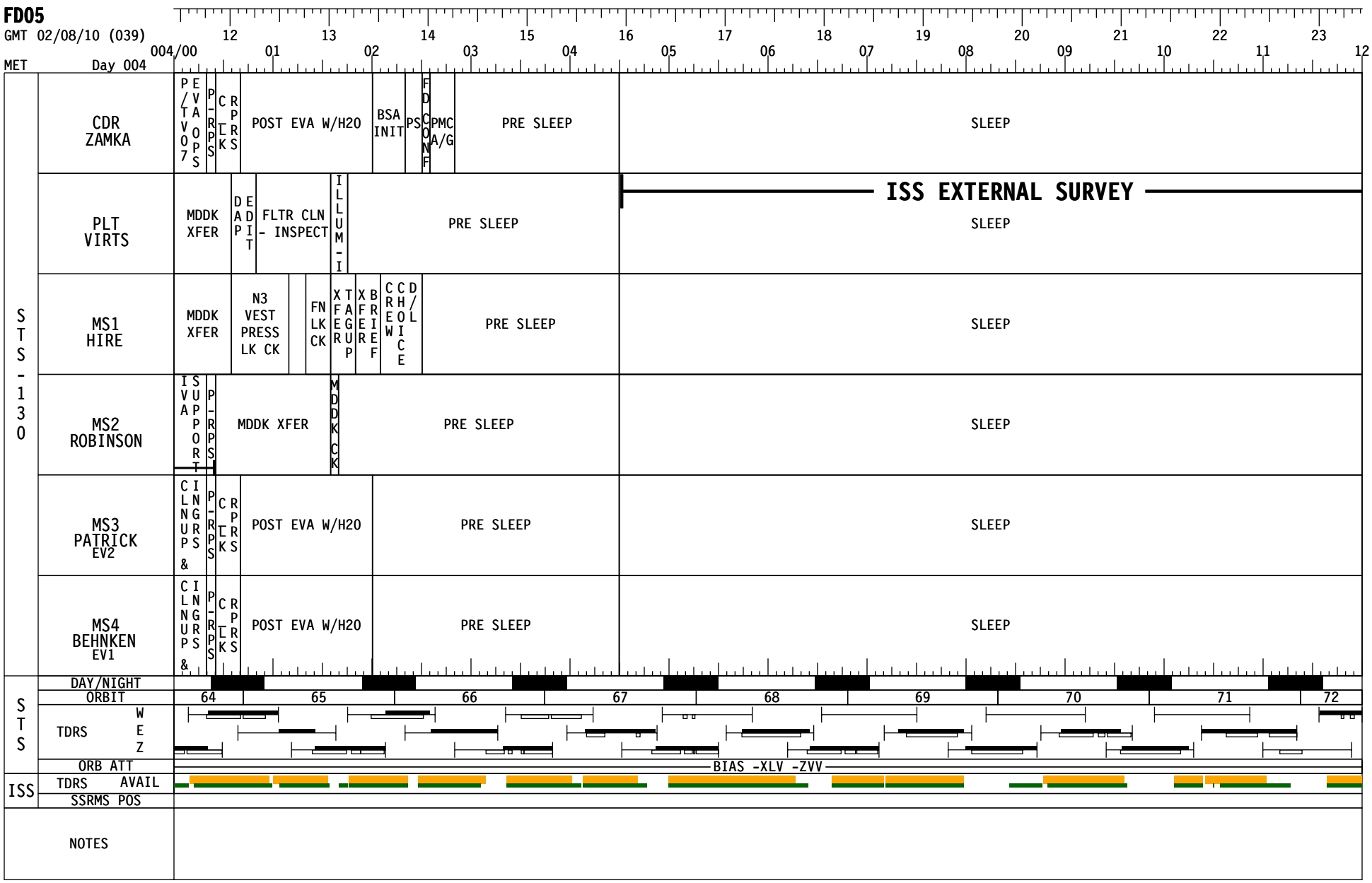
ORBIT 56 57 58 59 60 61 62 63 64

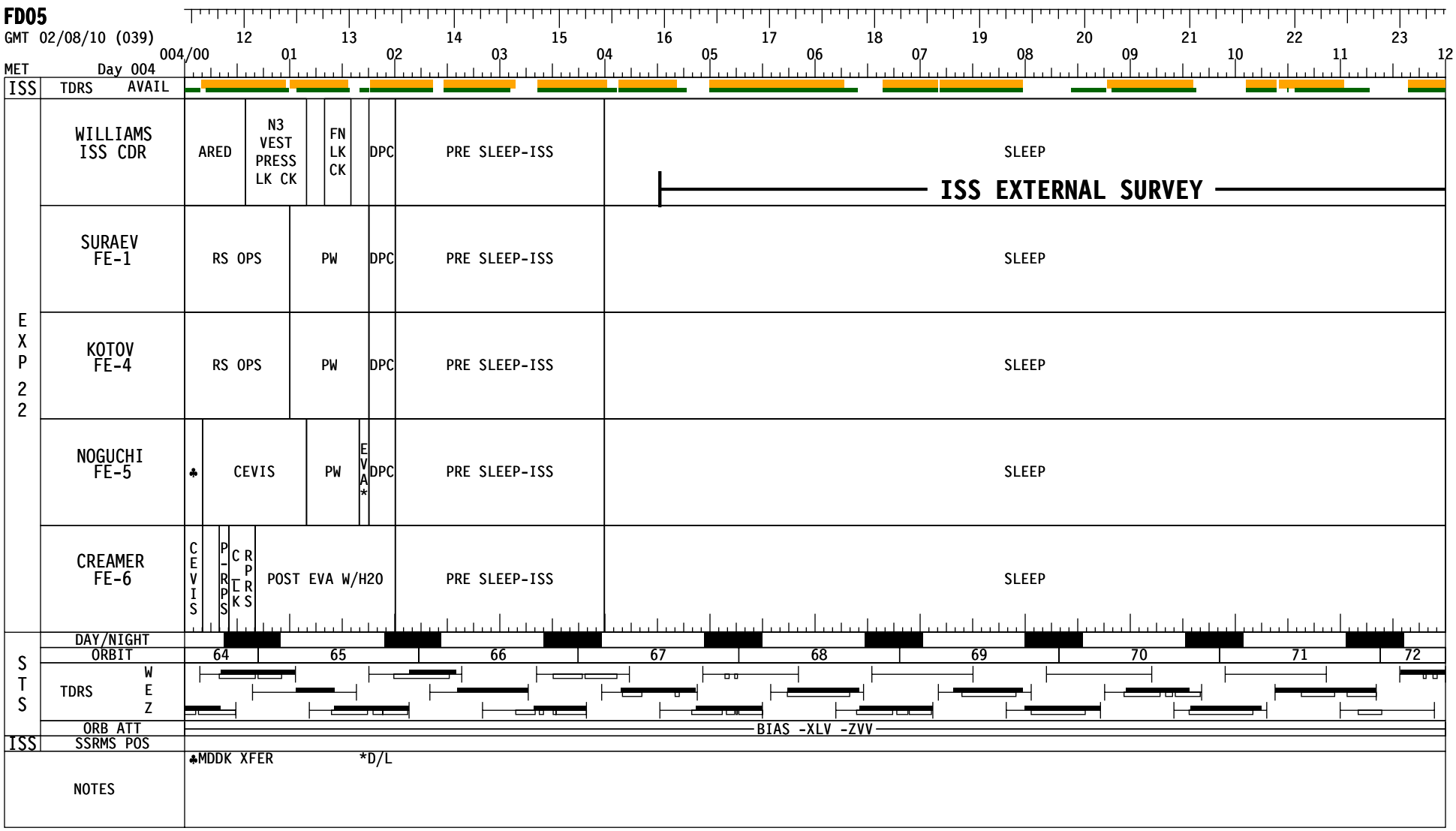
TDRS W E Z

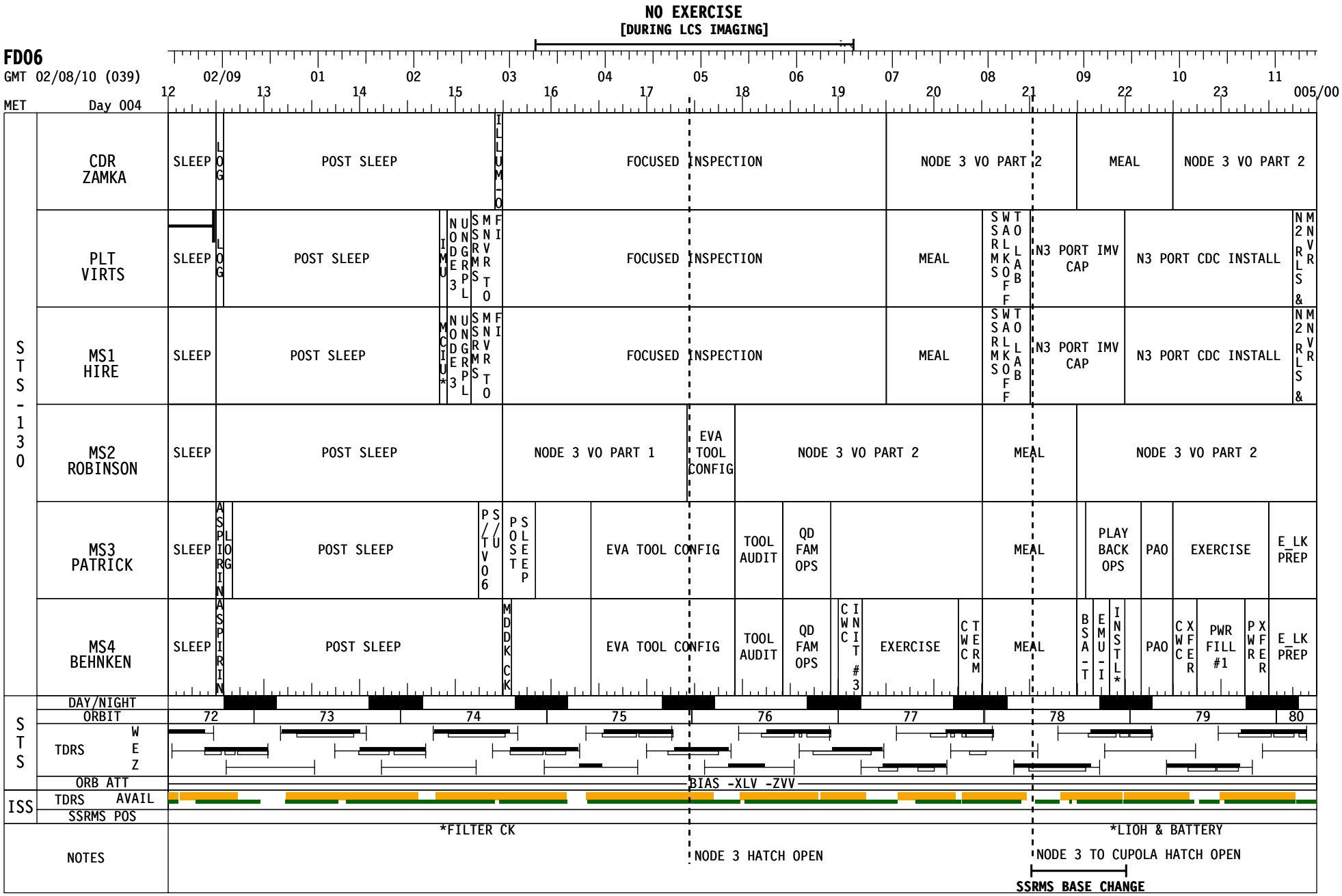
ORB ATT BIAS -XLV -ZVV

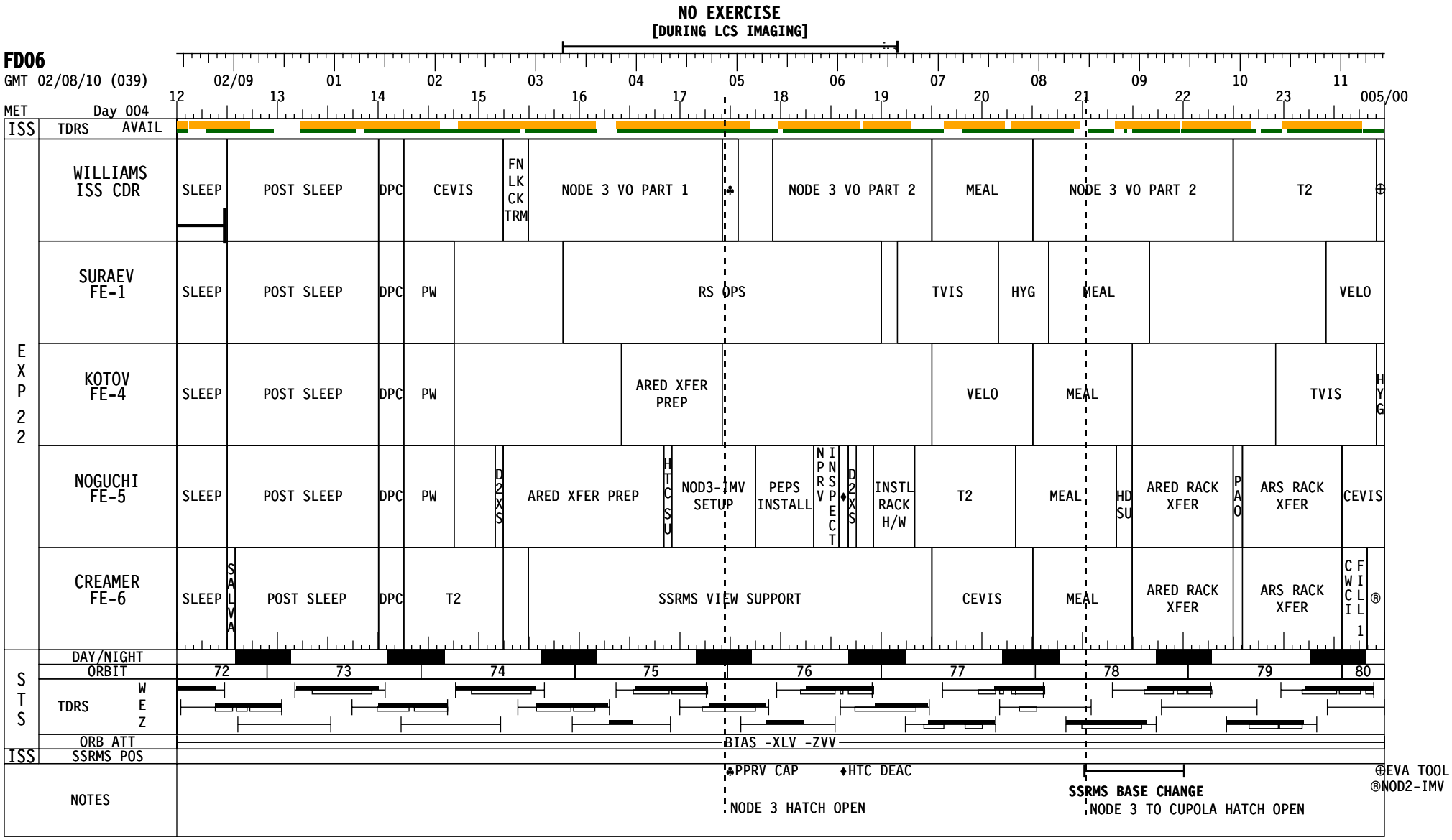
ISS SSRMS POS

NOTES ♣JPM/LAB-SHUTTER-CL ^MELFI


FD05
GMT 02/08/10 (039)
MET Day 004
004/00 12 13 14 15 16 17 18 19 20 21 22 23
01 02 03 04 05 06 07 08 09 10 11 12
STS-130
CDR ZAMKA
P/TV07 EVA OPS
P-RPS
CLK RPRS
POST EVA W/H20
BSA INIT
PS
FD CONF
PMC A/G
PRE SLEEP
SLEEP
PLT VIRTS
MDDK XFER
DAP EDIT
FLTR CLN - INSPECT
ILLUM-I
PRE SLEEP
ISS EXTERNAL SURVEY
SLEEP
MS1 HIRE
MDDK XFER
N3 VEST PRESS LK CK
FN LK CK
XFER TAGUP
XFER BRIEF
CREW CHOICE
CD/L
PRE SLEEP
SLEEP
MS2 ROBINSON
IVA SUPPORT
P-RPS
MDDK XFER
MDDK CK
PRE SLEEP
SLEEP
MS3 PATRICK EV2
CLNUP & INGRS
P-RPS
CLK RPRS
POST EVA W/H20
PRE SLEEP
SLEEP
MS4 BEHNKEN EV1
CLNUP & INGRS
P-RPS
CLK RPRS
POST EVA W/H20
PRE SLEEP
SLEEP
STS
DAY/NIGHT
ORBIT
64 65 66 67 68 69 70 71 72
TDRS W E Z
ORB ATT
BIAS -XLV -ZVV
ISS
TDRS AVAIL
SSRMS POS
NOTES


FD05
GMT 02/08/10 (039)
12 13 14 15 16 17 18 19 20 21 22 23
004/00 01 02 03 04 05 06 07 08 09 10 11 12
MET Day 004
ISS TDRS AVAIL
EXP 22
WILLIAMS ISS CDR
ARED
N3 VEST PRESS LK CK
FN LK CK
DPC
PRE SLEEP-ISS
SLEEP
ISS EXTERNAL SURVEY
SURAEV FE-1
RS OPS
PW
DPC
PRE SLEEP-ISS
SLEEP
KOTOV FE-4
RS OPS
PW
DPC
PRE SLEEP-ISS
SLEEP
NOGUCHI FE-5
♣
CEVIS
PW
EVA*
DPC
PRE SLEEP-ISS
SLEEP
CREAMER FE-6
CEVIS
P-RPS
C-LK
RPRS
POST EVA W/H20
PRE SLEEP-ISS
SLEEP
STS
DAY/NIGHT
ORBIT
64 65 66 67 68 69 70 71 72
TDRS
W
E
Z
ORB ATT
BIAS -XLV -ZVV
ISS
SSRMS POS
NOTES
♣MDDK XFER
*D/L


NO EXERCISE
[DURING LCS IMAGING]
FD06
GMT 02/08/10 (039)
MET Day 004
02/09 01 02 03 04 05 06 07 08 09 10 11
12 13 14 15 16 17 18 19 20 21 22 23 005/00
STS-130
CDR ZAMKA
SLEEP
LOG
POST SLEEP
ILLUM-O
FOCUSED INSPECTION
NODE 3 VO PART 2
MEAL
NODE 3 VO PART 2
PLT VIRTS
SLEEP
LOG
POST SLEEP
IMU
NODE 3
UNGRPL
SSRMS
MNVR TO
FOCUSED INSPECTION
MEAL
SSRMS
WALK OFF
TO LAB
N3 PORT IMV CAP
N3 PORT CDC INSTALL
N2 RLS & MNVR
MS1 HIRE
SLEEP
POST SLEEP
MCIU*
NODE 3
UNGRPL
SSRMS
MNVR TO
FOCUSED INSPECTION
MEAL
SSRMS
WALK OFF
TO LAB
N3 PORT IMV CAP
N3 PORT CDC INSTALL
N2 RLS & MNVR
MS2 ROBINSON
SLEEP
POST SLEEP
NODE 3 VO PART 1
EVA TOOL CONFIG
NODE 3 VO PART 2
MEAL
NODE 3 VO PART 2
MS3 PATRICK
SLEEP
ASPIRIN
LOG
POST SLEEP
P/TV06
S/U
POST
SLEEP
EVA TOOL CONFIG
TOOL AUDIT
QD FAM OPS
MEAL
PLAY BACK OPS
PAO
EXERCISE
E_LK PREP
MS4 BEHNKEN
SLEEP
ASPIRIN
POST SLEEP
MDK CK
EVA TOOL CONFIG
TOOL AUDIT
QD FAM OPS
CWC
INIT #3
EXERCISE
CWC
TERM
MEAL
BSA-T
EMU-I
INSTL*
PAO
CWC
XFER
PWR FILL #1
PWR
XFER
E_LK PREP
STS
DAY/NIGHT
ORBIT
72 73 74 75 76 77 78 79 80
TDRS
W
E
Z
ORB ATT
BIAS -XLV -ZVV
ISS
TDRS AVAIL
SSRMS POS
NOTES
*FILTER CK
NODE 3 HATCH OPEN
*LIOH & BATTERY
NODE 3 TO CUPOLA HATCH OPEN
SSRMS BASE CHANGE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[DURING LCS IMAGING]
FD06
GMT 02/08/10 (039)
MET Day 004
02/09 01 02 03 04 05 06 07 08 09 10 11
12 13 14 15 16 17 18 19 20 21 22 23 005/00
ISS TDRS AVAIL
EXP 22
WILLIAMS ISS CDR
SLEEP POST SLEEP DPC CEVIS FN LK CK TRM NODE 3 VO PART 1 NODE 3 VO PART 2 MEAL NODE 3 VO PART 2 T2
SURAEV FE-1
SLEEP POST SLEEP DPC PW RS OPS TVIS HYG MEAL VELO
KOTOV FE-4
SLEEP POST SLEEP DPC PW ARED XFER PREP VELO MEAL TVIS HYG
NOGUCHI FE-5
SLEEP POST SLEEP DPC PW D2XS ARED XFER PREP HTCSU NOD3-IMV SETUP PEPS INSTALL NPRV INSPECT D2XS INSTL RACK H/W T2 MEAL HDSU ARED RACK XFER PAO ARS RACK XFER CEVIS
CREAMER FE-6
SLEEP SALVA POST SLEEP DPC T2 SSRMS VIEW SUPPORT CEVIS MEAL ARED RACK XFER ARS RACK XFER CWCI FILL 1 ®
STS
DAY/NIGHT
ORBIT 72 73 74 75 76 77 78 79 80
TDRS W E Z
ORB ATT BIAS -XLV -ZVV
ISS SSRMS POS
NOTES
♣PPRV CAP ♦HTC DEAC
NODE 3 HATCH OPEN
SSRMS BASE CHANGE
NODE 3 TO CUPOLA HATCH OPEN
⊕EVA TOOL
®NOD2-IMV

FD06

GMT 02/09/10 (040)

MET Day 005

		005/00	01	02	03	04	05	06	07	08	09	10	11	12
STS-130	CDR ZAMKA	NODE 3 VO PART 2	EVA 2 PROC REVIEW	PRE SLEEP	FDCONF / PMC A/G	MASK P/B CONFIG	PRE SLEEP	SLEEP						
	PLT VIRTS	♣ MNVR TO CPLA & GRPL	VAJ FIT CHK	EVA 2 PROC REVIEW	PAO	PRE SLEEP	SLEEP							
	MS1 HIRE	⊕ MNVR TO CPLA & GRPL	VAJ FIT CHK	EVA 2 PROC REVIEW	PAO	PS / CREW DL	PRE SLEEP	SLEEP						
	MS2 ROBINSON	NODE 3 VO PART 2	EVA 2 PROC REVIEW	EXERCISE	PRE SLEEP	SLEEP								
	MS3 PATRICK	E_LK PREP	EVA 2 PROC REVIEW	PRE SLEEP	MASK P/B CONFIG	PRE SLEEP	SLEEP							
	MS4 BEHNKEN	E_LK PREP / MDK CK	EVA 2 PROC REVIEW	PRE SLEEP	MASK P/B CONFIG	PRE SLEEP	SLEEP							
STS	DAY/NIGHT													
	ORBIT	80	81	82	83	84	85	86	87	88				
	TDRS W E Z													
	ORB ATT	BIAS -XLV -ZVV												
ISS	TDRS AVAIL													
	SSRMS POS													
	NOTES	♣N2 RLS & MNVR ⊕N2 RLS & MNVR												

10.2 DPRS — ISS A/L Campout @ 10.2 psi

FD06

GMT 02/09/10 (040)

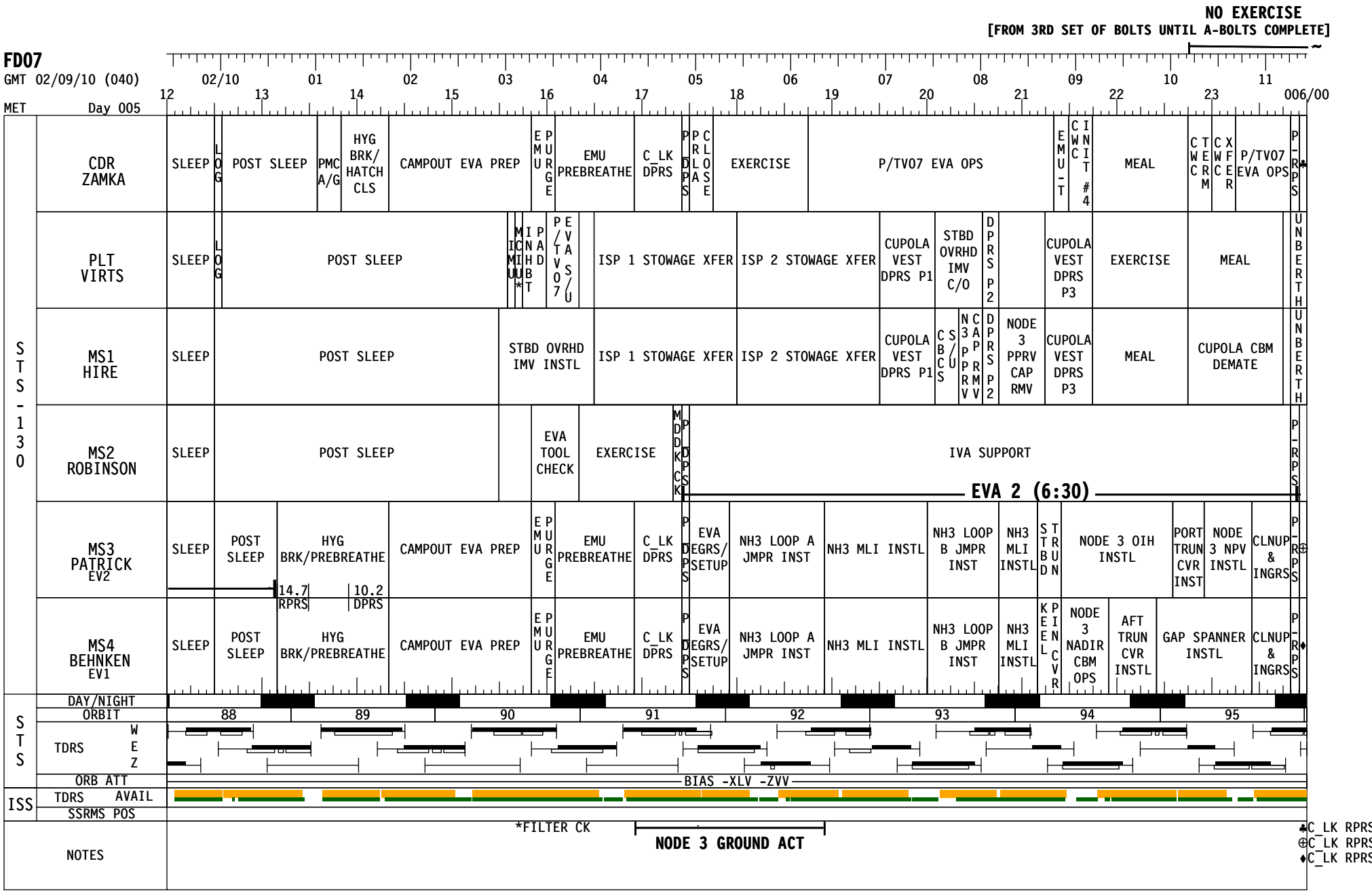
MET Day 005

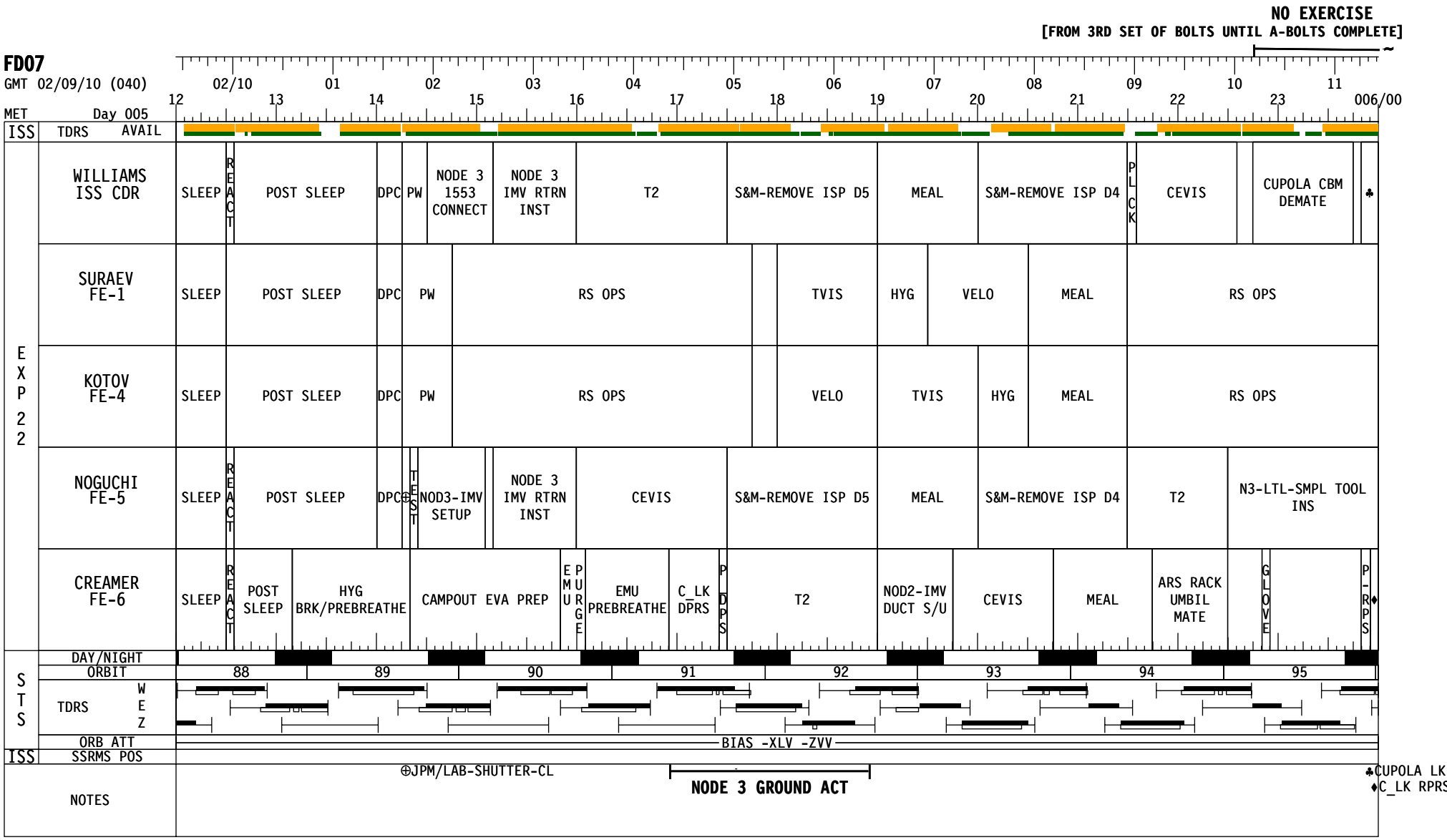
ISS	TDRS AVAIL	005/00	01	02	03	04	05	06	07	08	09	10	11	12
		12	13	14	15	16	17	18	19	20	21	22	23	

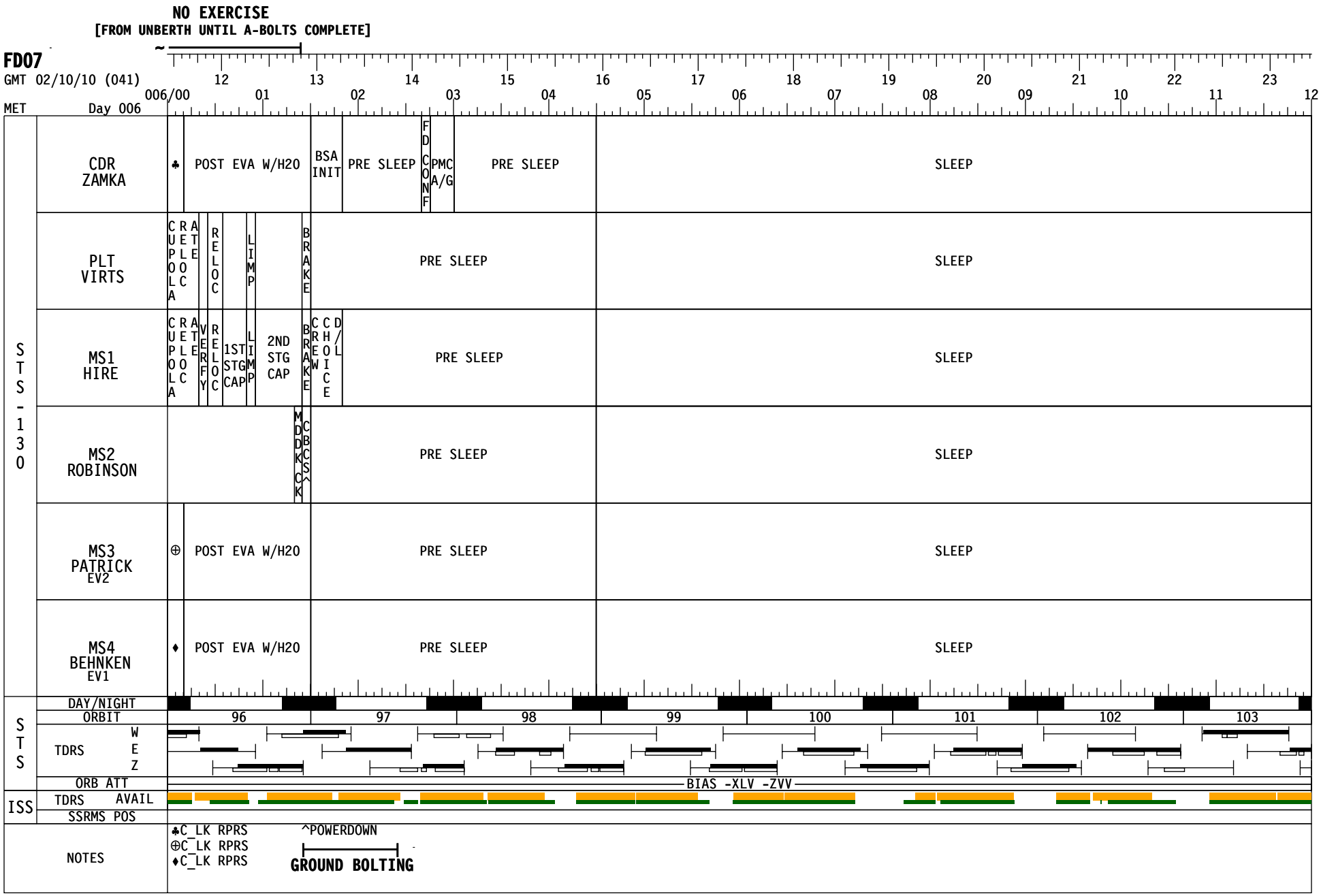
EXP 22								
WILLIAMS ISS CDR	EVA TOOL STOW	EVA 2 PROC REVIEW	PW	DPC	PRE SLEEP-ISS	SLEEP		
SURAEV FE-1	VELO	EVA 2 PROC REVIEW	PW	DPC	PRE SLEEP-ISS	SLEEP		
KOTOV FE-4	HYG	EVA 2 PROC REVIEW	PW	DPC	PRE SLEEP-ISS	SLEEP		
NOGUCHI FE-5	CEVIS	PW	HD SU	D2XS CAMR	DPC	PAO	PRE SLEEP-ISS	SLEEP
CREAMER FE-6	♣	CWCI	FILL 2	EVA 2 PROC REVIEW	HAM	PW	DPC	PRE SLEEP-ISS	SLEEP

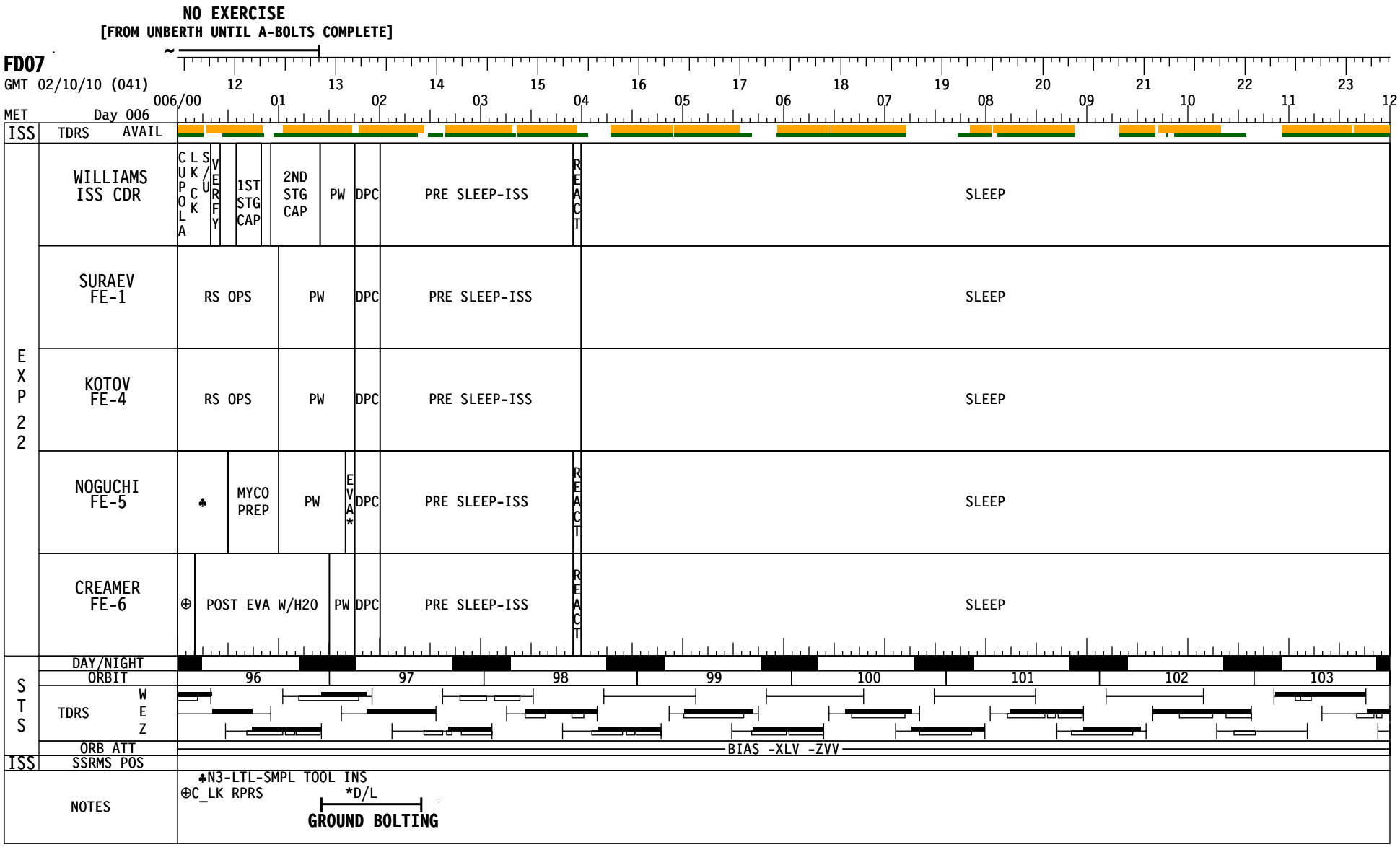
STS										
DAY/NIGHT										
ORBIT	80	81	82	83	84	85	86	87	88	
TDRS W E Z										
ORB ATT	BIAS -XLV -ZVV									

ISS	
SSRMS POS	
NOTES	♣NOD2-IMV DUCT S/U


NO EXERCISE
[FROM 3RD SET OF BOLTS UNTIL A-BOLTS COMPLETE]
FD07
GMT 02/09/10 (040)
MET Day 005
02/10 01 02 03 04 05 06 07 08 09 10 11
12 13 14 15 16 17 18 19 20 21 22 23 006/00
STS-130
CDR ZAMKA
SLEEP
LOG
POST SLEEP
PMC A/G
HYG BRK/ HATCH CLS
CAMPOUT EVA PREP
EMU PURGE
EMU PREBREATHE
C_LK DPRS
P_DPS
PRLA CLOSE
EXERCISE
P/TV07 EVA OPS
EMU-T
CWC INIT #4
MEAL
CWC TERM
CWC XFER
P/TV07 EVA OPS
P-RPS
PLT VIRTS
SLEEP
LOG
POST SLEEP
IMU
MIN*
INHBT
PAD
P/TV07
EVA S/U
ISP 1 STOWAGE XFER
ISP 2 STOWAGE XFER
CUPOLA VEST DPRS P1
STBD OVRHD IMV C/O
DPRS P2
CUPOLA VEST DPRS P3
EXERCISE
MEAL
UNBERTH
MS1 HIRE
SLEEP
POST SLEEP
STBD OVRHD IMV INSTL
ISP 1 STOWAGE XFER
ISP 2 STOWAGE XFER
CUPOLA VEST DPRS P1
CBCS S/U
N3 PPRV
CAP RMV
DPRS P2
NODE 3 PPRV CAP RMV
CUPOLA VEST DPRS P3
MEAL
CUPOLA CBM DEMATE
UNBERTH
MS2 ROBINSON
SLEEP
POST SLEEP
EVA TOOL CHECK
EXERCISE
MDDK CK
P_DPS
IVA SUPPORT
EVA 2 (6:30)
P-RPS
MS3 PATRICK EV2
SLEEP
POST SLEEP
HYG BRK/PREBREATHE
14.7 RPRS
10.2 DPRS
CAMPOUT EVA PREP
EMU PURGE
EMU PREBREATHE
C_LK DPRS
P_DPS
EVA EGRS/ SETUP
NH3 LOOP A JMPR INST
NH3 MLI INSTL
NH3 LOOP B JMPR INST
NH3 MLI INSTL
STBD TRUN
NODE 3 OIH INSTL
PORT TRUN CVR INST
NODE 3 NPV INSTL
CLNUP & INGRS
P-RPS
MS4 BEHNKEN EV1
SLEEP
POST SLEEP
HYG BRK/PREBREATHE
CAMPOUT EVA PREP
EMU PURGE
EMU PREBREATHE
C_LK DPRS
P_DPS
EVA EGRS/ SETUP
NH3 LOOP A JMPR INST
NH3 MLI INSTL
NH3 LOOP B JMPR INST
NH3 MLI INSTL
KEEL PIN CVR
NODE 3 NADIR CBM OPS
AFT TRUN CVR INSTL
GAP SPANNER INSTL
CLNUP & INGRS
P-RPS
STS
DAY/NIGHT
ORBIT
88 89 90 91 92 93 94 95
TDRS W E Z
ORB ATT
BIAS -XLV -ZVV
ISS
TDRS AVAIL
SSRMS POS
NOTES
*FILTER CK
NODE 3 GROUND ACT
C_LK RPRS
C_LK RPRS
C_LK RPRS


NO EXERCISE
[FROM 3RD SET OF BOLTS UNTIL A-BOLTS COMPLETE]
FD07
GMT 02/09/10 (040)
02/10 01 02 03 04 05 06 07 08 09 10 11
12 13 14 15 16 17 18 19 20 21 22 23 006/00
MET Day 005
ISS TDRS AVAIL
EXP 22
WILLIAMS ISS CDR
SLEEP REACT POST SLEEP DPC PW NODE 3 1553 CONNECT NODE 3 IMV RTRN INST T2 S&M-REMOVE ISP D5 MEAL S&M-REMOVE ISP D4 PLCK CEVIS CUPOLA CBM DEMATE ♣
SURAEV FE-1
SLEEP POST SLEEP DPC PW RS OPS TVIS HYG VELO MEAL RS OPS
KOTOV FE-4
SLEEP POST SLEEP DPC PW RS OPS VELO TVIS HYG MEAL RS OPS
NOGUCHI FE-5
SLEEP REACT POST SLEEP DPC⊕ TEST NOD3-IMV SETUP NODE 3 IMV RTRN INST CEVIS S&M-REMOVE ISP D5 MEAL S&M-REMOVE ISP D4 T2 N3-LTL-SMPL TOOL INS
CREAMER FE-6
SLEEP REACT POST SLEEP HYG BRK/PREBREATHE CAMPOUT EVA PREP EMU PURGE EMU PREBREATHE C_LK DPRS P_DPS T2 NOD2-IMV DUCT S/U CEVIS MEAL ARS RACK UMBIL MATE GLOVE P-RPS♦
STS
DAY/NIGHT
ORBIT 88 89 90 91 92 93 94 95
TDRS W E Z
ORB ATT BIAS -XLV -ZVV
ISS SSRMS POS
NOTES
⊕JPM/LAB-SHUTTER-CL
NODE 3 GROUND ACT
♣CUPOLA LK
♦C_LK RPRS


NO EXERCISE
[FROM UNBERTH UNTIL A-BOLTS COMPLETE]
FD07
GMT 02/10/10 (041)
MET Day 006
006/00 12 01 13 02 14 03 15 04 16 05 17 06 18 07 19 08 20 09 21 10 22 11 23 12
STS-130
CDR ZAMKA
♣ POST EVA W/H20
BSA INIT
PRE SLEEP
FD CONF
PMC A/G
PRE SLEEP
SLEEP
PLT VIRTS
CUPOLA
RATE
RELOC
LIMP
BRAKE
PRE SLEEP
SLEEP
MS1 HIRE
CUPOLA
RATE
VERFY
RELOC
1ST STG CAP
LIMP
2ND STG CAP
BRAKE
CREW
CHOICE
D/L
PRE SLEEP
SLEEP
MS2 ROBINSON
MDDKCK
CBCS^
PRE SLEEP
SLEEP
MS3 PATRICK EV2
⊕ POST EVA W/H20
PRE SLEEP
SLEEP
MS4 BEHNKEN EV1
♦ POST EVA W/H20
PRE SLEEP
SLEEP
STS
DAY/NIGHT
ORBIT
96 97 98 99 100 101 102 103
TDRS W E Z
ORB ATT
BIAS -XLV -ZVV
ISS
TDRS AVAIL
SSRMS POS
NOTES
♣C_LK RPRS
⊕C_LK RPRS
♦C_LK RPRS
^POWERDOWN
GROUND BOLTING


NO EXERCISE
[FROM UNBERTH UNTIL A-BOLTS COMPLETE]
FD07
GMT 02/10/10 (041)
12 13 14 15 16 17 18 19 20 21 22 23
006/00 01 02 03 04 05 06 07 08 09 10 11 12
MET Day 006
ISS TDRS AVAIL
EXP 22
WILLIAMS ISS CDR
CUPOLA
LK CK
S/U
VERFY
1ST STG CAP
2ND STG CAP
PW
DPC
PRE SLEEP-ISS
REACT
SLEEP
SURAEV FE-1
RS OPS
PW
DPC
PRE SLEEP-ISS
SLEEP
KOTOV FE-4
RS OPS
PW
DPC
PRE SLEEP-ISS
SLEEP
NOGUCHI FE-5
♣
MYCO PREP
PW
EVA*
DPC
PRE SLEEP-ISS
REACT
SLEEP
CREAMER FE-6
⊕
POST EVA W/H20
PW
DPC
PRE SLEEP-ISS
REACT
SLEEP
STS
DAY/NIGHT
ORBIT
96 97 98 99 100 101 102 103
TDRS
W
E
Z
ORB ATT
BIAS -XLV -ZVV
ISS
SSRMS POS
NOTES
♣N3-LTL-SMPL TOOL INS
⊕C_LK RPRS
*D/L
GROUND BOLTING

FD08

GMT 02/10/10 (041)

MET Day 006

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

12 13 14 15 16 17 18 19 20 21 22 23 007/00

STS-130	CDR ZAMKA	SLEEP; LOG; POST SLEEP; IMU; N2-I; CWC INIT #5; EXERCISE; CWC TERM; CWC XFER; CWC INIT #6; WRS 2 RACK XFER; CWC TERM; CWC XFER; N2-T; MEAL; ATTH/O*; MNVR DUMP; SPLY INIT; OGS RACK XFER; STPLY TERM; MNVR; ATTH/O*; FLTR CLN - INSPECT
STS-130	PLT VIRTS	SLEEP; LOG; POST SLEEP; CDC REMOVE; REMOVE CPA; RMV CUPOLA BLANKET; CBCS TRGT; VEST JUMPERS; MEAL; MTL JUMPERS; ACSS N3; EXERCISE; CUPOLA ENABLE; CPLA UNGRPL; & MNVR
STS-130	MS1 HIRE	SLEEP; POST SLEEP; CBCS DEACT & RMVL; CDC REMOVE; REMOVE CPA; RMV CUPOLA BLANKET; CBCS TRGT; VEST JUMPERS; MEAL; MTL JUMPERS; ACSS N3; EXERCISE; CPLA UNGRPL; & MNVR
STS-130	MS2 ROBINSON	SLEEP; POST SLEEP; MDK CK♣; EDV RMV; WRS DEMATES; WRS 1 RACK XFER; TOCA RMV; WRS 1 RK UMBIL MATE; WRS 2 RK UMBIL MATE; EVA TOOL CONFIG; MEAL; OGS RACK UMBIL DMATE; OGS RACK XFER; OGS RACK UMBIL MATE; STAND; SPINAL
STS-130	MS3 PATRICK	SLEEP; ASPIRIN; LOG; POST SLEEP; EXERCISE; EVA TOOL CONFIG; MEAL; TOOL AUDIT; GLCR P/TV09; STAND; SPINAL; PAO; KABIN REPLACE; E_LK PREP
STS-130	MS4 BEHNKEN	SLEEP; ASPIRIN; POST SLEEP; EXERCISE; EVA TOOL CONFIG; MEAL; TOOL AUDIT; MLF GLCR 20A SMP XFR; BSA-T; STAND; SPINAL; INSTL*; EMU-I; MDK CK; E_LK PREP
STS	DAY/NIGHT	
STS	ORBIT	104; 105; 106; 107; 108; 109; 110; 111
STS	TDRS W E Z	
STS	ORB ATT	BIAS -XLV -ZVV; DUMP
ISS	TDRS AVAIL	
ISS	SSRMS POS	
	NOTES	♣CRAB RMV; *TO STS; *TO ISS *METOX & BATTERY

FD08

GMT 02/10/10 (041)

MET Day 006

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

ISS TDRS AVAIL

EXP 22

WILLIAMS ISS CDR	SLEEP	POST SLEEP
	DPC	CEVIS
	VEST PRESS LK CK	WRS 1 RACK XFER
	WRS 2 RACK XFER	T2
	MEAL	CWCI FILL 1
	CWCI FILL 2	MLF GLCR 20A SMP XFR
	SPINAL DATA CLCT OPR	STAND SPINAL
	SPINAL DATA CLCT OPR	
SURAEV FE-1	SLEEP	POST SLEEP
	DPC	PW
	RS OPS	TVIS
	HYG	VELO
	MEAL	RS OPS
KOTOV FE-4	SLEEP	POST SLEEP
	DPC	PW
	RS OPS	VELO
	TVIS	HYG
	MEAL	RS OPS
NOGUCHI FE-5	SLEEP	MYCO CLCT
	INS	POST SLEEP
	DPC	POST SLEEP
	D2XS	KABIN REMOVE
	CEVIS	♣
	T2	D2XS
	WHC RACK XFER	⊕
	MEAL	NODE 3 H2O BUS FILL
	KABIN REPLACE	STAND SPINAL
CREAMER FE-6	SLEEP	SALVA
	MYCO CLCT	POST SLEEP
	DPC	POST SLEEP
	PW	KABIN REMOVE
	T2	SPINAL S/U
	STAND*	WHC DEMATE
	WHC RACK XFER	WHC MATE
	MEAL	HAM INSTL
	HD SU	PAO
	STAND SPINAL	SPNL DATA CLCT OPR
	CEVIS	

STS

DAY/NIGHT

ORBIT 104 105 106 107 108 109 110 111

TDRS W E Z

ORB ATT BIAS -XLV -ZVV DUMP

ISS SSRMS POS

NOTES

♣CEVIS-H/W-RMV *S/U

⊕CEVIS-H/W-INSTL

FD08

GMT 02/11/10 (042)

MET Day 007

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

STS-130	CDR ZAMKA	♣ PAO	EVA 3 PROC REVIEW	PRE SLEEP	FDCONF PMC A/G	MASK P/B CONFIG	PRE SLEEP	SLEEP		
	PLT VIRTS	⊕ PAO	EVA 3 PROC REVIEW	ILLUM-I	PRE SLEEP			ISS EXTERNAL SURVEY SLEEP		
	MS1 HIRE	♦ STAND SPINAL	EVA 3 PROC REVIEW	PRE SLEEP	CREW CHOICE D/L	PRE SLEEP		SLEEP		
	MS2 ROBINSON	MDKCK PAO	EVA 3 PROC REVIEW	EXERCISE	PRE SLEEP			SLEEP		
	MS3 PATRICK		EVA 3 PROC REVIEW	PRE SLEEP	MASK P/B CONFIG	PRE SLEEP		SLEEP ISS A/L Campout @ 10.2 psi		
	MS4 BEHNKEN	PAO	EVA 3 PROC REVIEW	PRE SLEEP	MASK P/B CONFIG	PRE SLEEP		SLEEP		

10.2 DPRS

STS	DAY/NIGHT	
	ORBIT	111 112 113 114 115 116 117 118 119
	TDRS W E Z	
	ORB ATT	BIAS -XLV -ZVV
ISS	TDRS AVAIL	
	SSRMS POS	

NOTES

♣FLTR CLN - INSPECT
⊕CPLA UNGRPL & MNVR
♦CPLA UNGRPL & MNVR

FD08

GMT 02/11/10 (042)

MET Day 007

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

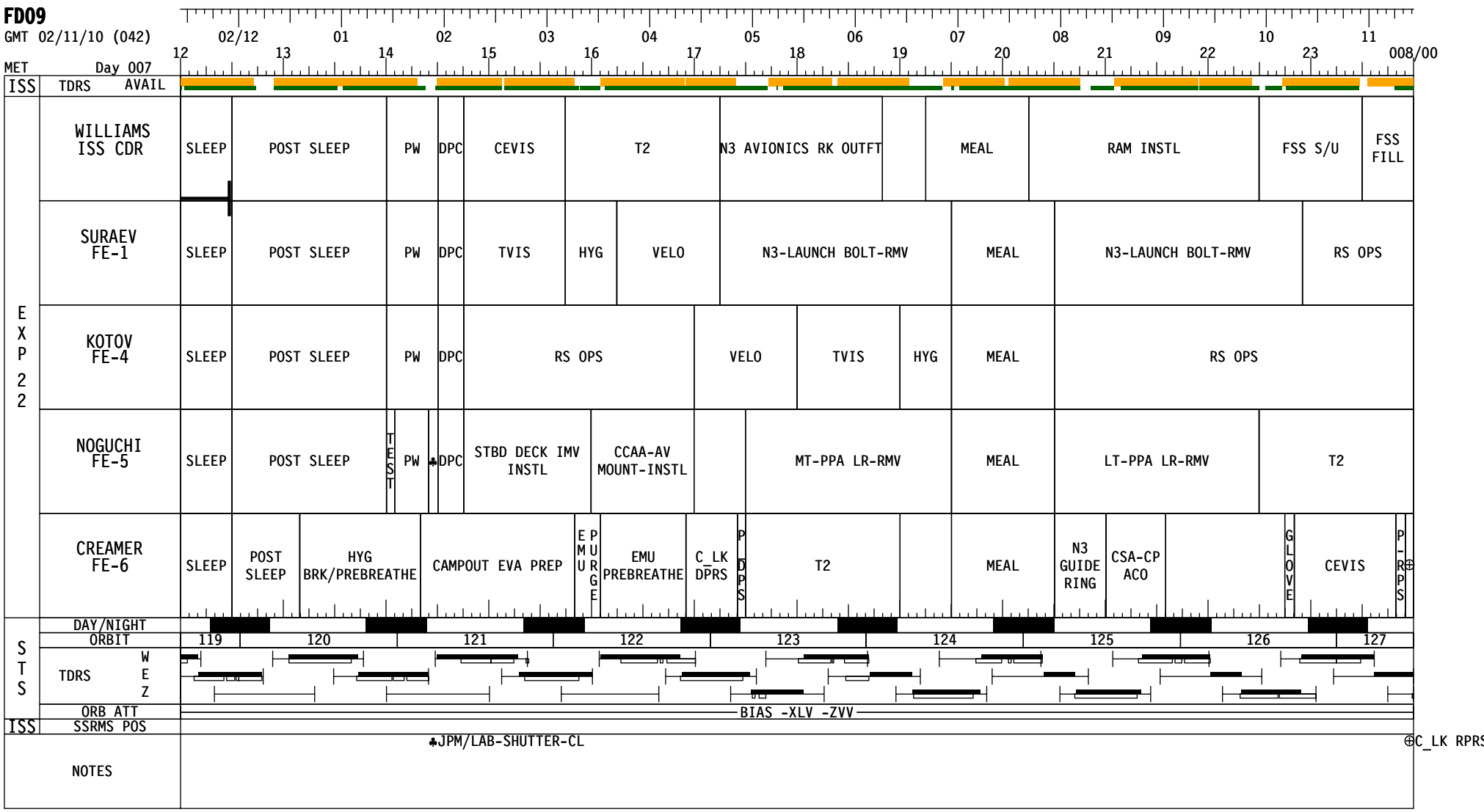
ISS	TDRS AVAIL							
EXP 22	WILLIAMS ISS CDR	♣	EVA 3 PROC REVIEW	PW	DPC	PRE SLEEP-ISS	SLEEP ISS EXTERNAL SURVEY	
	SURAEV FE-1	RS OPS	EVA 3 PROC REVIEW	PW	DPC	PRE SLEEP-ISS	SLEEP	
	KOTOV FE-4	RS OPS	EVA 3 PROC REVIEW	PW	DPC	PRE SLEEP-ISS	SLEEP	
	NOGUCHI FE-5	SPINAL	PAO SPINAL H/W STOW D2XS CAMR	PW	DPC	PRE SLEEP-ISS	SLEEP	
	CREAMER FE-6	CEVIS	EVA 3 PROC REVIEW	PW HAM	DPC	PRE SLEEP-ISS	SLEEP	
STS	DAY/NIGHT							
	ORBIT	111	112	113	114	115	116	117 118 119
	TDRS W E Z							
	ORB ATT	BIAS -XLV -ZVV						
ISS	SSRMS POS							
	NOTES	♣SPINAL DATA CLCT OPR						

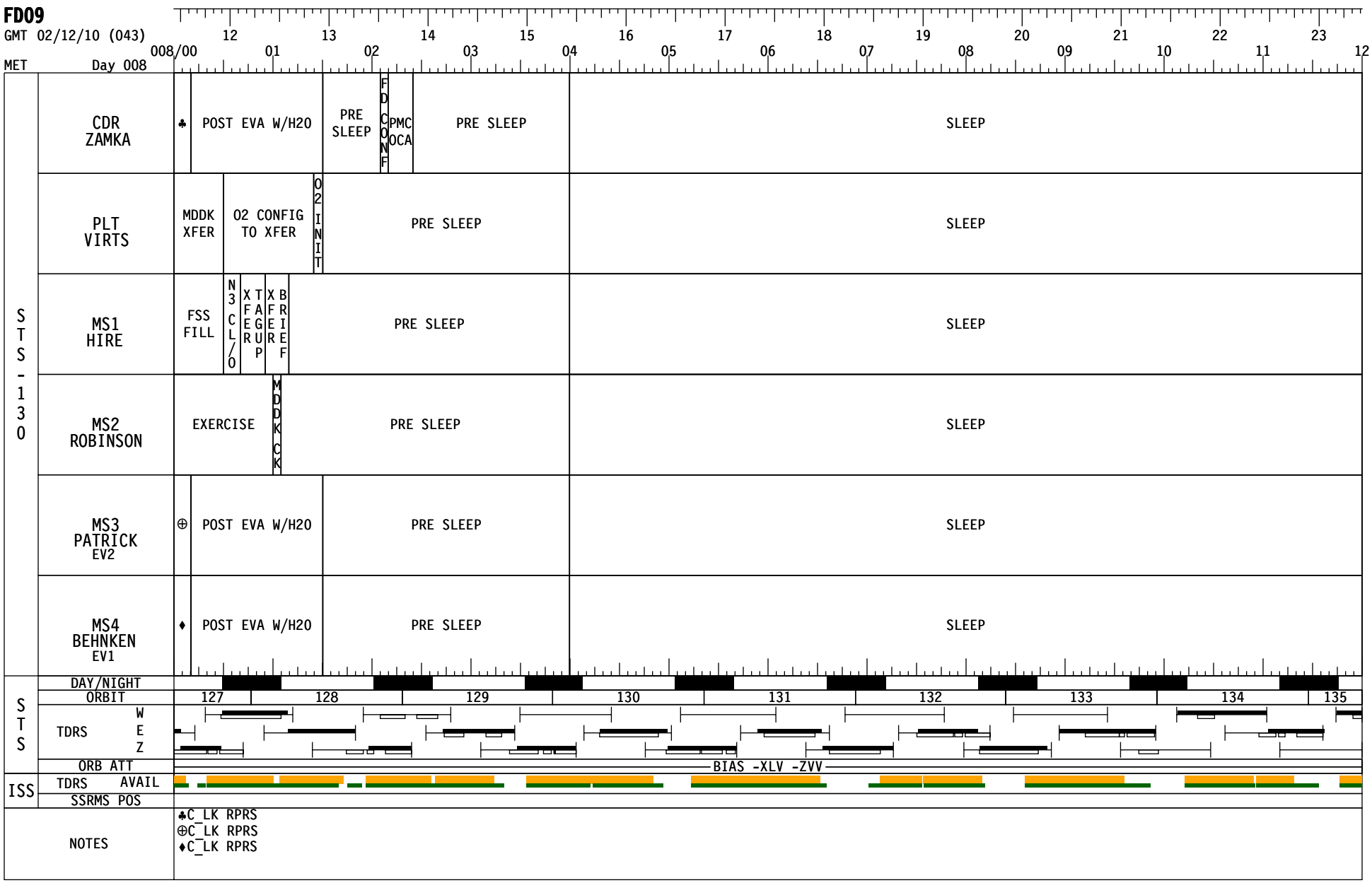
FD09

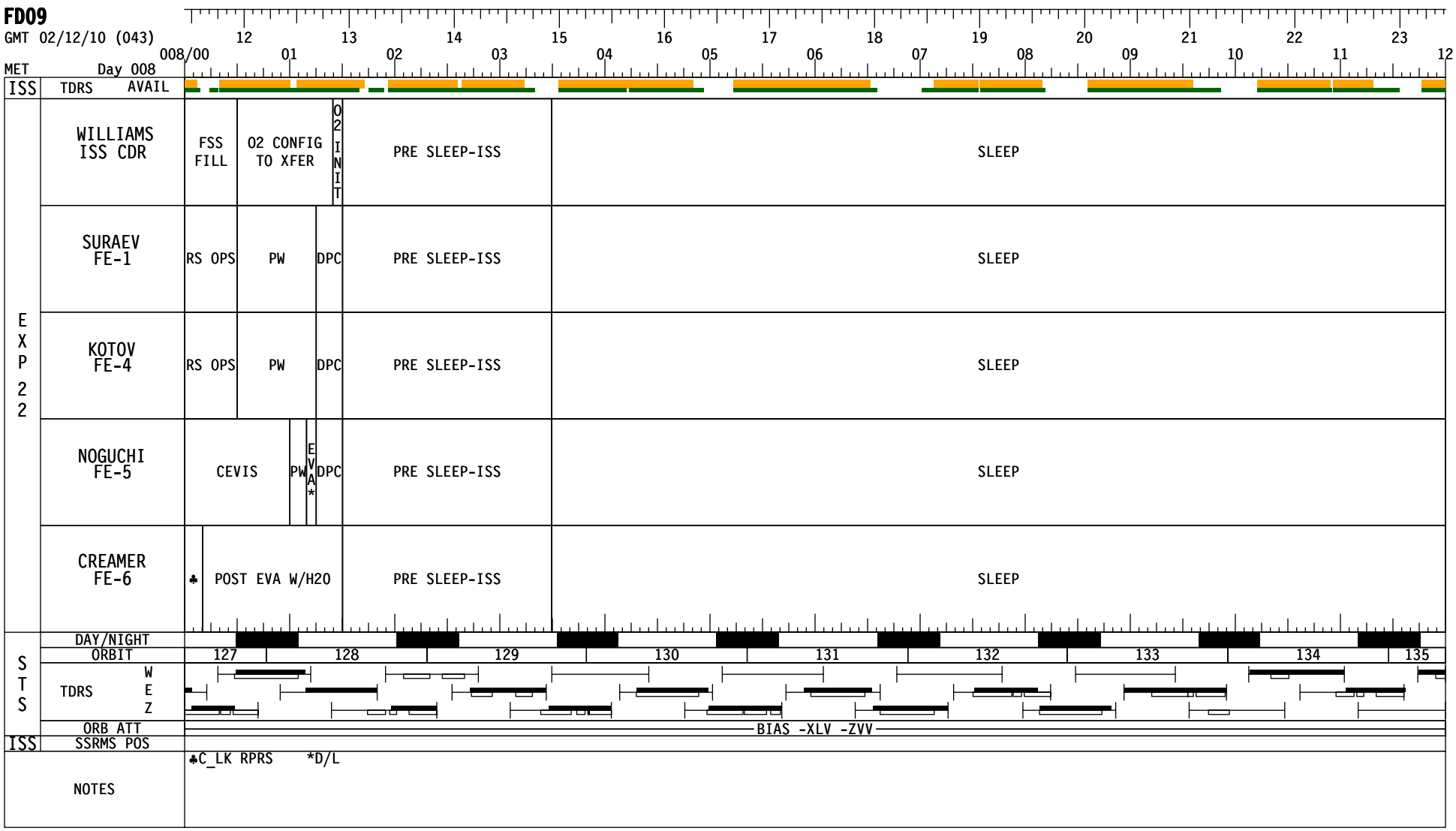
GMT 02/11/10 (042) — 02/12, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11

MET Day 007 — 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 008/00

STS-130	CDR ZAMKA	SLEEP; LOG; POST SLEEP; PMC A/G; HYG BRK/ HATCH CLS; CAMPOUT EVA PREP; EMU PURGE; EMU PREBREATHE; C_LK DPRS; PDPS; P/TV07 EVA OPS; EXERCISE; EMU-T; CWC INIT #7; MEAL; CWC TERM; CWC XFER; PWR FILL #2; PWR XFER; P-RPS♣
	PLT VIRTS	SLEEP; LOG; POST SLEEP; ILLUM-O; MIU*; WCS#; INHBT PADT; P/TV07 EVAS/U; MTL SMPL TOOL INSTL; EXERCISE; MDDK XFER; MEAL; MDDK XFER
	MS1 HIRE	SLEEP; POST SLEEP; XFER; UPDATE; EXERCISE; CUPOLA ATU INSTALL; CUPOLA UOP INSTALL; CUPOLA PANEL INSTALL; MEAL; FSS S/U; FSS FILL
	MS2 ROBINSON	SLEEP; POST SLEEP; MDDK CK; EVA TOOL CHECK; MDDK XFER; PDPS; IVA SUPPORT; EVA 3 (6:30); P-RPS
	MS3 PATRICK EV2	SLEEP; POST SLEEP; HYG BRK/PREBREATHE (14.7 RPRS, 10.2 DPRS); CAMPOUT EVA PREP; EMU PURGE; EMU PREBREATHE; C_LK DPRS; PDPS; EVA DEGRS/ SETUP; PORT AX CBM CVR INST; CUPOLA MLI REMOVAL; CUPOLA LL RELEASE; GETAHEAD; CLNUP & INGRS; P-RPS⊕
	MS4 BEHNKEN EV1	SLEEP; POST SLEEP; HYG BRK/PREBREATHE; CAMPOUT EVA PREP; EMU PURGE; EMU PREBREATHE; C_LK DPRS; PDPS; EVA DEGRS/ SETUP; OPEN LOOP B QDS; NODE LTA CBLE DSCNCT; CUPOLA MLI REMOVAL; OIWIF; INSTL NODE 3 OIH INSTL; GETAHEAD; CLNUP & INGRS; P-RPS♦
STS	DAY/NIGHT	
	ORBIT	119, 120, 121, 122, 123, 124, 125, 126, 127
	TDRS W E Z	
	ORB ATT	BIAS -XLV -ZVV
ISS	TDRS AVAIL	
	SSRMS POS	
	NOTES	*FILTER CK #COMPACT ♣C_LK RPRS ⊕C_LK RPRS ♦C_LK RPRS


FD09
GMT 02/11/10 (042)
MET Day 007
02/12 01 02 03 04 05 06 07 08 09 10 11
12 13 14 15 16 17 18 19 20 21 22 23 008/00
ISS TDRS AVAIL
EXP 22
WILLIAMS ISS CDR
SLEEP POST SLEEP PW DPC CEVIS T2 N3 AVIONICS RK OUTFT MEAL RAM INSTL FSS S/U FSS FILL
SURAEV FE-1
SLEEP POST SLEEP PW DPC TVIS HYG VELO N3-LAUNCH BOLT-RMV MEAL N3-LAUNCH BOLT-RMV RS OPS
KOTOV FE-4
SLEEP POST SLEEP PW DPC RS OPS VELO TVIS HYG MEAL RS OPS
NOGUCHI FE-5
SLEEP POST SLEEP TEST PW ♣DPC STBD DECK IMV INSTL CCAA-AV MOUNT-INSTL MT-PPA LR-RMV MEAL LT-PPA LR-RMV T2
CREAMER FE-6
SLEEP POST SLEEP HYG BRK/PREBREATHE CAMPOUT EVA PREP EMU PURGE EMU PREBREATHE C_LK DPRS PDPS T2 MEAL N3 GUIDE RING CSA-CP ACO GLOVE CEVIS P-RPS⊕
STS
DAY/NIGHT
ORBIT 119 120 121 122 123 124 125 126 127
TDRS W E Z
ORB ATT BIAS -XLV -ZVV
ISS SSRMS POS
NOTES
♣JPM/LAB-SHUTTER-CL
⊕C_LK RPRS


FD09
GMT 02/12/10 (043)
MET Day 008
12 13 14 15 16 17 18 19 20 21 22 23
008/00 01 02 03 04 05 06 07 08 09 10 11 12
STS-130
CDR ZAMKA
♣ POST EVA W/H20
PRE SLEEP
FD CONF
PMC OCA
PRE SLEEP
SLEEP
PLT VIRTS
MDDK XFER
O2 CONFIG TO XFER
O2 INIT
PRE SLEEP
SLEEP
MS1 HIRE
FSS FILL
N3 CL/O
XFER TAGUP
XFER BRIEF
PRE SLEEP
SLEEP
MS2 ROBINSON
EXERCISE
MDDK CK
PRE SLEEP
SLEEP
MS3 PATRICK EV2
⊕ POST EVA W/H20
PRE SLEEP
SLEEP
MS4 BEHNKEN EV1
♦ POST EVA W/H20
PRE SLEEP
SLEEP
STS
DAY/NIGHT
ORBIT
127 128 129 130 131 132 133 134 135
TDRS W E Z
ORB ATT
BIAS -XLV -ZVV
ISS
TDRS AVAIL
SSRMS POS
NOTES
♣C_LK RPRS
⊕C_LK RPRS
♦C_LK RPRS


FD09
GMT 02/12/10 (043)
12 13 14 15 16 17 18 19 20 21 22 23
008/00 01 02 03 04 05 06 07 08 09 10 11 12
MET Day 008
ISS TDRS AVAIL
EXP 22
WILLIAMS ISS CDR
FSS FILL
O2 CONFIG TO XFER
O2 INIT
PRE SLEEP-ISS
SLEEP
SURAEV FE-1
RS OPS
PW
DPC
PRE SLEEP-ISS
SLEEP
KOTOV FE-4
RS OPS
PW
DPC
PRE SLEEP-ISS
SLEEP
NOGUCHI FE-5
CEVIS
PW
EVA*
DPC
PRE SLEEP-ISS
SLEEP
CREAMER FE-6
♣
POST EVA W/H2O
PRE SLEEP-ISS
SLEEP
STS
DAY/NIGHT
ORBIT
127 128 129 130 131 132 133 134 135
TDRS
W
E
Z
ORB ATT
BIAS -XLV -ZVV
ISS
SSRMS POS
NOTES
♣C_LK RPRS *D/L

FD10

GMT 02/12/10 (043) — 02/13 01 02 03 04 05 06 07 08 09 10 11

MET Day 008 — 12 13 14 15 16 17 18 19 20 21 22 23 009/00

STS-130	CDR ZAMKA	LOG; POST SLEEP; CWC; INIT #8; EXERCISE; CWC; TERM; CWC; XFER; PWR FILL #3; PWR FILL #4; PWR XFER (2); CREW CONF; CREW; PHOTO; MEAL; PFC OCA; OFF DUTY; ATTH/O*; MNVR; REBOOST; FARE; RCS BNFIGS
	PLT VIRTS	LOG; POST SLEEP; N2-I; POST SLEEP; IMU; MCIU*; NOMH2O; CONFG; COND; CHG/O; EXERCISE; O2 TERM; O2 SYS TEARDOWN; N2 XFER TERM; CREW CONF; CREW; PHOTO; MEAL; OFF DUTY; PFC OCA; OFF DUTY; OBSS#; P/TV 04 S/U; WELL; HATCH CLOSE
	MS1 HIRE	POST SLEEP; XFER; UPDATE; MDDK XFER; EXERCISE; PTV05; DEACT; CREW CONF; CREW; PHOTO; MEAL; OFF DUTY; PFC OCA; OFF DUTY; XFER; TAGUP; XFER; BREF; FARE; PRE SLEEP
	MS2 ROBINSON	POST SLEEP; MDDK XFER; N2-T; EXERCISE; CREW CONF; CREW; PHOTO; MEAL; OFF DUTY; PFC OCA; OFF DUTY; OBSS#; WELL; HATCH CLOSE
	MS3 PATRICK	ASPIRIN; LOG; POST SLEEP; EVA RECONFIG & XFER; EVA STOW; EMU; INSTALL; CREW CONF; CREW; PHOTO; MEAL; OFF DUTY; PFC OCA; OFF DUTY; FARE; EXER CISE
	MS4 BEHNKEN	ASPIRIN; POST SLEEP; MDDK CK; EVA RECONFIG & XFER; EVA STOW; EMU; INSTALL; CREW CONF; CREW; PHOTO; MEAL; OFF DUTY; PFC OCA; ♣; NLP; CELLS; ACT 2; WELL; FMK; DPLY
STS	DAY/NIGHT	
	ORBIT	135; 136; 137; 138; 139; 140; 141; 142; 143
	TDRS W E Z	
	ORB ATT	BIAS -XLV -ZVV; REBOOST
ISS	TDRS AVAIL	
	SSRMS POS	
	NOTES	*FILTER CK; ♣NLP VAC ACT 2; *TO STS; #MNVR TO UNDOCK

FD10

GMT 02/12/10 (043) — 02/13 01 02 03 04 05 06 07 08 09 10 11

MET Day 008 — 12 13 14 15 16 17 18 19 20 21 22 23 009/00

ISS TDRS AVAIL

EXP 22

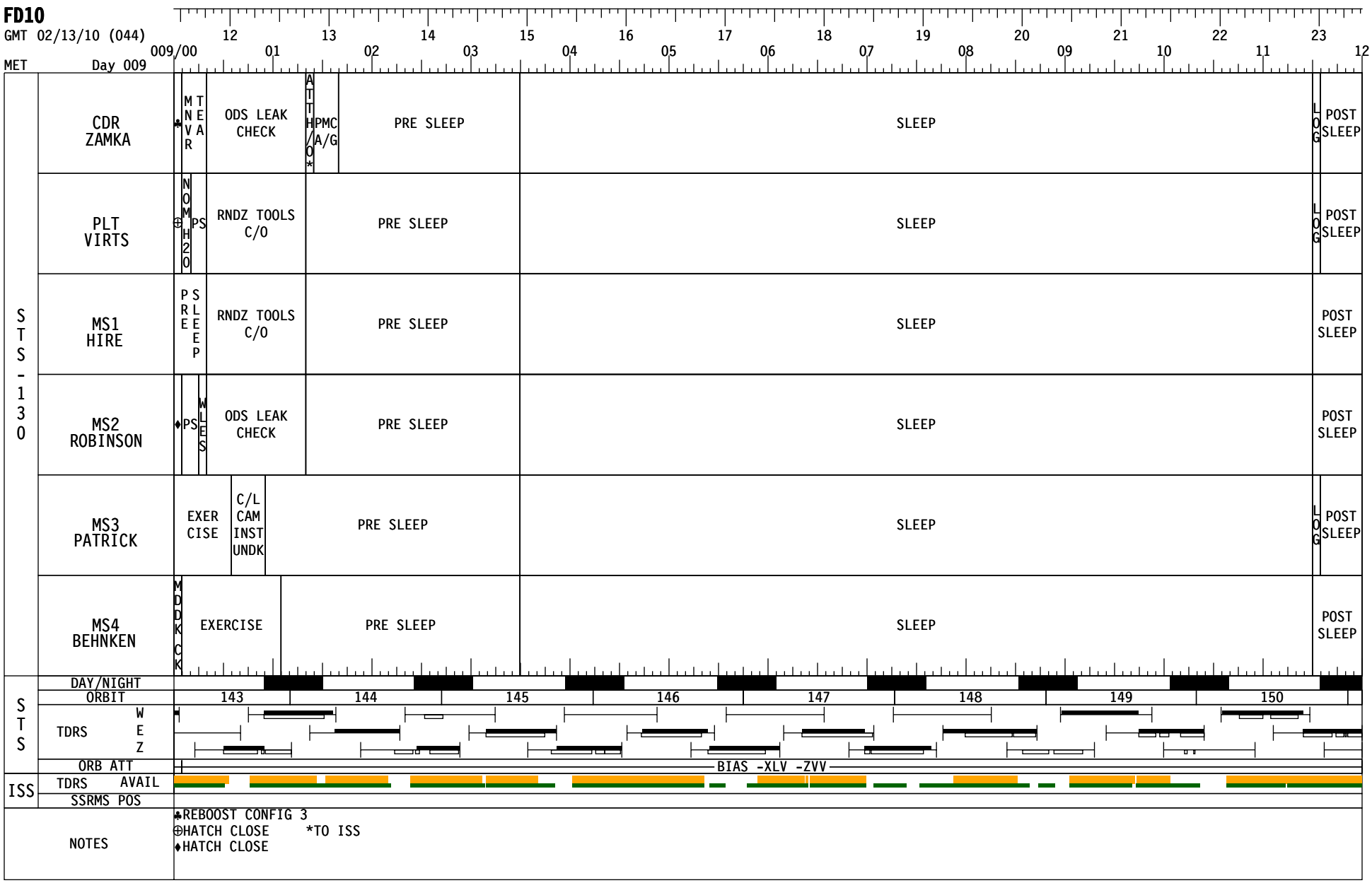
WILLIAMS ISS CDR	POST SLEEP	BLD OPR	POST SLEEP	DPC	PW	CEVIS		T2			O2 SYS TEARDOWN	N2 XFER TERM	CREW CONF	CREW	PHOTO	MEAL	OFF DUTY		CWCI	FILL 1	WELL	HATCH CLOSE						
SURAEV FE-1	POST SLEEP			DPC	PW	RS OPS			TVIS		HYG	VELO	CREW CONF	CREW	PHOTO	MEAL	OFF DUTY				WELL		PW					
KOTOV FE-4	POST SLEEP			DPC	PW	RS OPS			VELO		TVIS		HYG	CREW CONF	CREW	PHOTO	MEAL	OFF DUTY			WELL		PW					
NOGUCHI FE-5	POST SLEEP			DPC	PW	T2		SAMS		DCB RVW	DCB PACK		DCB XFR	CREW CONF	CREW	PHOTO	MEAL	OFF DUTY			CEVIS	WELL		PW				
CREAMER FE-6	SALVA	ADRY	BLD SU	BLOOD	BLD STW	SLV STW	POST SLEEP	DPC	POST SLEEP		CEVIS	DCB RVW	DCB PACK		HD SU	CREW CONF	CREW	PHOTO	PAO	MEAL	OFF DUTY		T2	WELL	HATCH CLOSE				

STS

DAY/NIGHT																												
ORBIT	135				136				137				138				139				140				141			142	143
TDRS W																												
TDRS E																												
TDRS Z																												
ORB ATT	BIAS -XLV -ZVV																											REBOOST

ISS SSRMS POS

NOTES


FD10
GMT 02/13/10 (044)
MET Day 009
12 13 14 15 16 17 18 19 20 21 22 23
009/00 01 02 03 04 05 06 07 08 09 10 11 12
STS-130
CDR ZAMKA
♣ MNVR TEA
ODS LEAK CHECK
ATTH/O* PMC A/G
PRE SLEEP
SLEEP
LOG
POST SLEEP
PLT VIRTS
⊕ NOM H2O PS
RNDZ TOOLS C/O
PRE SLEEP
SLEEP
LOG
POST SLEEP
MS1 HIRE
PRE SLEEP
RNDZ TOOLS C/O
PRE SLEEP
SLEEP
POST SLEEP
MS2 ROBINSON
♦ PS WLES
ODS LEAK CHECK
PRE SLEEP
SLEEP
POST SLEEP
MS3 PATRICK
EXER CISE
C/L CAM INST UNDK
PRE SLEEP
SLEEP
LOG
POST SLEEP
MS4 BEHNKEN
MDDK CK
EXERCISE
PRE SLEEP
SLEEP
POST SLEEP
STS
DAY/NIGHT
ORBIT
143 144 145 146 147 148 149 150
TDRS W E Z
ORB ATT
BIAS -XLV -ZVV
ISS
TDRS AVAIL
SSRMS POS
NOTES
♣REBOOST CONFIG 3
⊕HATCH CLOSE *TO ISS
♦HATCH CLOSE

FD10

GMT 02/13/10 (044)

MET Day 009

12 13 14 15 16 17 18 19 20 21 22 23

009/00 01 02 03 04 05 06 07 08 09 10 11 12

ISS	TDRS AVAIL								
EXP 22	WILLIAMS ISS CDR	♣ CWCI; FILL 2	PW	DPC	PRE SLEEP-ISS	SLEEP	BISP	REACT	POST SLEEP
	SURAEV FE-1	PW	DPC	PRE SLEEP-ISS	SLEEP	POST SLEEP			
	KOTOV FE-4	PW	DPC	PRE SLEEP-ISS	SLEEP	POST SLEEP			
	NOGUCHI FE-5	PW	DPC	PRE SLEEP-ISS	SLEEP	BISP	REACT	POST SLEEP	
	CREAMER FE-6	♣ PW	DPC	PRE SLEEP-ISS	SLEEP	REACT	POST SLEEP		
STS	DAY/NIGHT								
	ORBIT	143	144	145	146	147	148	149	150
	TDRS W E Z								
	ORB ATT	BIAS -XLV -ZVV							
ISS	SSRMS POS								
	NOTES	♣HATCH CLOSE							

FD11

GMT 02/13/10 (044) — 02/14 — 01 — 02 — 03 — 04 — 05 — 06 — 07 — 08 — 09 — 10 — 11

MET Day 009 — 12 — 13 — 14 — 15 — 16 — 17 — 18 — 19 — 20 — 21 — 22 — 23 — 010/00

SEP1^ SEP2^

STS-130

CDR ZAMKA	POST SLEEP				ATTH/O*	MNVR UNDOCK	UNDOCK OPS	FLYAROUND	SEP	MNVR	DUMP	GRPB	PWRDN	RCS*	MEAL		MNVR	STBD	EXERCISE		MNVR	NOSE	NOSE CAP SURVEY (R3)	MNVR	PORT	PORT WING SURVEY (R1)	-ZLV	-XVV		PS
PLT VIRTS	POST SLEEP	IMU	MCIU#	GRPB	PWRUP	POST SLEEP	UNDOCK OPS	FLYAROUND	SEP	COMM1		GRPB	PWRDN		MEAL	UNDK PLAY BACK			EXERCISE			NOSE CAP SURVEY (R2)	PORT WING SURVEY (R3)				OBSS BERTH		
MS1 HIRE	POST SLEEP				SSV-3	POST SLEEP	UNDOCK OPS	FLYAROUND	SEP	SSOR	DSECT	SSV-4	OIU	DEACT	MEAL			STBD WING SURVEY (R3)				NOSE CAP SURVEY (R1)	EXERCISE				LDRI D/L		
MS2 ROBINSON	POST SLEEP		GRPB	PWRUP	PCU^	POST SLEEP	UNDOCK OPS	FLYAROUND	SEP	HTRB	CABT*	SIMO INIT			MEAL	SIMO TERM	MNVR	FLTFLD	STBD WING SURVEY (R2)				EXERCISE	PORT WING SURVEY (R2)				OBSS BERTH		
MS3 PATRICK	POST SLEEP					P/TV03 UNDOCK S/U	P/TV03 UNDOCK OPS			P/TV03	UNDOCK	DEACT			MEAL		MNVR	FLTFLD	STBD WING SURVEY (R1)						EXERCISE				
MS4 BEHNKEN	POST SLEEP			MDKCK			UNDOCK OPS	FLYAROUND	SEP	POST RNDZ PGSC CNFG				WLES	MEAL	COND	CWCT/D						EXERCISE						MDKCK

UNDOCK*

STS

DAY/NIGHT

ORBIT: 151 — 152 — 153 — 154 — 155 — 156 — 157 — 158

TDRS W E Z

ORB ATT: BIAS -XLV -ZVV — UNDOCK/FLYAROUND/SEP — DUMP — STBD SURVEY — NOSE — PORT SURVEY

ISS

TDRS AVAIL

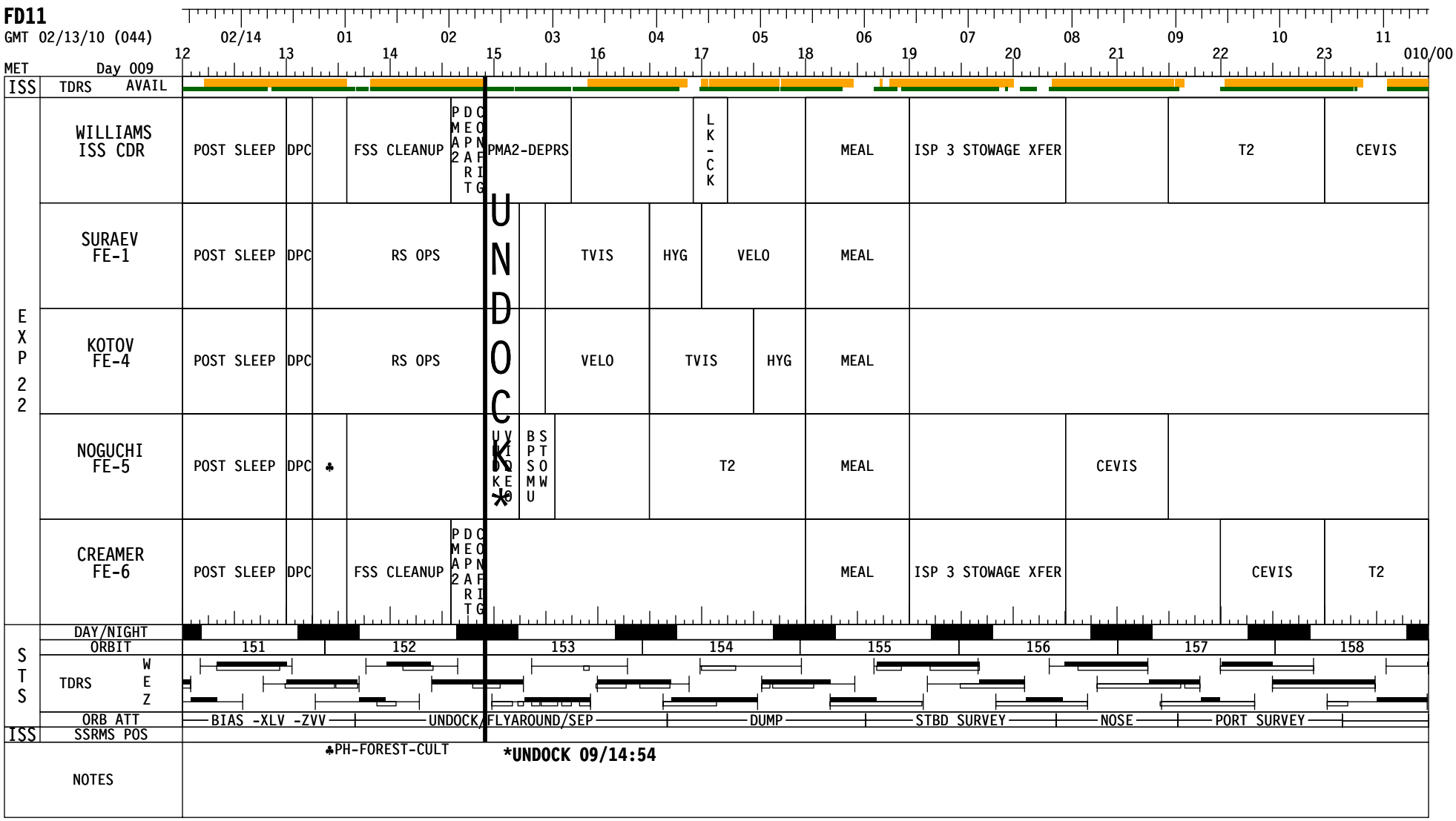
SSRMS POS

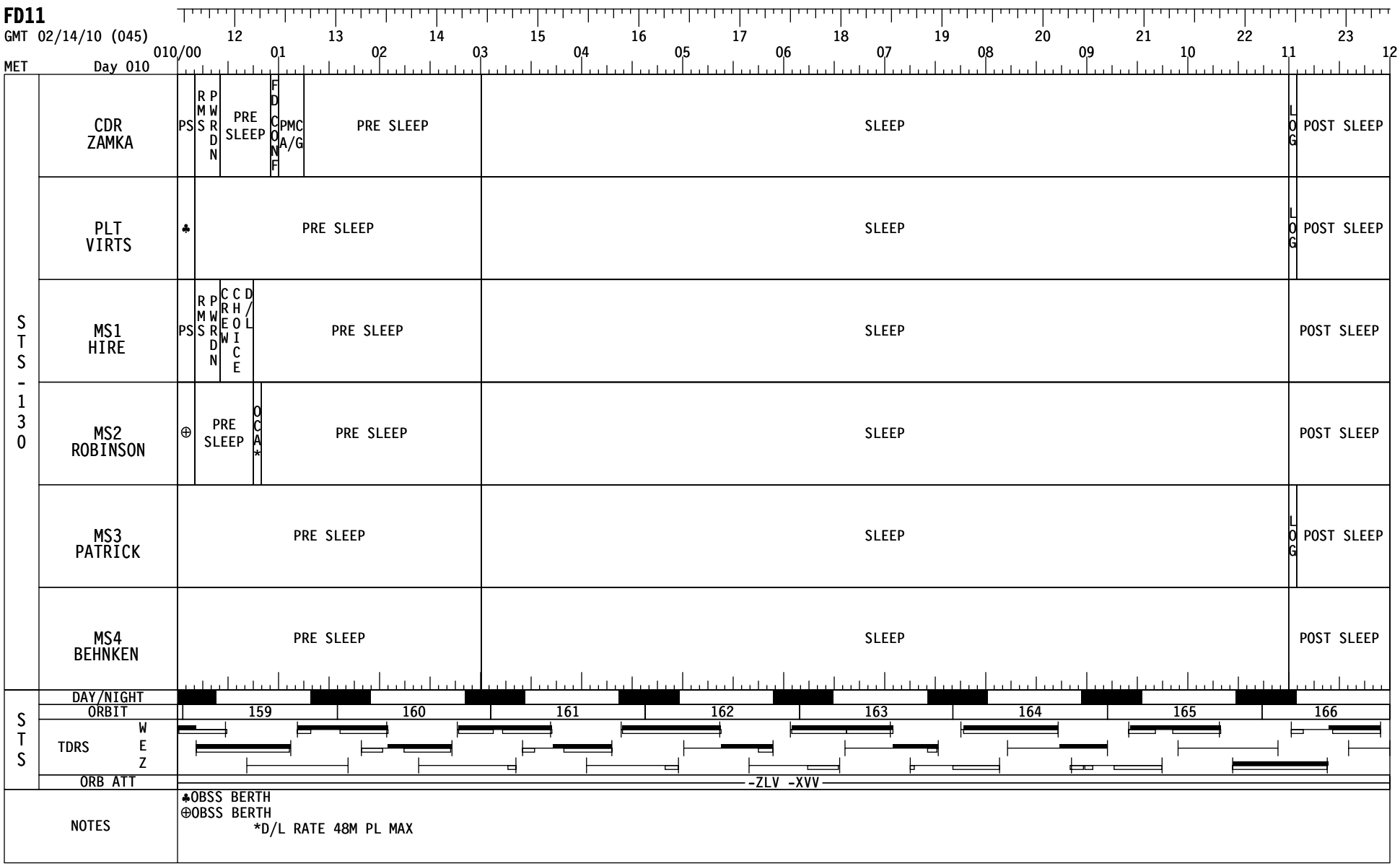
NOTES

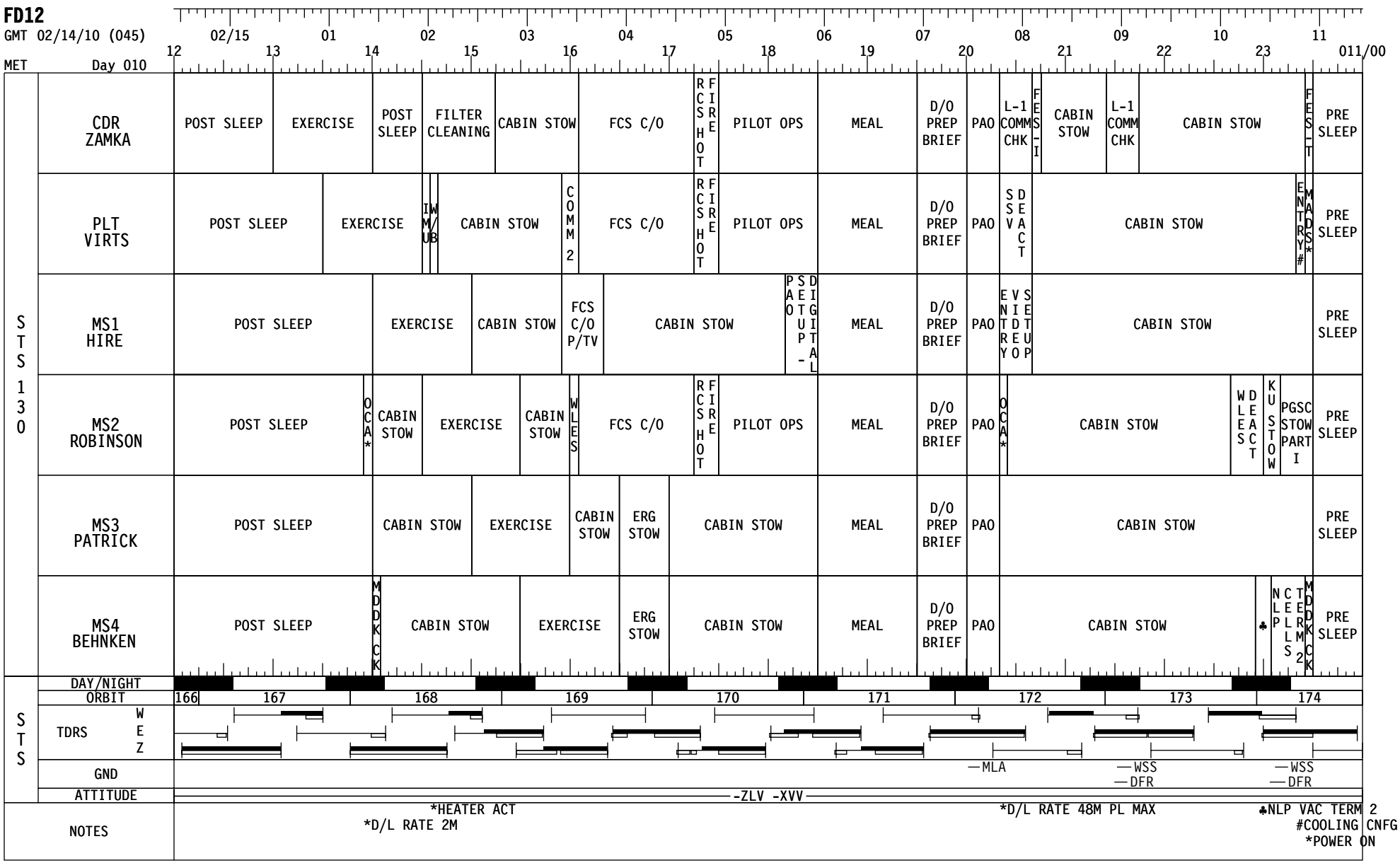
*TO STS
#FILTER CK
^DEACT

***UNDOCK 09/14:54**

*REG RCNFG
*CNTL RECONFIG


FD11
GMT 02/13/10 (044)
MET Day 009
02/14 01 02 03 04 05 06 07 08 09 10 11
12 13 14 15 16 17 18 19 20 21 22 23 010/00
ISS TDRS AVAIL
EXP 22
WILLIAMS ISS CDR
POST SLEEP
DPC
FSS CLEANUP
PMA2 DEPRT
CONFIG
PMA2-DEPRS
LK-CK
MEAL
ISP 3 STOWAGE XFER
T2
CEVIS
SURAEV FE-1
POST SLEEP
DPC
RS OPS
UNDOCK*
TVIS
HYG
VELO
MEAL
KOTOV FE-4
POST SLEEP
DPC
RS OPS
VELO
TVIS
HYG
MEAL
NOGUCHI FE-5
POST SLEEP
DPC
♣
UNDOCK
VIDEO
BPSMU
STOW
T2
MEAL
CEVIS
CREAMER FE-6
POST SLEEP
DPC
FSS CLEANUP
PMA2 DEPRT
CONFIG
MEAL
ISP 3 STOWAGE XFER
CEVIS
T2
STS
DAY/NIGHT
ORBIT
151 152 153 154 155 156 157 158
TDRS
W
E
Z
ORB ATT
BIAS -XLV -ZVV
UNDOCK/FLYAROUND/SEP
DUMP
STBD SURVEY
NOSE
PORT SURVEY
ISS SSRMS POS
NOTES
♣PH-FOREST-CULT
*UNDOCK 09/14:54


FD11
GMT 02/14/10 (045)
MET Day 010
12 13 14 15 16 17 18 19 20 21 22 23
010/00 01 02 03 04 05 06 07 08 09 10 11 12
STS-130
CDR ZAMKA
PS
RMS
PWRDN
PRE SLEEP
FDCONF
PMC A/G
PRE SLEEP
SLEEP
LOG
POST SLEEP
PLT VIRTS
♣
PRE SLEEP
SLEEP
LOG
POST SLEEP
MS1 HIRE
PS
RMS
PWRDN
CREW
CHOICE
D/L
PRE SLEEP
SLEEP
POST SLEEP
MS2 ROBINSON
⊕
PRE SLEEP
OCA*
PRE SLEEP
SLEEP
POST SLEEP
MS3 PATRICK
PRE SLEEP
SLEEP
LOG
POST SLEEP
MS4 BEHNKEN
PRE SLEEP
SLEEP
POST SLEEP
STS
DAY/NIGHT
ORBIT
159 160 161 162 163 164 165 166
TDRS
W
E
Z
ORB ATT
-ZLV -XVV
NOTES
♣OBSS BERTH
⊕OBSS BERTH
*D/L RATE 48M PL MAX


FD12
GMT 02/14/10 (045)
MET Day 010
02/15 01 02 03 04 05 06 07 08 09 10 11
12 13 14 15 16 17 18 19 20 21 22 23 011/00
STS 130
CDR ZAMKA
POST SLEEP
EXERCISE
POST SLEEP
FILTER CLEANING
CABIN STOW
FCS C/O
RCS HOT FIRE
PILOT OPS
MEAL
D/O PREP BRIEF
PAO
L-1 COMM CHK
FES-I
CABIN STOW
L-1 COMM CHK
CABIN STOW
FES-T
PRE SLEEP
PLT VIRTS
POST SLEEP
EXERCISE
IWMUB
CABIN STOW
COMM 2
FCS C/O
RCS HOT FIRE
PILOT OPS
MEAL
D/O PREP BRIEF
PAO
SSV DEACT
CABIN STOW
ENTRY#
MADS*
PRE SLEEP
MS1 HIRE
POST SLEEP
EXERCISE
CABIN STOW
FCS C/O P/TV
CABIN STOW
PAO SETUP - DIGITAL
MEAL
D/O PREP BRIEF
PAO
ENTRY VIDEO SETUP
CABIN STOW
PRE SLEEP
MS2 ROBINSON
POST SLEEP
OCA*
CABIN STOW
EXERCISE
CABIN STOW
WLES
FCS C/O
RCS HOT FIRE
PILOT OPS
MEAL
D/O PREP BRIEF
PAO
OCA*
CABIN STOW
WLES DEACT
KU STOW
PGSC STOW PART I
PRE SLEEP
MS3 PATRICK
POST SLEEP
CABIN STOW
EXERCISE
CABIN STOW
ERG STOW
CABIN STOW
MEAL
D/O PREP BRIEF
PAO
CABIN STOW
PRE SLEEP
MS4 BEHNKEN
POST SLEEP
MDDK CK
CABIN STOW
EXERCISE
ERG STOW
CABIN STOW
MEAL
D/O PREP BRIEF
PAO
CABIN STOW
♣
NLP CELLS
CTERM 2
MDDK CK
PRE SLEEP
STS
DAY/NIGHT
ORBIT
166 167 168 169 170 171 172 173 174
TDRS
W
E
Z
GND
MLA
WSS
DFR
WSS
DFR
ATTITUDE
-ZLV -XVV
NOTES
*HEATER ACT
*D/L RATE 2M
*D/L RATE 48M PL MAX
♣NLP VAC TERM 2
#COOLING CNFG
*POWER ON

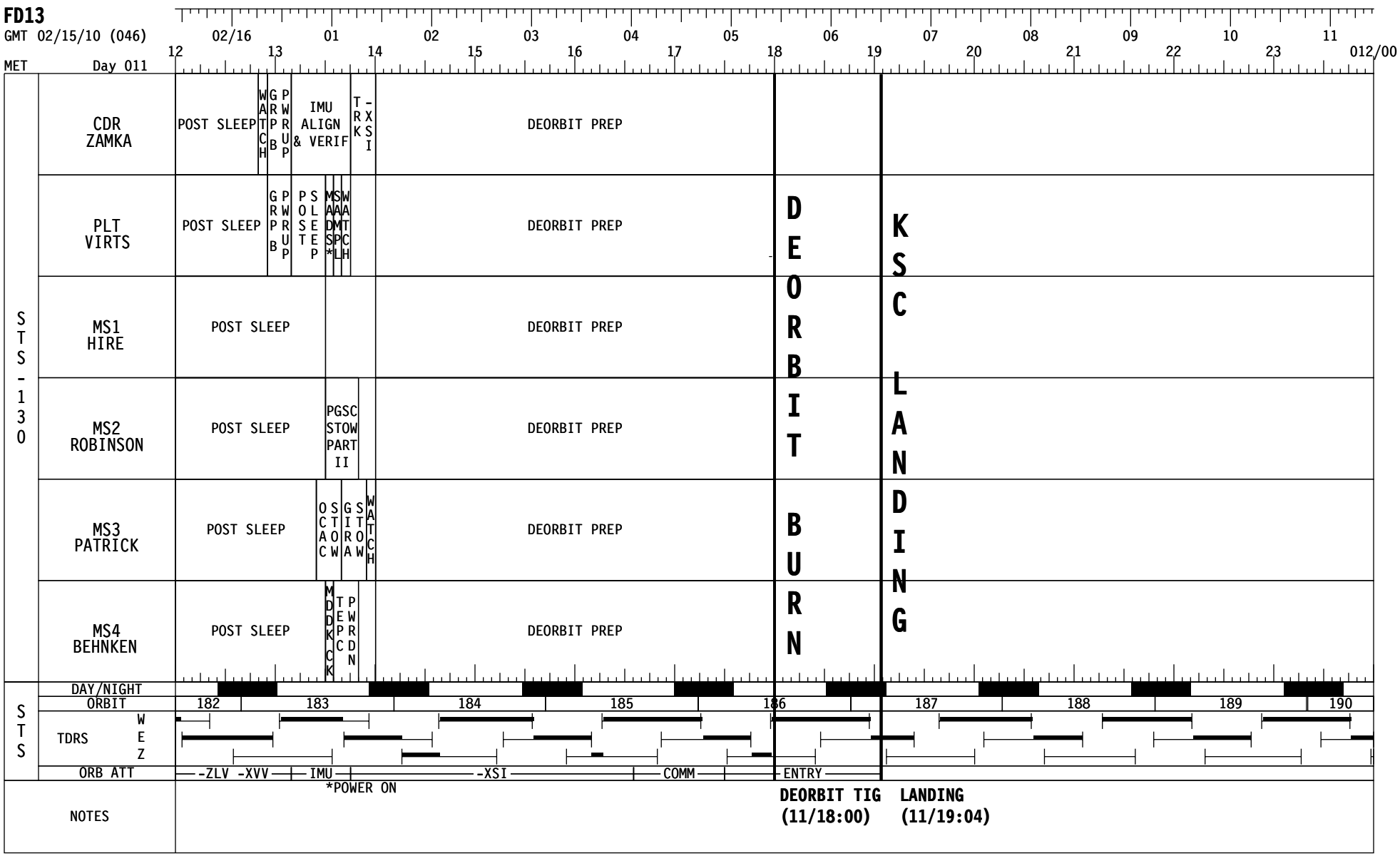
FD12

GMT 02/15/10 (046)

MET Day 011

		011/00	12	13	14	15	16	17	18	19	20	21	22	23	12
STS-130	CDR ZAMKA	PRE SLEEP	FD CONF	PMC A/G	PRE SLEEP			SLEEP					LOG	POST SLEEP	PMC A/G
	PLT VIRTS				PRE SLEEP			SLEEP					LOG	POST SLEEP	
	MS1 HIRE				PRE SLEEP			SLEEP						POST SLEEP	
	MS2 ROBINSON				PRE SLEEP			SLEEP						POST SLEEP	
	MS3 PATRICK				PRE SLEEP			SLEEP					LOG	POST SLEEP	
	MS4 BEHNKEN				PRE SLEEP			SLEEP						POST SLEEP	

STS											
	DAY/NIGHT										
	ORBIT	174	175	176	177	178	179	180	181	182	
	TDRS W										
	TDRS E										
	TDRS Z										
	ORB ATT	-ZLV -XVV									
NOTES											


FD13
GMT 02/15/10 (046)
MET Day 011
02/16 01 02 03 04 05 06 07 08 09 10 11
12 13 14 15 16 17 18 19 20 21 22 23 012/00
STS-130
CDR ZAMKA
POST SLEEP
WATCH
GRPB
PWRUP
IMU ALIGN & VERIF
TRK
-XSI
DEORBIT PREP
PLT VIRTS
POST SLEEP
GRPB
PWRUP
POST SLEEP
MADS*
SAMPL
WATCH
DEORBIT PREP
MS1 HIRE
POST SLEEP
DEORBIT PREP
MS2 ROBINSON
POST SLEEP
PGSC STOW PART II
DEORBIT PREP
MS3 PATRICK
POST SLEEP
OCAC
STOW
GIRA
STOW
WATCH
DEORBIT PREP
MS4 BEHNKEN
POST SLEEP
MDDKCK
TEPC
PWRDN
DEORBIT PREP
DEORBIT BURN
KSC LANDING
STS
DAY/NIGHT
ORBIT
182 183 184 185 186 187 188 189 190
TDRS
W
E
Z
ORB ATT
-ZLV -XVV
IMU
-XSI
COMM
ENTRY
*POWER ON
NOTES
DEORBIT TIG (11/18:00)
LANDING (11/19:04)

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DETAILED TIMELINE

DETAILED TIMELINE

STS-130 FD01

GMT Date 02/04 (035) | W | TDRSE | Z | D/N | ORB | MET Day 000 | STS ATT

CDR ZAMKA | PLT VIRTS | MS1 HIRE | Notes

00:00 — ASC

ASCENT

FD01 EZ ACTIVITIES:

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

12:00

01:00

ACTIVITIES PRIOR TO 00/02:30 ARE IN THE ASCENT AND POST INSERTION CHECKLISTS. THE ORBITER SHOULD BE IN A -ZLV +YVV ATTITUDE UPON ENTERING THE FLIGHT PLAN.

UPLINK β21 + Mask

13:00

BIAS -ZLV +YVV

POST INSERTION

POST INSERTION

POST INSERTION

02:00

14:00

ON-ORBIT INITIALIZATION (PDRS, ON-ORBIT INIT)

L17 Check MCIU filter screen

STS-130 DAP CONFIG (ORB OPS, DAP TABLES)

IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)

P/TV01 VIDEO SETUP (PHOTO/TV, SCENES)

P/TV01 VIDEO SETUP (PHOTO/TV, SCENES)

03:00

ON-ORBIT OMS BURN (ORB OPS, OMS)

ON-ORBIT OMS BURN (ORB OPS, OMS)

UPDATE ORBITAL MNVR PAD

NC1

15:00

< NC1 TIG (03:35)

< NC1 TIG (03:35)

MNVR -ZLV -XVV
TGT=2 BV=3 OM=0
A/AUTO/VERN Init TRK

P/TV01 VIDEO SETUP (PHOTO/TV, SCENES)

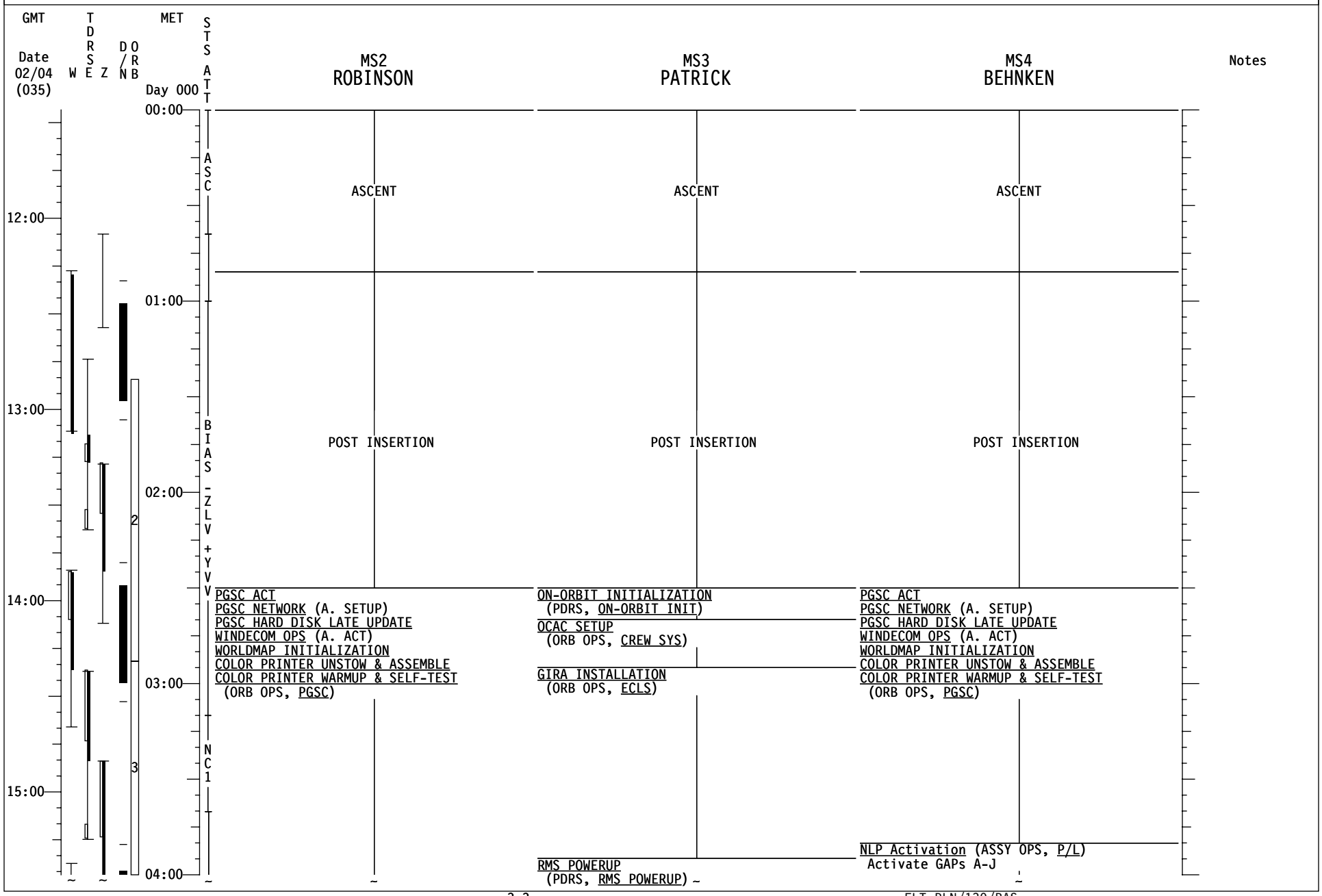
04:00

PRIORITY PWRDN GRP B
See Page 3-4

PRIORITY PWRDN GRP B
See Page 3-4

RMS POWERUP (PDRS, RMS POWERUP)

STS-130 FD01


GMT
Date 02/04 (035)
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TDRSE
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D/N
ORB
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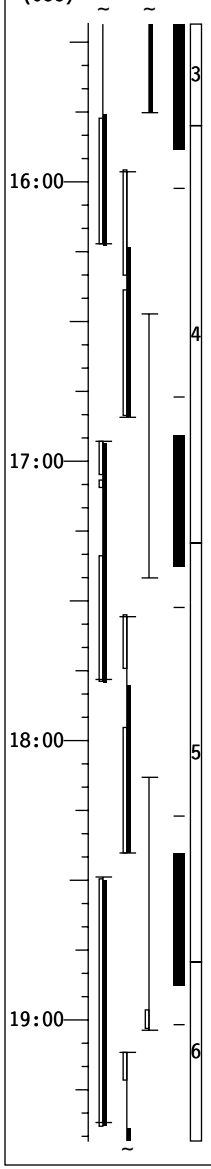
Day 000
STS ATT
MS2 ROBINSON
MS3 PATRICK
MS4 BEHNKEN
Notes
00:00
01:00
02:00
03:00
04:00
12:00
13:00
14:00
15:00
ASC
BIAS-ZLV+YVV
NC1
ASCENT
POST INSERTION
PGSC ACT
PGSC NETWORK (A. SETUP)
PGSC HARD DISK LATE UPDATE
WINDECOM OPS (A. ACT)
WORLDMAP INITIALIZATION
COLOR PRINTER UNSTOW & ASSEMBLE
COLOR PRINTER WARMUP & SELF-TEST
(ORB OPS, PGSC)
ON-ORBIT INITIALIZATION
(PDRS, ON-ORBIT INIT)
OCAC SETUP
(ORB OPS, CREW SYS)
GIRA INSTALLATION
(ORB OPS, ECLS)
RMS POWERUP
(PDRS, RMS POWERUP)
NLP Activation (ASSY OPS, P/L)
Activate GAPs A-J
2
3

STS-130 FD01

GMT Date 02/04 (035) | W | TDRSE | Z | D/N | ORB | MET Day 000 | STS ATI



MET	CDR ZAMKA	PLT VIRTS	MS1 HIRE	Notes
04:00	PRIOR PWRDN GRP B (ORB PKT, PRIOR PWRDN) Steps 5,6(Single G2),9,10 & 12 (In Step 12, IMU 2 STBY)	PRIOR PWRDN GRP B (ORB PKT, PRIOR PWRDN) Steps 5,6(Single G2),9,10 & 12 (In Step 12, IMU 2 STBY)	RMS POWERUP (PDRS, RMS POWERUP)	
	AFT CONTROLLER C/O (ORB OPS, GNC)	SSPTS APCU ACT A15 APCU 1,2 OUTPUT(two) - ON APCU 1,2 CONV(two) - ON	RMS CHECKOUT (PDRS, RMS C/O)	
	ELEVON PARK (ORB OPS, GNC)			
	APU FD1 RECONFIG R2 BLR PWR(three)-OFF A12 APU HTR GG/FU PMP(three)-A AUTO PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PLAYBACK (DIGITAL) (PHOTO/TV, CUE CARD) ET HANDHELD VIDEO D/L KU TDRE: 04:32-04:54		
		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	RMS POWERDOWN(PDRS, RMS POWERDOWN)Step 1	
05:00	PRIVATE MEDICAL CONFERENCE L9 PAYLOAD STATION A/G (two) - OFF Perform via A/G2		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
	DON ACTIWATCH (ORB OPS, SDBI)	DON ACTIWATCH (ORB OPS, SDBI)		
06:00		**CREW WAKE AT 00/14:00**		
07:00	SLEEP	SLEEP	SLEEP	
08:00				

-ZLV

-XVV

STS-130 FD01

GMT Date 02/04 (035) | W | TDRS E | Z | D/N | ORB | MET Day 000 | STS ATI

MS2 ROBINSON | MS3 PATRICK | MS4 BEHNKEN | Notes

04:00

PGSC ACT
See Page 3-3

RMS POWERUP
(PDRS, RMS POWERUP)

RMS CHECKOUT
(PDRS, RMS C/O)

NLP Activation (ASSY OPS, P/L)
Activate GAPs A-J

NLP Activation
(ASSY OPS, P/L)
Activate GAPs 1-8

WLES ACTIVATION & CHECKOUT
(ORB OPS, WLE SENSORS)

TISSUE EQUIVALENT PROPORTIONAL COUNTER (TEPC)
(ORB OPS, CREW SYSTEMS) Power On

16:00

UMBILICAL WELL TPS CAMERA IMAGERY D/L
(ORB OPS, PGSC)

SHUTTLE EMERGENCY EYEWASH (SEE)
Unstow, attach on or near galley
Fill one drink container, label
"FOR EYE RINSE ONLY"
Attach on or near galley
SEE stowed in MA9N

RMS POWERDOWN(PDRS, RMS POWERDOWN)Step 1

05:00

IMAGE FILE TRANSFER (P/TV,D2Xs)
ET HANDHELD PHOTO

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MDDK STATUS CK(ASSY OPS,P/L)GLACIER & CGBA

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

17:00

-ZLV

DON ACTIWATCH (ORB OPS, SDBI)

06:00

CREW WAKE AT 00/14:00

-XVV

18:00

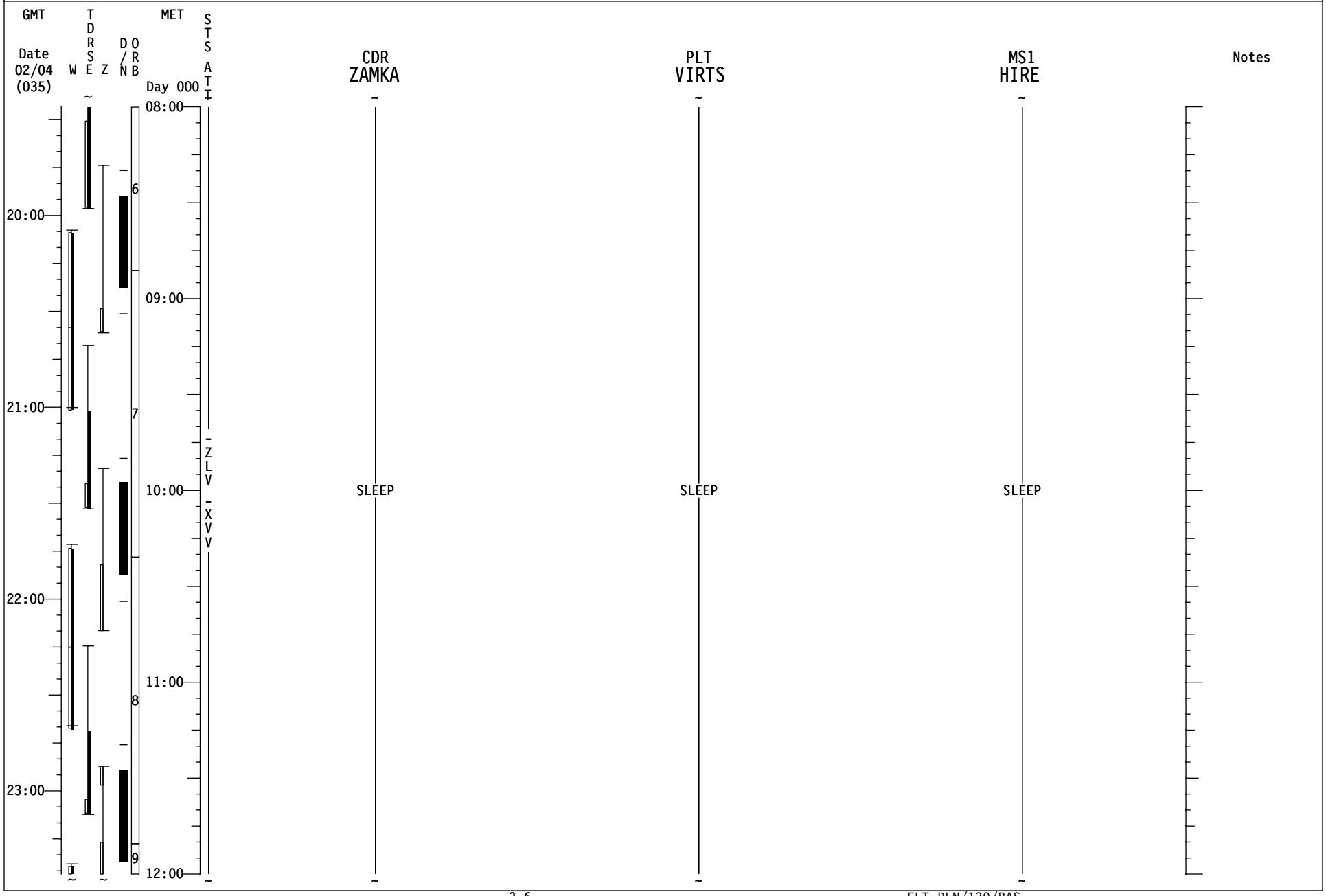
07:00

SLEEP | SLEEP | SLEEP

19:00

08:00

STS-130 FD01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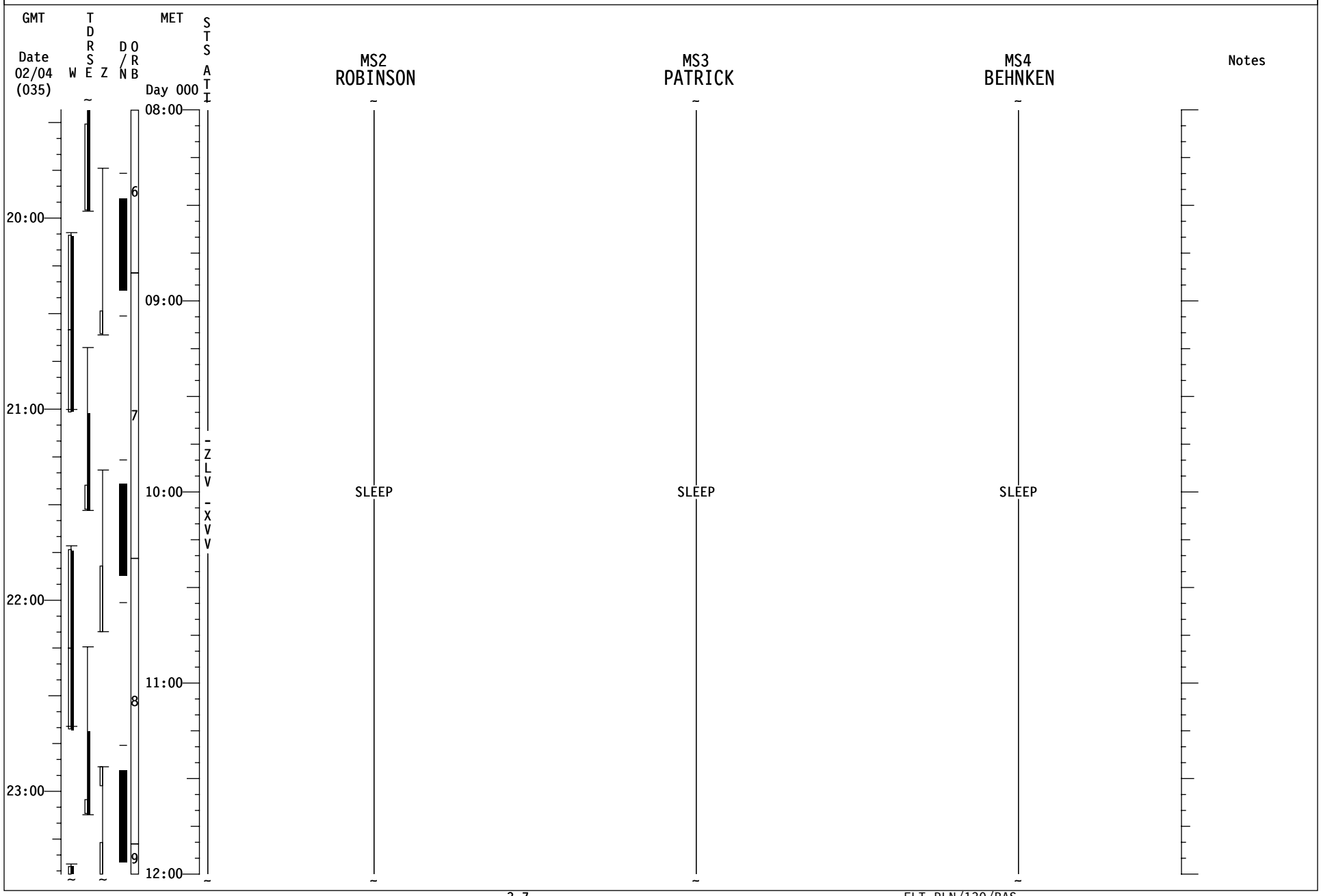
CDR
ZAMKA
PLT
VIRTS
MS1
HIRE
Notes
20:00
21:00
22:00
23:00
08:00
09:00
10:00
11:00
12:00
6
7
8
9
-ZLV
-XVV
SLEEP
SLEEP
SLEEP

STS-130 FD01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02/04
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S
A
T
I
MS2
ROBINSON
MS3
PATRICK
MS4
BEHNKEN
Notes
20:00
21:00
22:00
23:00
08:00
09:00
10:00
11:00
12:00
6
7
8
9
-ZLV
-XVV
SLEEP
SLEEP
SLEEP

STS-130 FD02

GMT Date 02/04 (035) | W | T D R S E | Z | D/N | O R B | MET Day 000 | STS ATI

CDR ZAMKA | PLT VIRTS | MS1 HIRE | Notes

12:00 — 13:00 — 14:00 — 15:00 — 16:00

00:00 — 01:00 — 02:00 — 03:00

9 — 10 — 11

-ZLV -XVV

SLEEP | SLEEP | SLEEP

FD02 EZ ACTIVITIES:
√OCAC FILTER
TEPC (STATUS CHECK)
(ORB OPS, CREW SYS)
HARD REBOOT ALL PGSCs EXCEPT:
STS-6(WLES),STS-5(RPOP2),&
OCA ROUTER.

SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

STS-130 FD02

GMT Date 02/04 (035)	W	TDRS E	Z	D/N	ORB	MET Day 000	STS ATI	MS2 ROBINSON	MS3 PATRICK	MS4 BEHNKEN	Notes
00:00					9	12:00					
						13:00		SLEEP	SLEEP	SLEEP	
01:00							-ZLV				
					10	14:00	-XVV	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	SLEEP LOGBOOK (ORB OPS, SDBI) POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
02:00											
						15:00					
					11						
03:00						16:00					

STS-130 FD02

GMT Date 02/05 (036) | W | TDRSE | Z | D/N | ORB | MET Day 000 | STS ATI

CDR ZAMKA

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)
L17 Check MCIU filter screen
PRIOR PWRUP GRP B(ORB PKT, PRIOR PWRDN)
Step 12 (In step 12, Recover IMU 2),
10,9,6 (Dual G2),5

ON-ORBIT OMS BURN
(ORB OPS, OMS)

< NC2 TIG (17:09)

MNVR (TRK) -ZLV -XVV
TGT=2 BV=3 OM=0
A/AUTO/VERN, Init TRK

PRIOR PWRDN GRP B(ORB PKT, PRIOR PWRDN)
Steps 5,6(Single G2),9,10 & 12
(In Step 12,IMU 2 STBY)

RCS/OMS POD HTR RECONFIG A
O2 REPRESS INIT C5 DIRECT O2 vlv - OP
R2 BLR CNTLR/HTR (three) - B
O2 REPRESS TERM on MCC GO
C5 DIRECT O2 vlv - CL
P/TV08 EXTERNAL SURVEY
(PHOTO/TV, SCENES) OMS POD SURVEY
SETUP, Step 1
OPS, Item 1

MNVR (TRK) BIAS +YSI (STBD SURVEY)
TGT=4 BV=5 P=0 Y=43 OM=217
A14/AUTO/VERN, Init TRK

OBSS LDRI RCC SURVEY - STBD
(PDRS, OBSS OPERATIONS)

A A14 RCS/OMS HTR L POD A - OFF
B - AUTO
R POD A - OFF
B - AUTO

PLT VIRTS

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

APCU 2: Disable Power to OBSS
A15 APCU 2 CONV - OFF
PRIOR PWRUP GRP B(ORB PKT, PRIOR PWRDN)
Step 12 (In step 12, Recover IMU 2),
10,9,6 (Dual G2),5

ON-ORBIT OMS BURN
(ORB OPS, OMS)

< NC2 TIG (17:09)

PRIOR PWRDN GRP B(ORB PKT, PRIOR PWRDN)
Steps 5,6(Single G2),9,10 & 12
(In Step 12,IMU 2 STBY)

FC PURGE - MANUAL
(ORB OPS, EPS)

CRYO O2 TANK HEATER SENSOR CHECK
(ORB OPS, EPS)

MIDDECK TRANSFER PREP
Ref. MSG XXX

MEAL

MS1 HIRE

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

OBSS UNBERTH
(PDRS, OBSS OPERATIONS)

OBSS LDRI RCC SURVEY - STBD
(PDRS, OBSS OPERATIONS)

Notes

UPDATE
ORBITAL MNVR
PAD

STS-130 FD02

GMT Date 02/05 (036) | W | TDRSE | Z | D/N | ORB | MET Day 000 | STS ATI

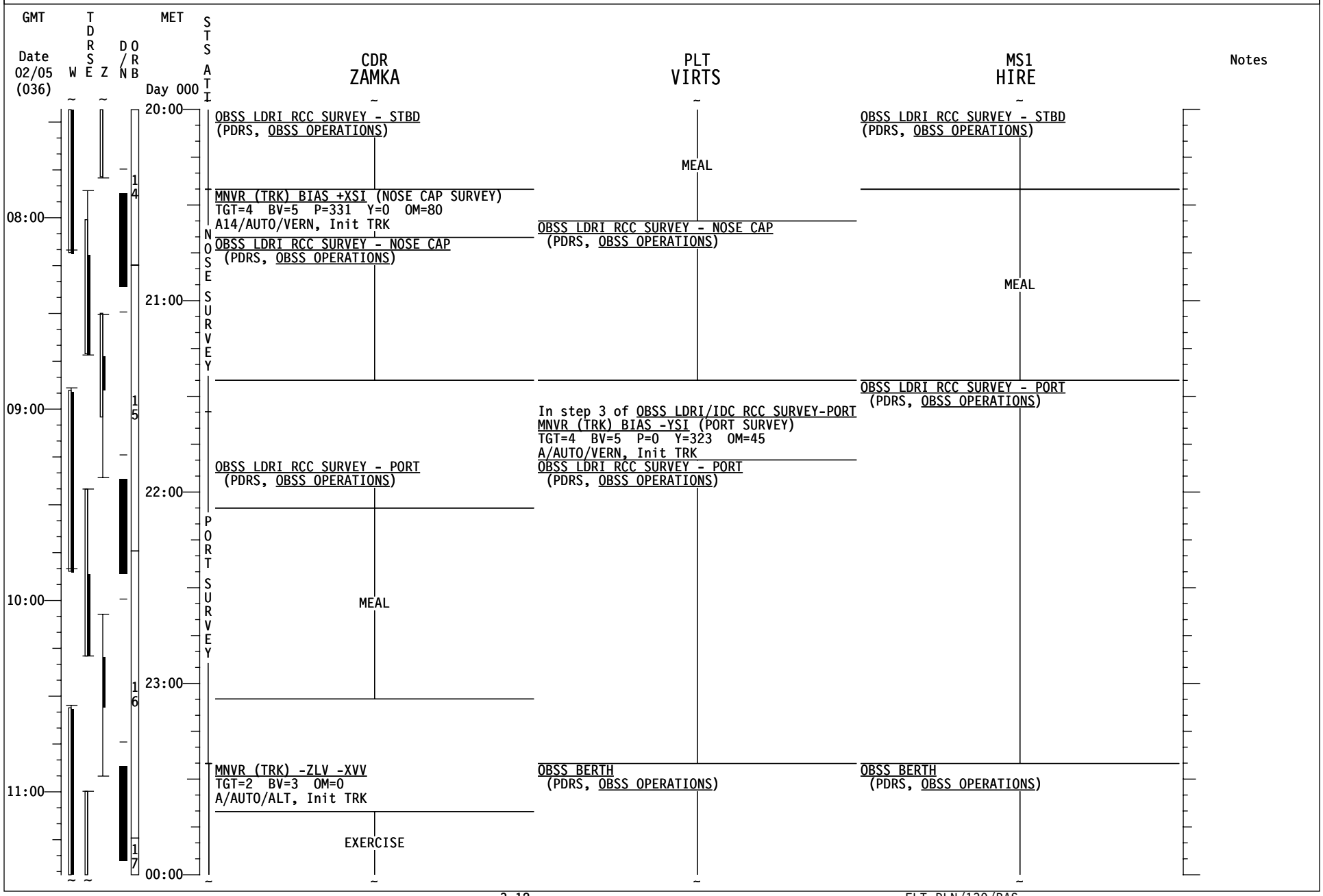
MS2 ROBINSON	MS3 PATRICK	MS4 BEHNKEN	Notes
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
	CYCLE ERGOMETER OPS (ORB OPS, CREW SYS) Perform ERGOMETER SETUP	MDDK STATUS CK(ASSY OPS,P/L)GLACIER & CGBA CYCLE ERGOMETER OPS (ORB OPS, CREW SYS) Perform ERGOMETER SETUP	
PGSC SETUP (PART II) Setup the following: PGSC NETWORK (ORB OPS, PGSC) Setup remaining PGSCs PGSC HARD DISK LATE UPDATE (ORB OPS, PGSC) Update remaining PGSCs	OBSS UNBERTH (PDRS, OBSS OPERATIONS)	EXERCISE	
EXERCISE	OBSS LDRI RCC SURVEY - STBD (PDRS, OBSS OPERATIONS)		
MEAL		SHUTTLE/ISS H2O CONTAINER FILL (ORB OPS, ECLS) Perform EQUIP PREP and WATER TRANSFER HOSE PURGE	
		GALLEY OVERNIGHT CONFIG (ORB OPS,ECLS)	

Time scale: 04:00, 05:00, 06:00, 07:00; 16:00, 17:00, 18:00, 19:00, 20:00

STS ATI: NC2 - ZLV - XVV - STBD SURVEY

ORB: 11, 12, 13, 14

STS-130 FD02


GMT
Date 02/05 (036)
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ORB
MET
Day 000
STS ATT
CDR ZAMKA
PLT VIRTS
MS1 HIRE
Notes
20:00
21:00
22:00
23:00
00:00
08:00
09:00
10:00
11:00
14
15
16
17
NOSE SURVEY
PORT SURVEY
OBSS LDRI RCC SURVEY - STBD
(PDRS, OBSS OPERATIONS)
MNVR (TRK) BIAS +XSI (NOSE CAP SURVEY)
TGT=4 BV=5 P=331 Y=0 OM=80
A14/AUTO/VERN, Init TRK
OBSS LDRI RCC SURVEY - NOSE CAP
(PDRS, OBSS OPERATIONS)
OBSS LDRI RCC SURVEY - PORT
(PDRS, OBSS OPERATIONS)
MEAL
MNVR (TRK) -ZLV -XVV
TGT=2 BV=3 OM=0
A/AUTO/ALT, Init TRK
EXERCISE
MEAL
OBSS LDRI RCC SURVEY - NOSE CAP
(PDRS, OBSS OPERATIONS)
In step 3 of OBSS LDRI/IDC RCC SURVEY-PORT
MNVR (TRK) BIAS -YSI (PORT SURVEY)
TGT=4 BV=5 P=0 Y=323 OM=45
A/AUTO/VERN, Init TRK
OBSS LDRI RCC SURVEY - PORT
(PDRS, OBSS OPERATIONS)
OBSS BERTH
(PDRS, OBSS OPERATIONS)
OBSS LDRI RCC SURVEY - STBD
(PDRS, OBSS OPERATIONS)
MEAL
OBSS LDRI RCC SURVEY - PORT
(PDRS, OBSS OPERATIONS)
OBSS BERTH
(PDRS, OBSS OPERATIONS)

STS-130 FD02

GMT Date 02/05 (036) | W | TDRS E | TDRS Z | D/N | ORB | MET Day 000 | STS ATI

MS2 ROBINSON | MS3 PATRICK | MS4 BEHNKEN | Notes

20:00

MS2: MEAL

MS3: OBSS LDRI RCC SURVEY - STBD (PDRS, OBSS OPERATIONS)

MS4: DIDB FILL
Fill 2 DIDBs from galley
Remove gas
Dispose of fill tool in wet trash

√All EVA drink bag fills complete,THEN:
GALLEY MORNING CONFIG (ORB OPS,ECLS)

08:00

NOSE SURVEY

MS2: OBSS LDRI RCC SURVEY - NOSE CAP (PDRS, OBSS OPERATIONS)

21:00

MS3: MEAL

MS4: MEAL

MS2: OBSS LDRI RCC SURVEY - PORT (PDRS, OBSS OPERATIONS)

MS3: EMU CHECKOUT PREP (EVA, AIRLOCK CONFIG)

MS4: EMU CHECKOUT PREP (EVA, AIRLOCK CONFIG)

09:00

MS2: EMU CHECKOUT (EVA, CHECKOUTS)
EMU POWERUP AND COMM CHECK,Steps 19-23

MS3: EMU CHECKOUT (EVA, CHECKOUTS)

MS4: EMU CHECKOUT (EVA, CHECKOUTS)

22:00

PORT SURVEY

MS2: OBSS LDRI RCC SURVEY - PORT (PDRS, OBSS OPERATIONS)

10:00

23:00

MS2: EMU PREP FOR ISS TRANSFER (EVA, AIRLOCK CONFIG)

MS3: EMU PREP FOR ISS TRANSFER (EVA, AIRLOCK CONFIG)

MS4: EMU PREP FOR ISS TRANSFER (EVA, AIRLOCK CONFIG)

11:00

00:00

STS-130 FD02

GMT Date 02/05 (036) | W | TDRSE | Z | D/N | ORB | MET Day 001 | STS ATI

CDR ZAMKA	PLT VIRTS	MS1 HIRE	Notes
EXERCISE	OBSS BERTH (PDRS, OBSS OPERATIONS)	OBSS BERTH (PDRS, OBSS OPERATIONS)	
FILTER CLEANING (IFM, SCHEDULED MAINTENANCE)	EXERCISE	RNDZ TOOLS CHECKOUT (RNDZ, RNDZ TOOLS)	TFL 192
ON-ORBIT +X RCS BURN (ORB OPS, RCS)	APCU 2: React for Node 3 Heaters A15 APCU 2 CONV - ON ON-ORBIT +X RCS BURN (ORB OPS, RCS)	EXERCISE	TFL 188
< NC3 TIG (02:02) MNVR (TRK) -ZLV -XVV TGT=2 BV=3 OM=0 A/AUTO/VERN Init TRK FUTURE LOADED MNVR -ZLV -XVV TGT=2 BV=3 OM=270 A/AUTO/VERN (14:05) Init TRK PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	< NC3 TIG (02:02) FC MONITORING SYS (FCMS) OPS (ORB OPS, EPS) PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS) CREW CHOICE DOWNLINK (CUE CARD, PLAYBACK) KU TDRE: 02:51-03:45 PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
FLIGHT DIRECTOR CONFERENCE PRIVATE MEDICAL CONFERENCE L9 PAYLOAD STATION A/G (two) - OFF Perform via A/G2 PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			

STS-130 FD02

GMT Date 02/05 (036) | W | TDRSE | Z | D/N | ORB | MET Day 001 | STS ATI

MS2 ROBINSON

- 00:00 EMU PREP FOR ISS TRANSFER (EVA, AIRLOCK CONFIG)
- WLES RNDZ TOOLS C/O PREP(ORB OPS,WLE SENSORS)
- RNDZ TOOLS CHECKOUT (RNDZ, RNDZ TOOLS)
- 01:00 PLAYBACK (DIGITAL) (PHOTO/TV, CUE CARD)
  LDRI SURVEYS
  KU TDRE (01:12-02:07)
  Gimbal Flip 01:42
- 02:00 PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- 03:00 RECONFIGURE OCA DOWNLINK RATE (PL MAX) (ORB OPS, PGSC) Part C (Omit step 4)
  PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- 04:00

MS3 PATRICK

- EMU PREP FOR ISS TRANSFER (EVA, AIRLOCK CONFIG)
- C/L CAMR INSTALL (PHOTO/TV, C/L CAMR)
- DOCKING MECH INITIALIZATION
  DOCKING MECH POWERUP
  DOCKING RING EXTENSION
  DOCKING MECH POWERDOWN (RNDZ, APDS)
- EXERCISE
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MS4 BEHNKEN

- EMU PREP FOR ISS TRANSFER (EVA, AIRLOCK CONFIG)
- C/L CAMR INSTALL (PHOTO/TV, C/L CAMR)
- DOCKING MECH INITIALIZATION
  DOCKING MECH POWERUP
  DOCKING RING EXTENSION
  DOCKING MECH POWERDOWN (RNDZ, APDS)
- MDDK STATUS CK(ASSY OPS,P/L)GLACIER & CGBA
  PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

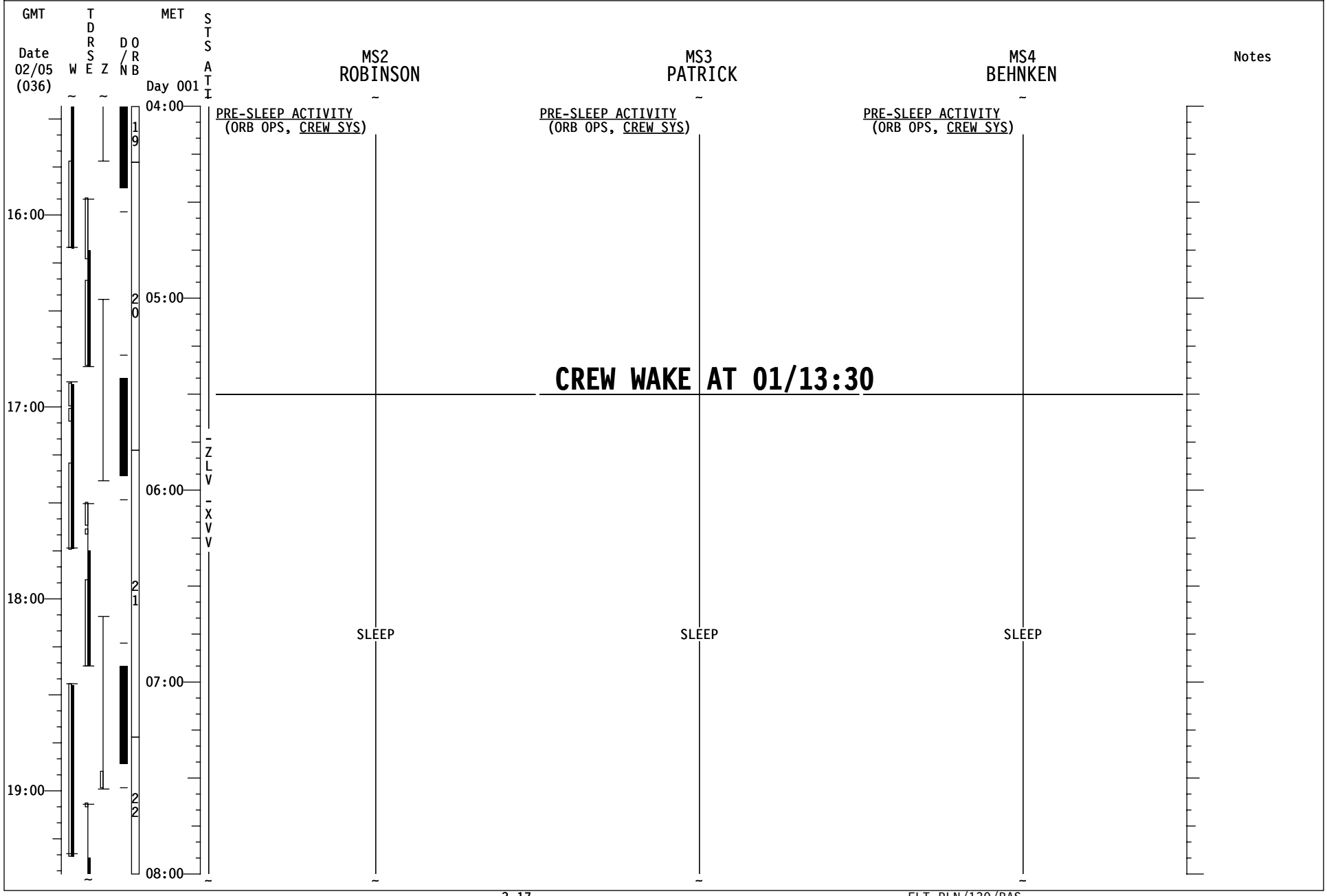
Notes

- TFL 192
- TFL 188

STS-130 FD02

GMT Date 02/05 (036)	W	T D R S E	Z	D / N	O R B	MET Day 001	STS ATI	CDR ZAMKA	PLT VIRTS	MS1 HIRE	Notes
04:00					19	04:00		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
16:00											
05:00					20	05:00					
								CREW WAKE AT 01/13:30			
17:00											
06:00						06:00	-ZLV -XVV				
18:00					21			SLEEP	SLEEP	SLEEP	
07:00						07:00					
19:00					22						
08:00						08:00					

STS-130 FD02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MS2
ROBINSON
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MS4
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04:00
05:00
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08:00
16:00
17:00
18:00
19:00
19
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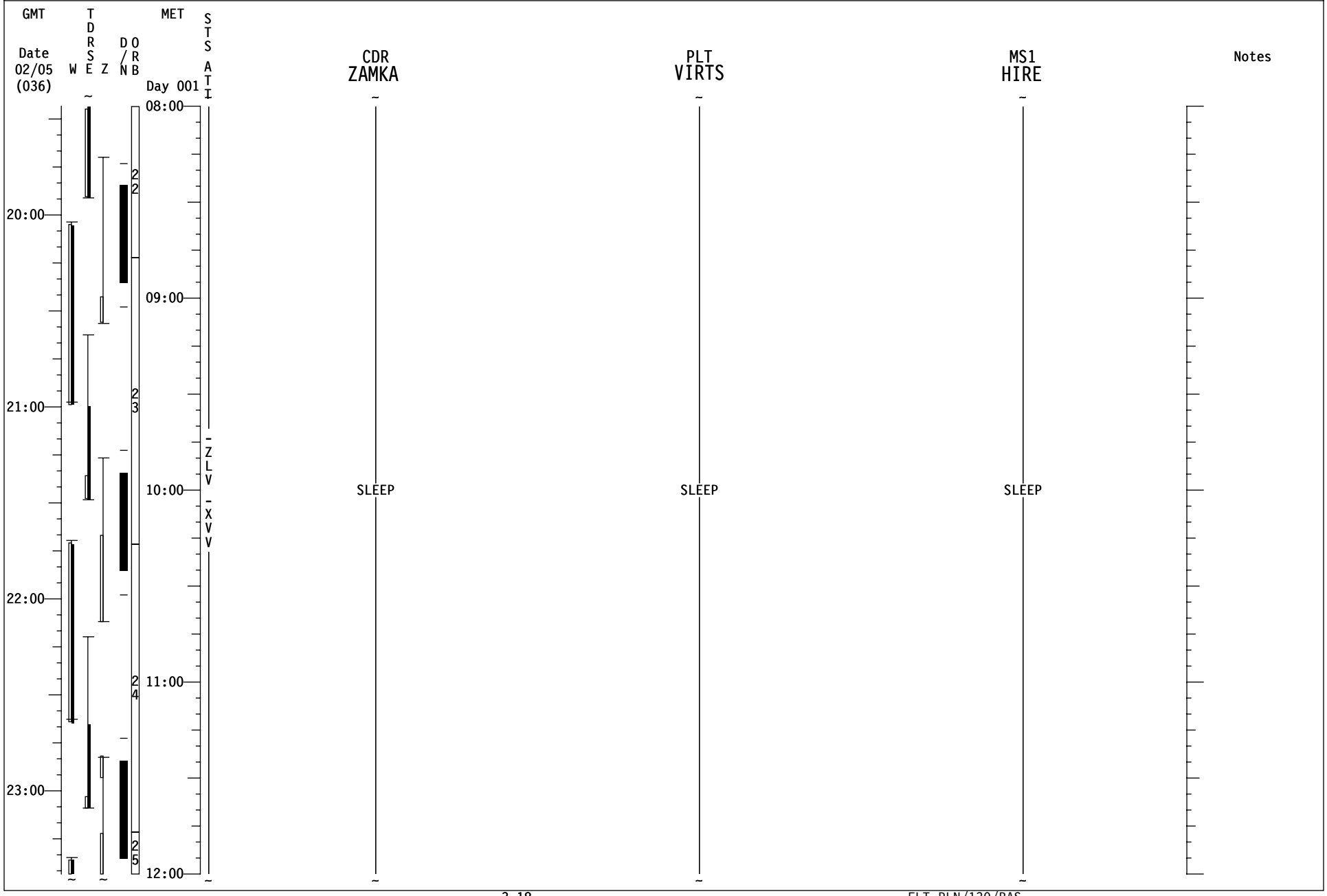
21
22
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
CREW WAKE AT 01/13:30
-ZLV-XVV
SLEEP
SLEEP
SLEEP

STS-130 FD02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-ZLV
-XVV
CDR
ZAMKA
SLEEP
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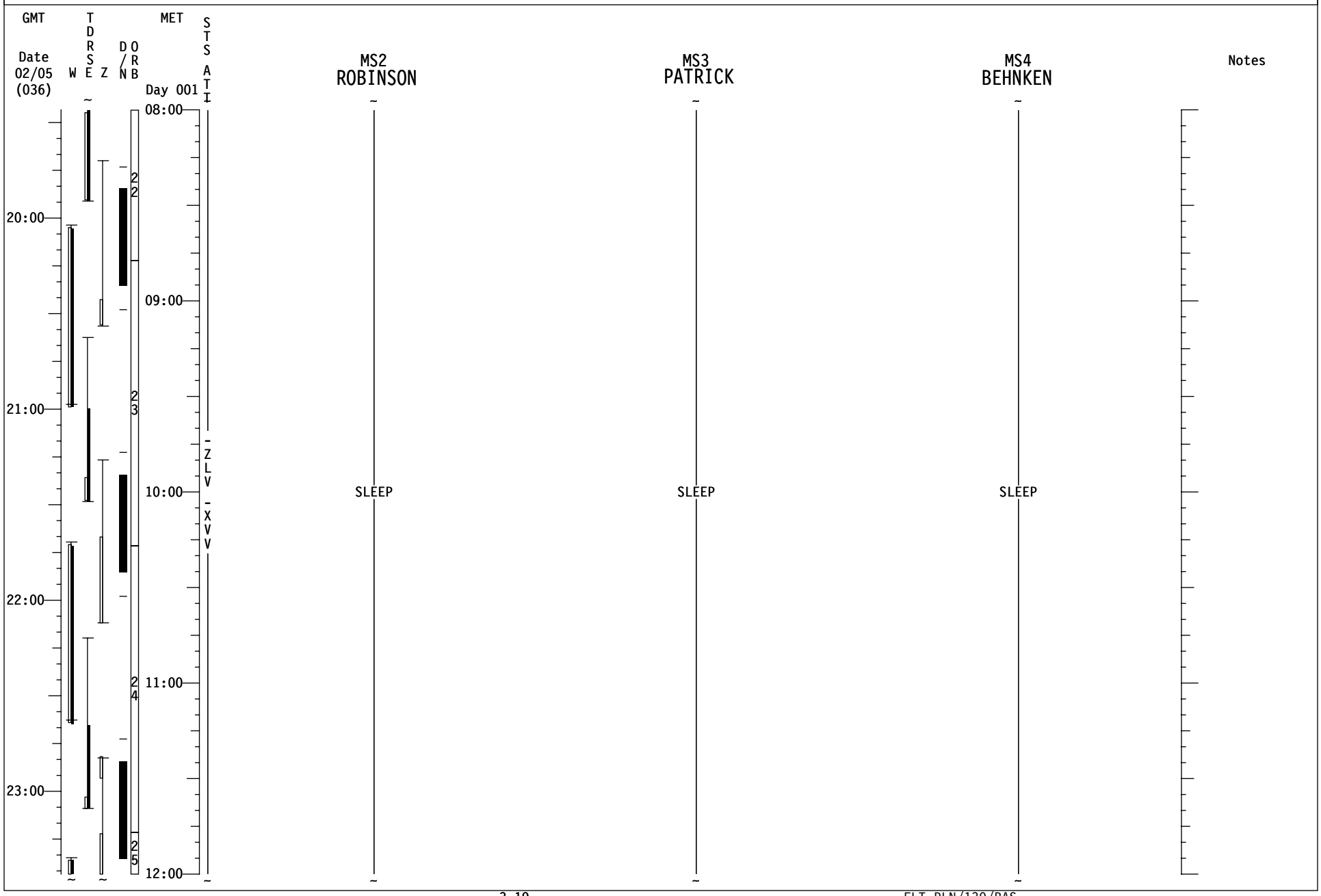
VIRTS
SLEEP
MS1
HIRE
SLEEP
Notes

STS-130 FD02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MS2
ROBINSON
SLEEP
MS3
PATRICK
SLEEP
MS4
BEHNKEN
SLEEP
Notes

STS-130 FD03

GMT Date 02/05 (036) | W | TDRS E | Z | D/N | ORB | MET Day 001 | STS ATI

CDR ZAMKA | PLT VIRTS | MS1 HIRE | Notes

12:00 — 13:00 — 14:00 — 15:00 — 16:00

00:00 — 01:00 — 02:00 — 03:00

25 — 26 — 27

-ZLV -XVV -ZLV +YVV

FD03 EZ ACTIVITIES:
√OCAC FILTER
TEPC (STATUS CHECK)
(ORB OPS, CREW SYS)
HARD REBOOT ALL PGSCs EXCEPT:
STS-6(WLES),STS-5(RPOP2),&
OCA ROUTER.

SLEEP | SLEEP | SLEEP

SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

< FUTURE MNVR INIT (SIMO DUMP)

Transition to RNDZ C/L at MET 1/15:20

RNDZ PET 00:00 (Ti) at MET 1/18:21

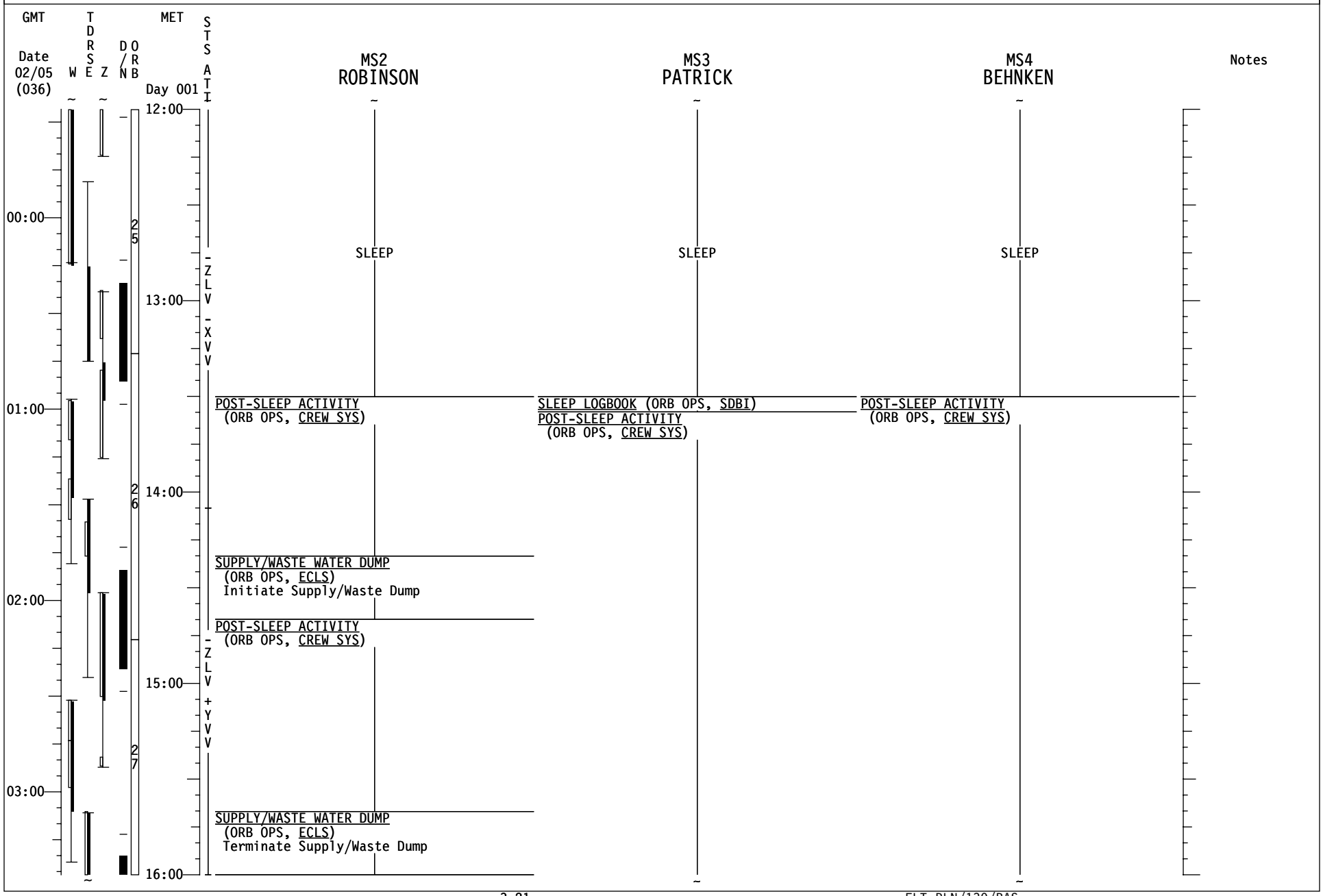
IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)
L17 Check MCIU filter screen
PRIOR PWRUP GRP B(ORB PKT,PRIOR PWRDN)
Step 12 (In step 12, Recover IMU 2),
10,9,6 (Triple G2),5
RENDEZVOUS TIMELINE
(RNDZ, RENDEZVOUS T/L)

RCS/OMS POD HTR RECONFIG A
PRIOR PWRUP GRP B(ORB PKT,PRIOR PWRDN)
Step 12 (In step 12, Recover IMU 2),
10,9,6 (Triple G2),5
RENDEZVOUS TIMELINE
(RNDZ, RENDEZVOUS T/L)

TRANSFER UPDATE
Ref. Transfer List & MSG XXX
RENDEZVOUS TIMELINE
(RNDZ, RENDEZVOUS T/L)

A A14 RCS/OMS HTR L POD B - OFF
A - AUTO
R POD B - OFF
A - AUTO

STS-130 FD03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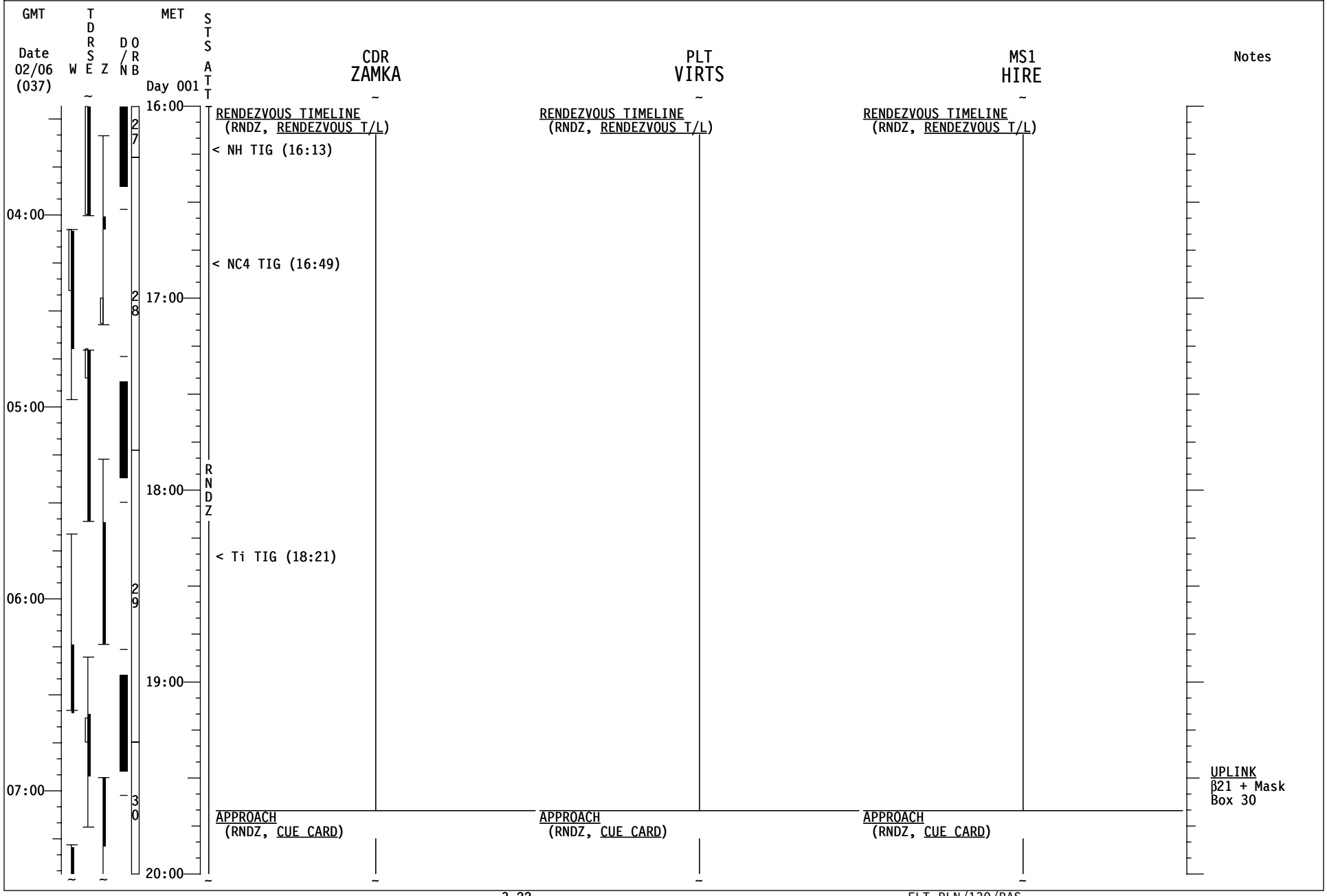
STS ATI
MS2 ROBINSON
MS3 PATRICK
MS4 BEHNKEN
Notes
12:00
13:00
14:00
15:00
16:00
00:00
01:00
02:00
03:00
25
26
27
-ZLV
-XVV
-ZLV
+YVV
SLEEP
SLEEP
SLEEP
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
SUPPLY/WASTE WATER DUMP
(ORB OPS, ECLS)
Initiate Supply/Waste Dump
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
SUPPLY/WASTE WATER DUMP
(ORB OPS, ECLS)
Terminate Supply/Waste Dump

STS-130 FD03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CDR
ZAMKA
PLT
VIRTS
MS1
HIRE
Notes
16:00
17:00
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19:00
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04:00
05:00
06:00
07:00
27
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29
30
RNDZ
RENDEZVOUS TIMELINE
(RNDZ, RENDEZVOUS T/L)
< NH TIG (16:13)
< NC4 TIG (16:49)
< Ti TIG (18:21)
APPROACH
(RNDZ, CUE CARD)
UPLINK
β21 + Mask
Box 30

STS-130 FD03

GMT Date 02/06 (037) | W | TDRSE | Z | D/N | ORB | MET Day 001 | STS ATT

MS2 ROBINSON

- 16:00 — POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- O2 REPRESS INIT C5 DIRECT O2 vlv - OP
- RECONFIGURE OCA DOWNLINK RATE [B]
- O2 RPRS TERM on MCC GO: C5 DIRECT O2 vlv - CL
- 17:00 — EXERCISE
- 05:00 — RENDEZVOUS TIMELINE (RNDZ, RENDEZVOUS T/L)
- 18:00 — RNDZ
- 06:00 — EMU REMOVAL (EVA, AIRLOCK CONFIG)
- 19:00 — P/TVO2 DOCK (PHOTO/TV, SCENES) Perform SETUP
- 07:00 — APPROACH (RNDZ, CUE CARD)
- 20:00

MS3 PATRICK

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- EXERCISE
- EMU REMOVAL (EVA, AIRLOCK CONFIG)
- P/TVO2 DOCK (PHOTO/TV, SCENES) Perform OPS

MS4 BEHNKEN

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- MDDK STATUS CK(ASSY OPS,P/L)GLACIER & CGBA
- SHUTTLE CONDENSATE COLLECTION (ORB OPS, ECLS) Perform SETUP
- EXERCISE
- EMU REMOVAL (EVA, AIRLOCK CONFIG)
- APPROACH (RNDZ, CUE CARD)

Notes

[B] √MCC prior to configuring: RECONFIGURE OCA DOWNLINK RATE (Ch. 2) (ORB OPS,PGSC)Part D then A(Omit step 4)

STS-130 FD03

GMT Date 02/06 (037) | TDRS W E Z | D/N | ORB | MET Day 001 | STS ATI

CDR ZAMKA	PLT VIRTS	MS1 HIRE	Notes
APPROACH (RNDZ, CUE CARD)	APPROACH (RNDZ, CUE CARD)	APPROACH (RNDZ, CUE CARD)	
< DOCKING(1/20:59)			
RETURN TO FLIGHT PLAN			
MNVR (TRK) BIAS -XLV -ZVV TGT=2 BV=5 P=163 Y=0 OM=167 Init TRK, DAP:FREE > 2 sec, then DAP: A12/AUTO/VERN	JOINT OPS: 6.109 HARDLINE ICOM AUDIO Steps 1,5,6	POST DOCKING HATCH LEAK CHECK (RNDZ, APDS)	UPLINK β21 + Mask Box 20,21,22
PRIOR PWRDN GRP B (ORB PKT,PRIOR PWRDN) Steps 5,6(C) & 12 (In Step 12,IMU 2 STBY) O6 S TRK PWR -Z - OFF	PRIOR PWRDN GRP B (ORB PKT,PRIOR PWRDN) Steps 5,6(C) & 12 (In Step 12,IMU 2 STBY) O6 S TRK PWR -Z - OFF	AIRLOCK PREP FOR INGRESS - AIRLOCK FAN ACTIVE (RNDZ, APDS)	
When ISS Go for ATT CNTRL, DAP:FREE	SSV OUTRATE - 2		TFL 184
JOINT OPS: 2.104 HATCH OPENING AND SHUTTLE/ISS DUCT INSTALL Perform steps 2-11, 14, & 15 √MCC-H complete with step 1	JOINT OPS: 2.104 HATCH OPENING AND SHUTTLE/ISS DUCT INSTALL Perform steps 2-11, 14, & 15 √MCC-H complete with step 1	JOINT OPS: 2.104 HATCH OPENING AND SHUTTLE/ISS DUCT INSTALL Perform steps 2-11, 14, & 15 √MCC-H complete with step 1	
WELCOME	WELCOME	WELCOME	
SAFETY BRIEFING	SAFETY BRIEFING	SAFETY BRIEFING	
POST-DOCKING EVA TRANSFER & RECONFIG (EVA, AIRLOCK CONFIG)	OBSS GRAPPLE FROM SSRMS (PDRS, OBSS NOMINAL) Steps 1-2	OBSS GRAPPLE FROM SSRMS (PDRS, OBSS NOMINAL) Steps 1-2	
	SSPTS ODS CONNECTOR VERIF A15 ODS MATE X1,X2 (two) - ON √MCC then - OFF		

C Single G2 - after MNVR complete
Step 3: √MCC or pause ~ 3 min (DAP settling)
DAP: as req'd

STS-130 FD03

GMT Date 02/06 (037) | W | TDRSE | Z | D/N | ORB | MET Day 001 | STS ATI

MS2 ROBINSON	MS3 PATRICK	MS4 BEHNKEN	Notes
APPROACH (RNDZ, CUE CARD)	P/TV02 DOCK (PHOTO/TV, SCENES) Perform OPS	APPROACH (RNDZ, CUE CARD)	
< DOCKING(1/20:59)			
	RETURN TO FLIGHT PLAN		
POST DOCKING HATCH LEAK CHECK (RNDZ, APDS)	P/TV04 INGRESS/EGRESS (PHOTO/TV, SCENES) P/TV02 Deact Step 2 FD steps only Airlock Prep steps as shown P/TV02 Deact Step 2 ODS steps P/TV04 Setup		
POST RNDZ PGSC CONFIG Configure PGSCs per usage chart	AIRLOCK PREP FOR INGRESS - AIRLOCK FAN ACTIVE (RNDZ, APDS)	POST RNDZ PGSC CONFIG Configure PGSCs per usage chart	
	P/TV04 INGRESS/EGRESS(PHOTO/TV, SCENES) Perform OPS		
WLES DOCK/UNDK RECOVERY(ORB OPS,WLE SENSORS) JOINT OPS: 6.107 PCS SETUP-SHUTTLE		JOINT OPS: 6.107 PCS SETUP-SHUTTLE	
WELCOME	WELCOME	WELCOME	
SAFETY BRIEFING	SAFETY BRIEFING	SAFETY BRIEFING	
POST-DOCKING EVA TRANSFER & RECONFIG (EVA, AIRLOCK CONFIG)		POST-DOCKING EVA TRANSFER & RECONFIG (EVA, AIRLOCK CONFIG)	
	ROBO: 1.110 OBSS UNBERTH AND HANDOFF Steps 1-2		

STS-130 FD03

GMT Date 02/06 (037) | W | TDRS E | Z | D/N | ORB | MET Day 002 | STS ATI

CDR ZAMKA

00:00 — MIDDECK TRANSFER
Ref. Transfer List

JOINT OPS: 3.102 NITROGEN TRANSFER INIT
Verify MCC-H complete with Step 2, then perform Steps 3-4.5,5.1

BIAS-XLV-ZVV

EXERCISE

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
√ HUM SEP FOR H2O ACCUMULATION
Perform Air Quality Report

FLIGHT DIRECTOR CONFERENCE
PRIVATE MEDICAL CONFERENCE
L9 PAYLOAD STATION A/G (two) - OFF
Perform via A/G2

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
√ HUM SEP FOR H2O ACCUMULATION
Perform Air Quality Report

PLT VIRTS

SSPTS OPCU ACT D

OBSS GRAPPLE FROM SSRMS
(PDRS, OBSS NOMINAL) Steps 3-5

OBSS GRAPPLE FROM SSRMS
(PDRS, OBSS NOMINAL) Steps 6-8 EXER CONST

D SSPTS OPCU ACT
On MCC GO:A15 OPCU 1,2 CONV(two) - ON
R1 MN BUS TIE B - ON(tb-ON)
C - ON(tb-ON)

OBSS GRAPPLE FROM SSRMS
(PDRS, OBSS NOMINAL)
Steps 9-10

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS1 HIRE

OBSS GRAPPLE FROM SSRMS
(PDRS, OBSS NOMINAL) Steps 3-5

OBSS GRAPPLE FROM SSRMS
(PDRS, OBSS NOMINAL) Steps 6-8 EXER CONST

OBSS GRAPPLE FROM SSRMS
(PDRS, OBSS NOMINAL)
Steps 9-10

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

TRANSFER TAGUP
Coordinate with transfer counterpart

TRANSFER BRIEF
Call down status to MCC

CREW CHOICE DOWNLINK
(CUE CARD, PLAYBACK)
KU TDRW: 02:42-03:13

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

Notes

STS-130 FD03

GMT Date 02/06 (037) | W | TDRSE | Z | D/N | ORB | MET Day 002 | STS ATI

MS2 ROBINSON

- P/TV09 GLACIER (PHOTO/TV, SCENES) Perform SETUP & OPS
- P/TV05 ISS INTERNAL OPS (HC) (PHOTO/TV, SCENES) Perform SETUP
- SODF TRANSFER Ref. Transfer List & MSG XXX
- PLAYBACK (DIGITAL) DOCKING (PHOTO/TV, CUE CARD) KU TDRW: (01:03-01:23)
- MIDDECK TRANSFER Ref. Transfer List
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MS3 PATRICK

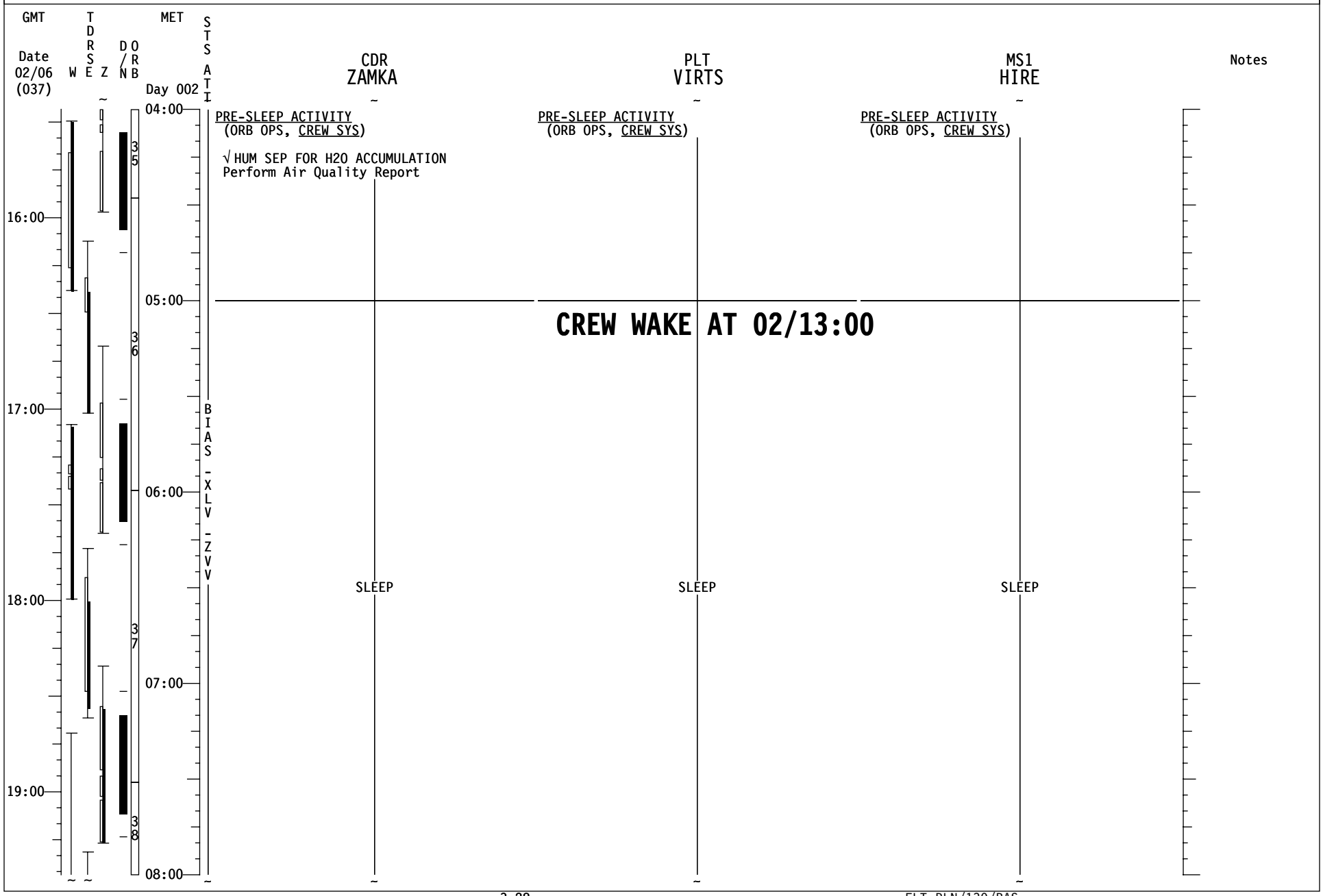
- ROBO: 1.110 OBSS UNBERTH AND HANDOFF Steps 3-4.2
- ROBO: 1.110 OBSS UNBERTH AND HANDOFF Steps 4.3-6
- ROBO: 1.110 OBSS UNBERTH AND HANDOFF Steps 7-9 EXERCISE CONSTRAINT
- EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP Steps 1-3 already complete
- EVA SYSTEMS: 1.307 REBA INSTALLATION Verify EMU battery & LiOH S/Ns with MCC Ref.STS-130 Consumables Tracking CC(EVA)
- EVA SYSTEMS: 1.403 REBA POWERED HARDWARE CHECKOUT
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MS4 BEHNKEN

- SAMPLE TRANSFER REVIEW REVIEW ONLY Ref. MSG XXX
- ASCENT SAMPLE TRANSFER FROM GLACIER TO MELFI Ref. MSG XXX
- NLP TERMINATION (ASSY OPS, P/L) Terminate GAPs A-J
- NLP TERMINATION (ASSY OPS, P/L) Terminate GAPs 1-8
- MDDK STATUS CK(ASSY OPS,P/L)GLACIER & CGBA
- EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP Steps 1-3 already complete
- EVA SYSTEMS: 1.307 REBA INSTALLATION Verify EMU battery & LiOH S/Ns with MCC Ref.STS-130 Consumables Tracking CC(EVA)
- EVA SYSTEMS: 1.403 REBA POWERED HARDWARE CHECKOUT
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

Notes

STS-130 FD03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STS ATI
CDR ZAMKA
PLT VIRTS
MS1 HIRE
Notes
04:00
05:00
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16:00
17:00
18:00
19:00
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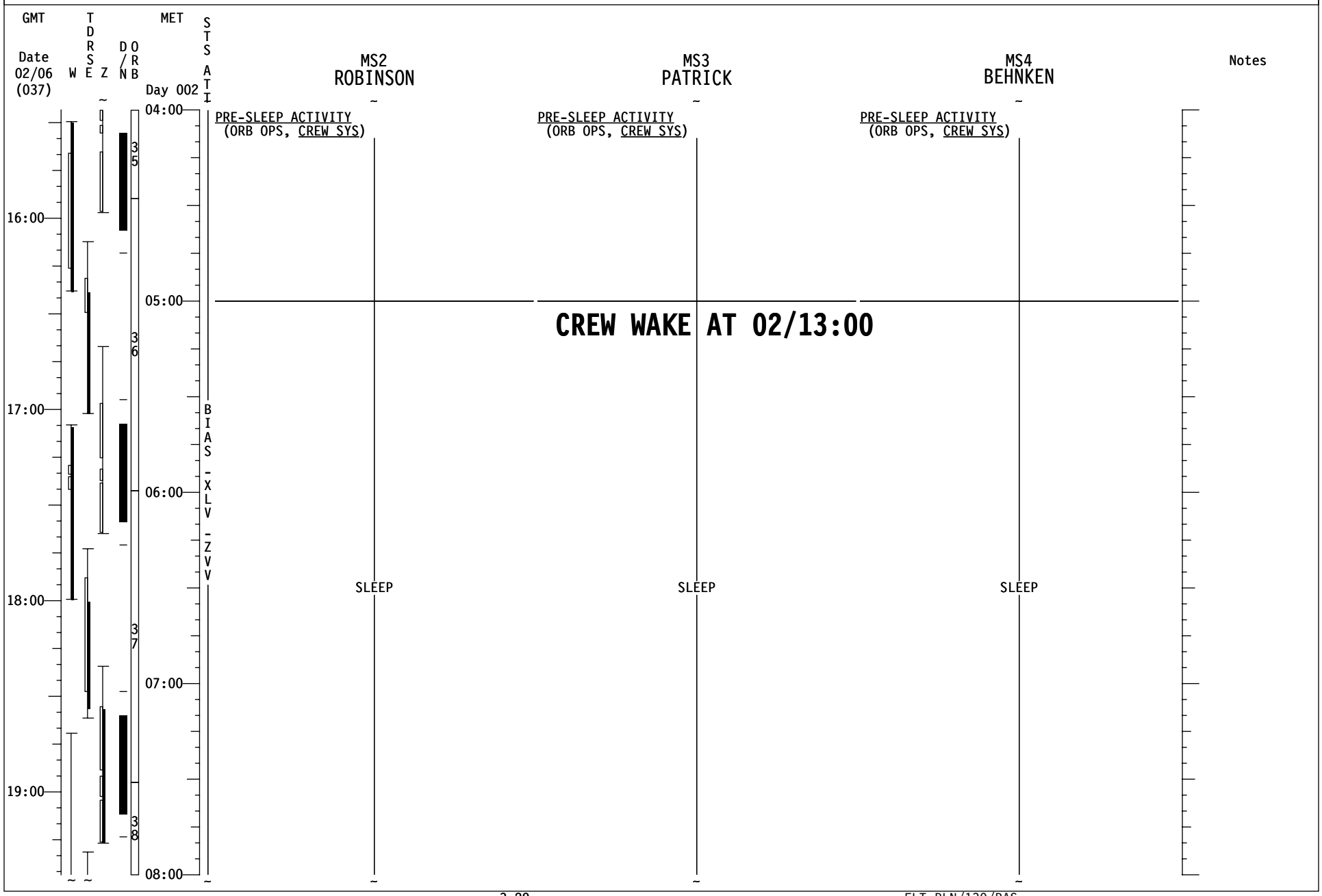
37
38
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
√HUM SEP FOR H2O ACCUMULATION
Perform Air Quality Report
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
CREW WAKE AT 02/13:00
BIAS -XLV -ZVV
SLEEP
SLEEP
SLEEP

STS-130 FD03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MS2 ROBINSON
MS3 PATRICK
MS4 BEHNKEN
Notes
04:00
05:00
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07:00
08:00
16:00
17:00
18:00
19:00
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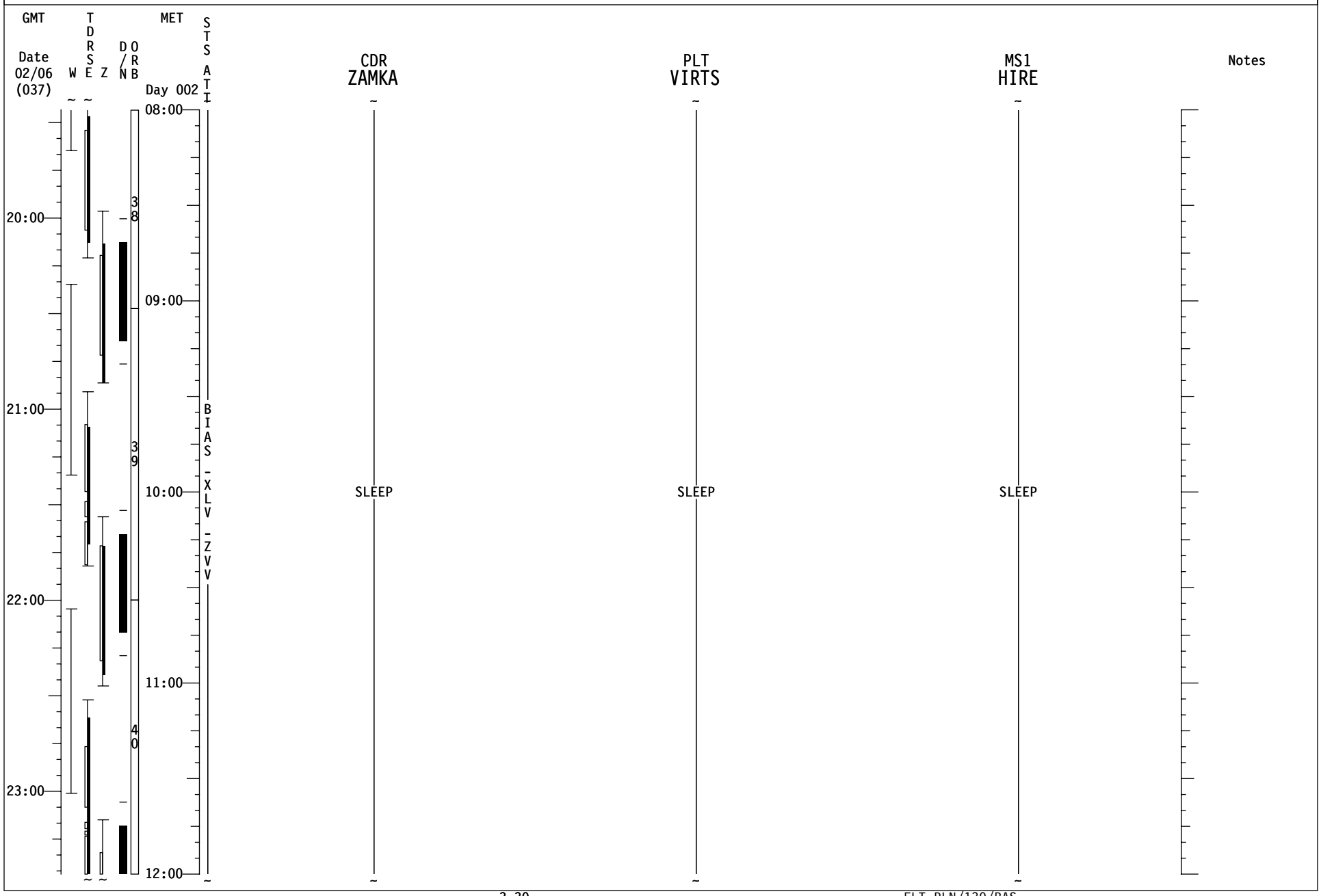
BIAS -XLV -ZVV
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
CREW WAKE AT 02/13:00
SLEEP
SLEEP
SLEEP

STS-130 FD03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ZAMKA
SLEEP
PLT
VIRTS
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MS1
HIRE
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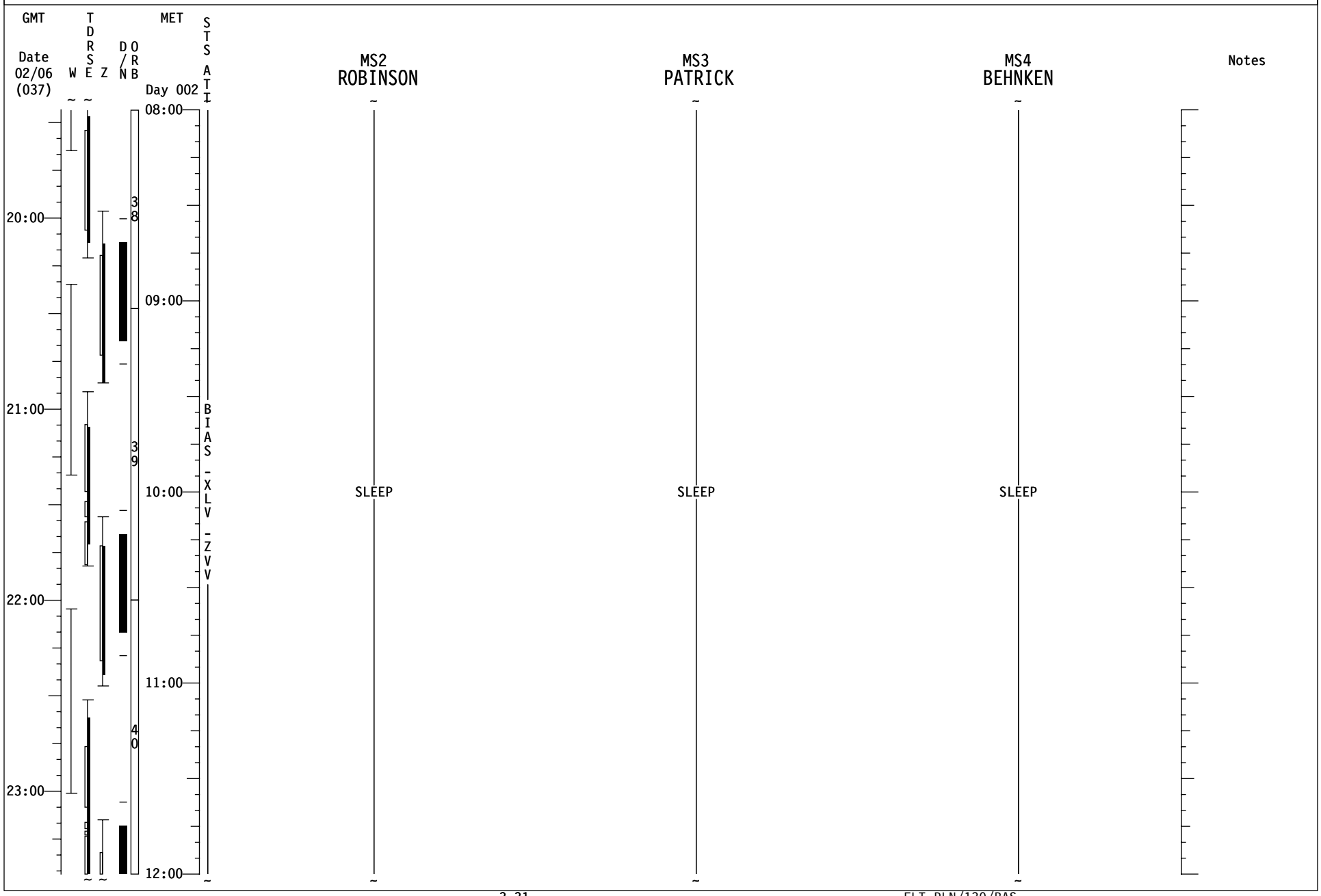
Notes

STS-130 FD03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MS2
ROBINSON
MS3
PATRICK
MS4
BEHNKEN
SLEEP
SLEEP
SLEEP
Notes

STS-130 FD04

GMT Date 02/06 (037) | W | TDRS E | Z | D/N | ORB | MET Day 002 | STS ATI

CDR ZAMKA | PLT VIRTS | MS1 HIRE | Notes

12:00 — 13:00 — 14:00 — 15:00 — 16:00

00:00 — 01:00 — 02:00 — 03:00

41 — 42 — 43

BIAS-XLV-ZVV

SLEEP (CDR ZAMKA)

SLEEP (PLT VIRTS)

SLEEP (MS1 HIRE)

SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

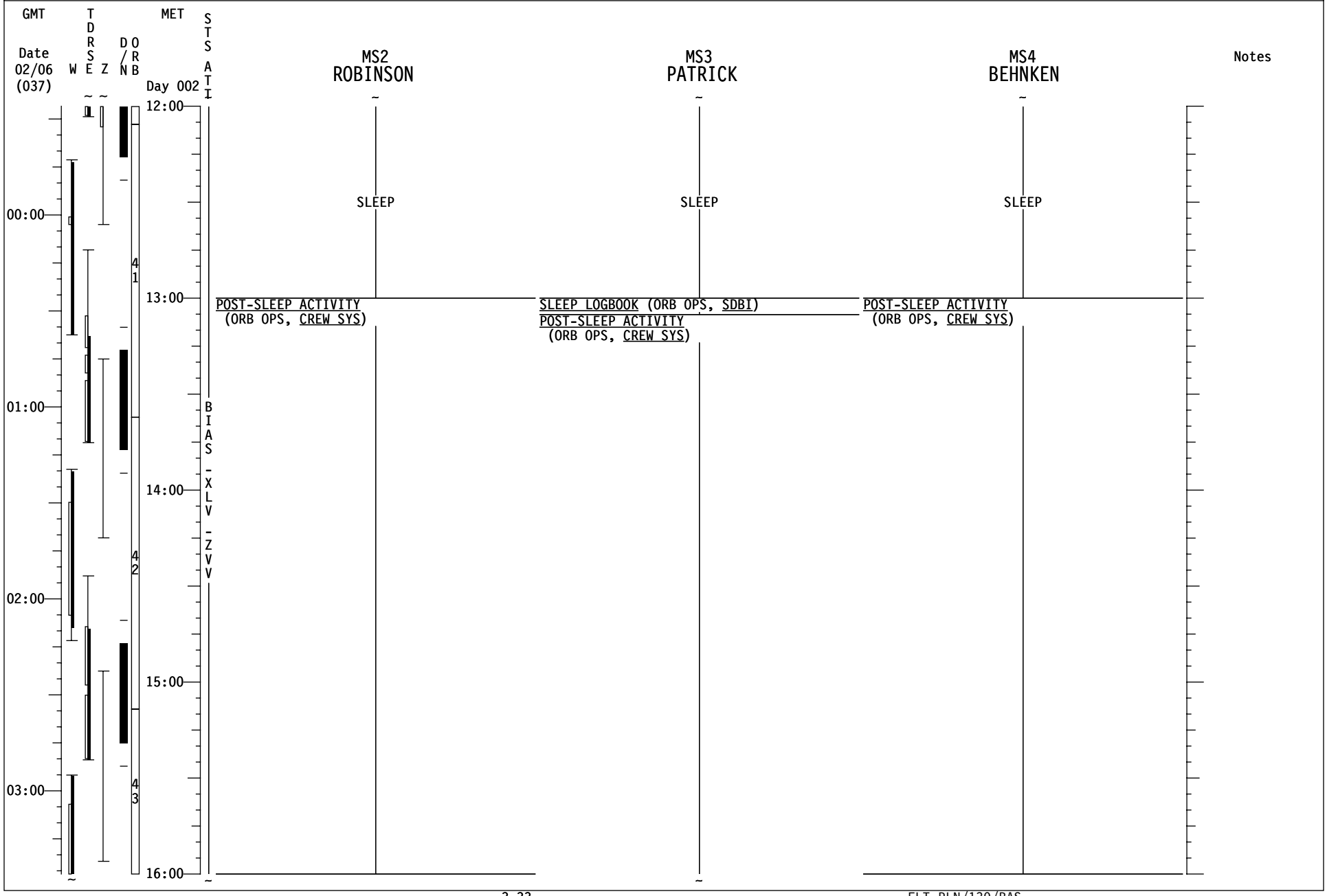
SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

FD04 EZ ACTIVITIES:
√OCAC FILTER
TEPC (STATUS CHECK)
(ORB OPS, CREW SYS)
HARD REBOOT ALL PGSCs EXCEPT:
STS-6(WLES),STS-5(RPOP2),&
OCA ROUTER.

TRANSFER UPDATE
Ref. Transfer List & MSG XXX

STS-130 FD04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MS2
ROBINSON
MS3
PATRICK
MS4
BEHNKEN
Notes
SLEEP
SLEEP
SLEEP
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

STS-130 FD04

GMT Date 02/07 (038) | W | TDRS E | Z | D/N | ORB | MET Day 002 | STS ATI

CDR ZAMKA

16:00 MIDDECK TRANSFER
Ref. Transfer List

SHUTTLE/ISS H2O CONTAINER FILL (HC)
(ORB OPS, ECLS) Init Fill #1
Ref MSG XXX

17:00

ARED

18:00 SHUTTLE/ISS H2O CONTAINER FILL (HC)
(ORB OPS, ECLS)
Perform FILL TERMINATION

CWC TRANSFER
Transfer CWC to ISS

MIDDECK TRANSFER
Ref. Transfer List

19:00

PUBLIC AFFAIRS EVENT
ISS KU AVAIL: 19:21-19:57

MEAL

20:00

PLT VIRTS

IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)
L17 Check MCIU filter screen

JOINT OPS: 3.120 PREBREATHE USING SHUTTLE O2 SETUP
Steps 2-6, Ground will perform steps 2.4 and 6.14

P/TV06 ROBOTICS OPERATIONS
(PHOTO/TV, SCENES)
Perform SETUP

EXERCISE

MIDDECK TRANSFER
Ref. Transfer List

PUBLIC AFFAIRS EVENT
ISS KU AVAIL: 19:21-19:57

MEAL

MS1 HIRE

TRANSFER UPDATE
Ref. Transfer List & MSG XXX

EXERCISE

MIDDECK TRANSFER
Ref. Transfer List

SPINAL STAND HEIGHT SUBJECT Ref. MSG XXX
SPINAL ELONG CREW DATA CLCT Ref. MSG XXX

MIDDECK TRANSFER
Ref. Transfer List

PUBLIC AFFAIRS EVENT
ISS KU AVAIL: 19:21-19:57

MEAL

Notes

NO EXERCISE WHILE DOUBLE GRAPPLED

STS-130 FD04

GMT Date 02/07 (038) | W | TDRSE | Z | D/N | ORB | MET Day 002 | STS ATI

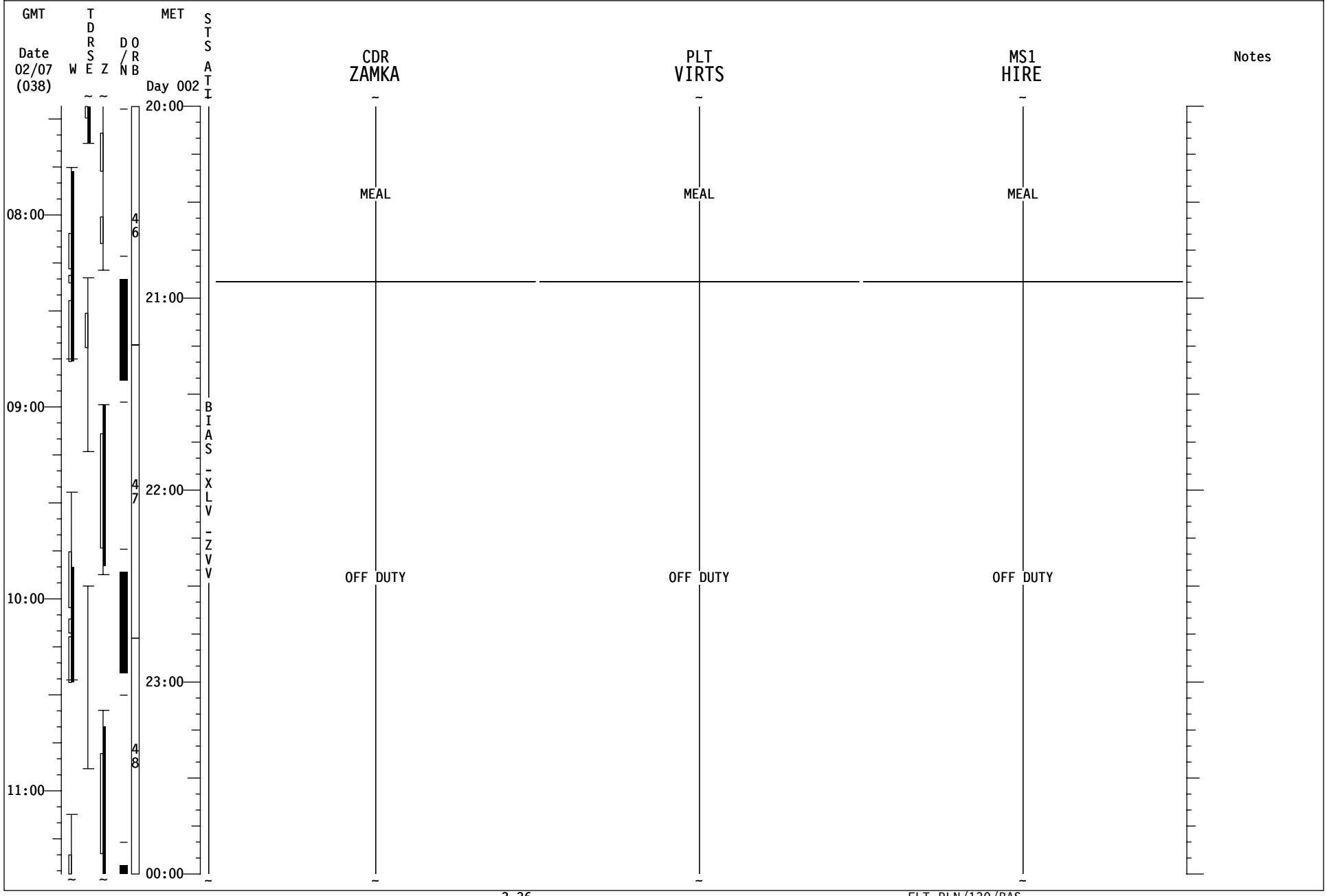
MS2 ROBINSON	MS3 PATRICK	MS4 BEHNKEN	Notes
MDDK STATUS CK(ASSY OPS,P/L)GLACIER & CGBA	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
MIDDECK TRANSFER Ref. Transfer List	EVA 1 TOOL CONFIG (EVA, TIMELINES)	EVA 1 TOOL CONFIG (EVA, TIMELINES)	
EXERCISE			NO EXERCISE WHILE DOUBLE GRAPPLED
EVA 1 TOOL CONFIG (EVA, TIMELINES)			
	EVA TOOL AUDIT Ref. EVA 1 TOOL CONFIG (EVA, TIMELINES)	EVA TOOL AUDIT Ref. EVA 1 TOOL CONFIG (EVA, TIMELINES)	
SPINAL STAND HEIGHT SUBJECT Ref. MSG XXX SPINAL ELONG CREW DATA CLCT Ref. MSG XXX			
MIDDECK TRANSFER Ref. Transfer List			
	EXERCISE	ARED	
PUBLIC AFFAIRS EVENT ISS KU AVAIL: 19:21-19:57	PUBLIC AFFAIRS EVENT ISS KU AVAIL: 19:21-19:57	PUBLIC AFFAIRS EVENT ISS KU AVAIL: 19:21-19:57	
MEAL	MEAL	MEAL	

Time scale: 04:00, 05:00, 06:00, 07:00; 16:00, 17:00, 18:00, 19:00, 20:00

43, 44, 45, 46

BIAS-XLV-ZVV

STS-130 FD04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V
CDR
ZAMKA
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VIRTS
MS1
HIRE
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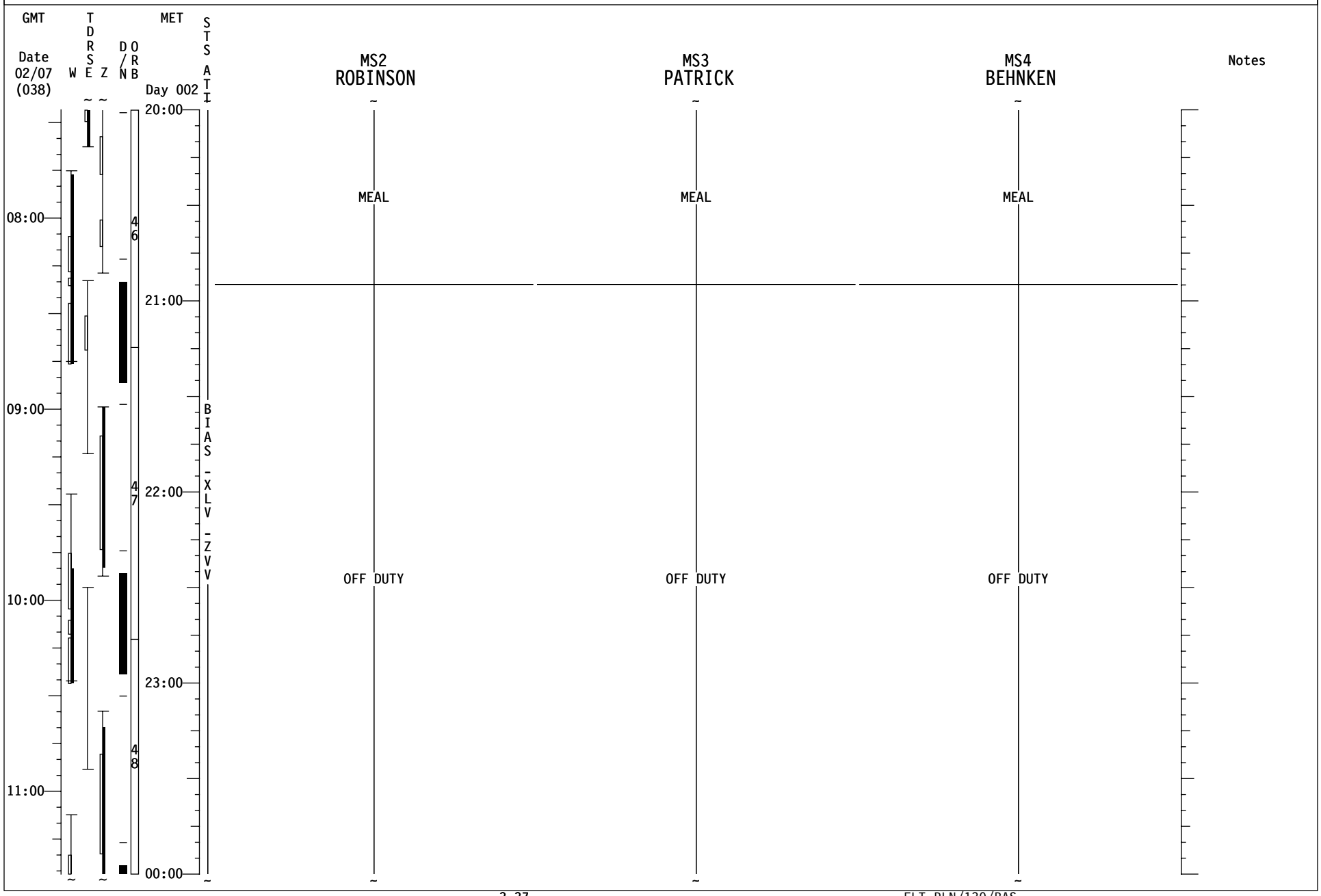
MEAL
OFF DUTY
OFF DUTY
OFF DUTY
Notes

STS-130 FD04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MS2
ROBINSON
MS3
PATRICK
MS4
BEHNKEN
MEAL
MEAL
MEAL
OFF DUTY
OFF DUTY
OFF DUTY
Notes

STS-130 FD04

GMT Date 02/07 (038) | W | TDRSE | Z | D/N | ORB | MET Day 003 | STS ATI | CDR ZAMKA | PLT VIRTS | MS1 HIRE | Notes

00:00 – 01:00 – 02:00 – 03:00 – 04:00

12:00 – 13:00 – 14:00 – 15:00

48 – 49 – 50 – 51

BIAS - XLV - ZVV

CDR ZAMKA

OFF DUTY

EVA PROCEDURE REVIEW
Ref. EVA 1 BRIEFING CARD
(EVA, TIMELINES)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

FLIGHT DIRECTOR CONFERENCE

PRIVATE MEDICAL CONFERENCE
L9 PAYLOAD STATION A/G (two) - OFF
Perform via A/G2

EVA SYSTEMS: 1.206 10.2 PSIA CAMPOUT MASK
PREBREATHE Steps 1-16
Ref. STS-130 Consumables Tracking CC(EVA)

PLT VIRTS

OFF DUTY

EVA PROCEDURE REVIEW
Ref. EVA 1 BRIEFING CARD
(EVA, TIMELINES)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS1 HIRE

OFF DUTY

EVA PROCEDURE REVIEW
Ref. EVA 1 BRIEFING CARD
(EVA, TIMELINES)

TRANSFER TAGUP
Coordinate with transfer counterpart

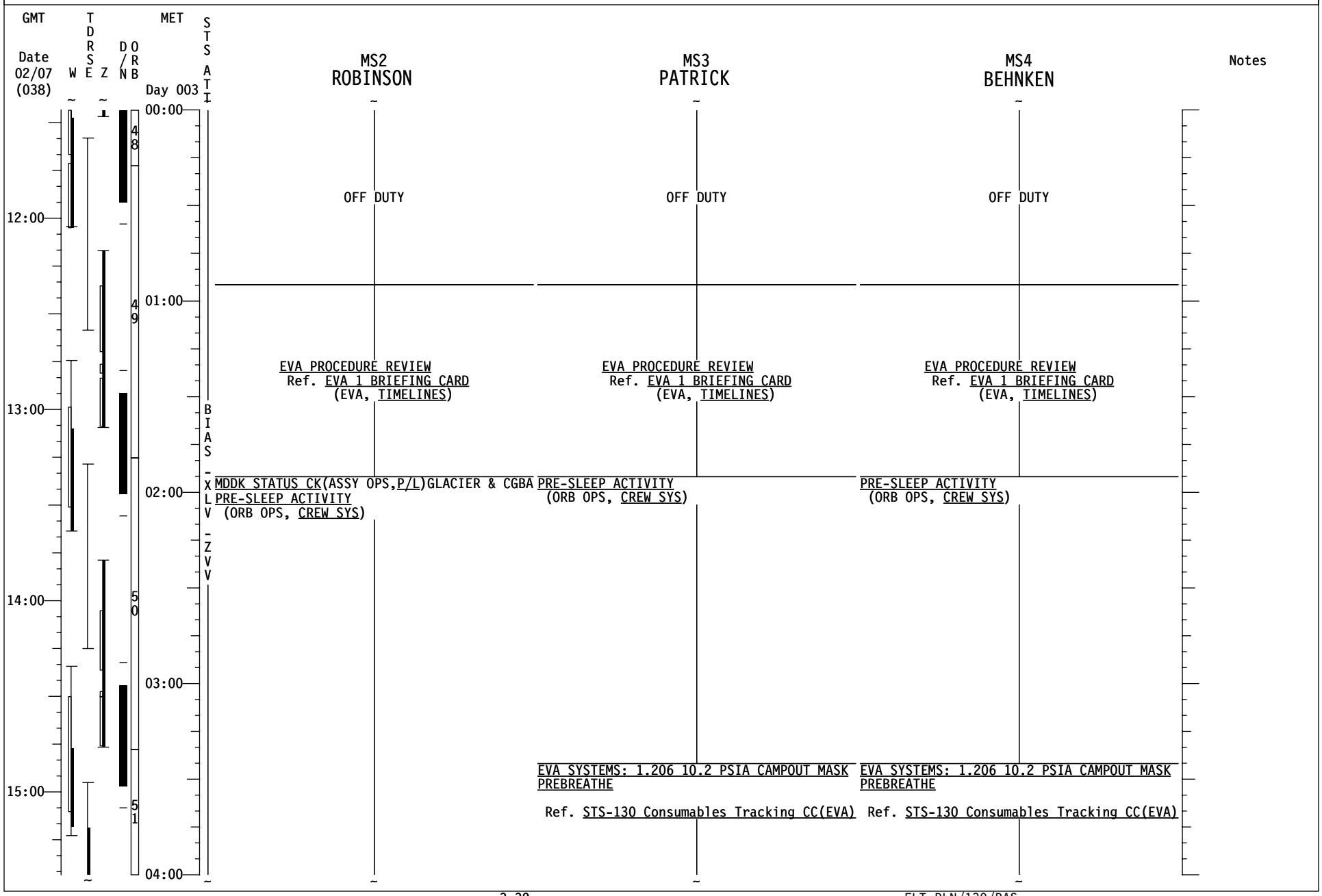
TRANSFER BRIEF
Call down status to MCC

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

CREW CHOICE DOWNLINK
(CUE CARD, PLAYBACK)
KU TDRZ: 02:38-02:55

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

STS-130 FD04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STS ATI
MS2 ROBINSON
MS3 PATRICK
MS4 BEHNKEN
Notes
00:00
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12:00
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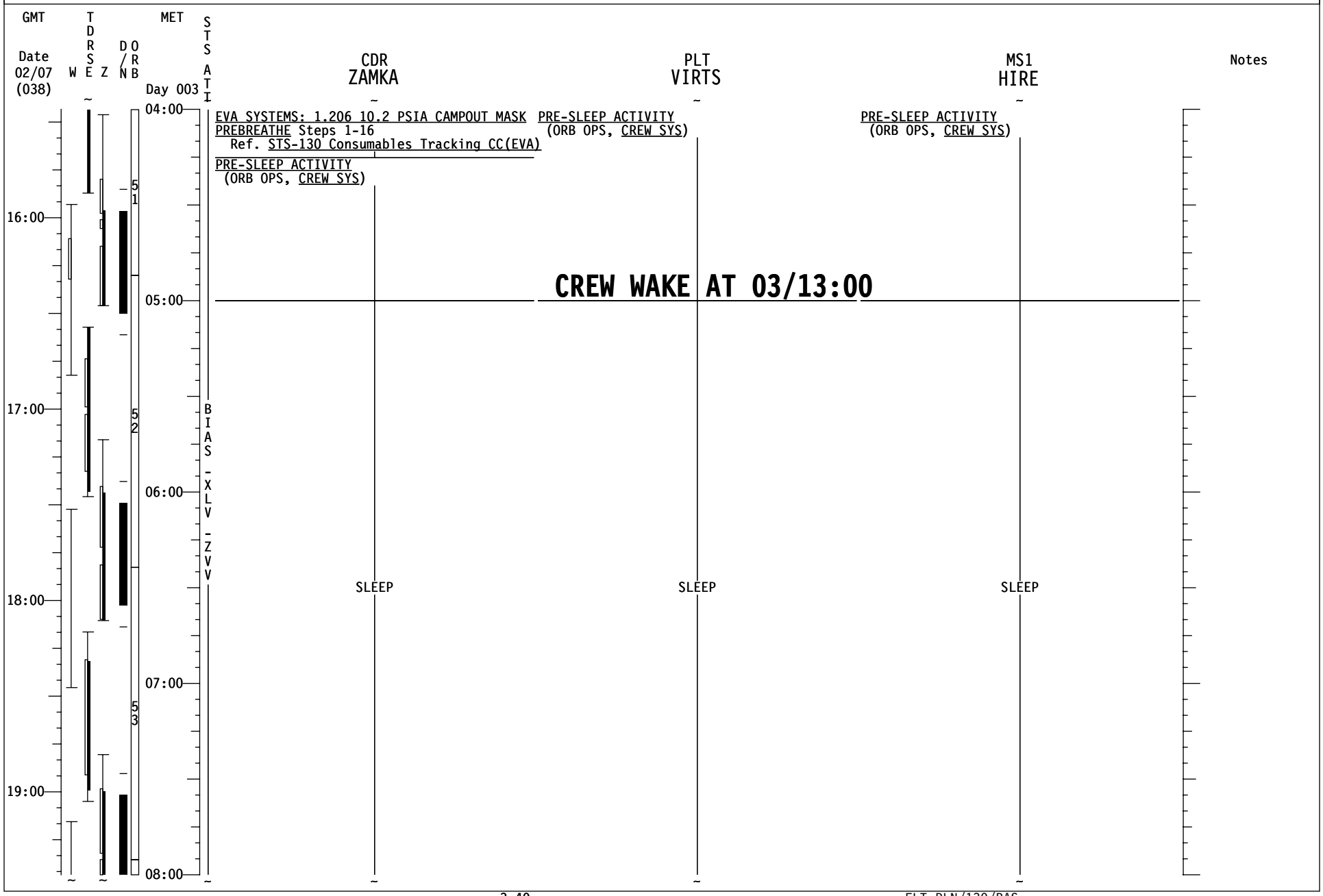
51
BIAS-XLV-ZVV
OFF DUTY
OFF DUTY
OFF DUTY
EVA PROCEDURE REVIEW
Ref. EVA 1 BRIEFING CARD
(EVA, TIMELINES)
EVA PROCEDURE REVIEW
Ref. EVA 1 BRIEFING CARD
(EVA, TIMELINES)
EVA PROCEDURE REVIEW
Ref. EVA 1 BRIEFING CARD
(EVA, TIMELINES)
MDDK STATUS CK(ASSY OPS,P/L)GLACIER & CGBA
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
EVA SYSTEMS: 1.206 10.2 PSIA CAMPOUT MASK
PREBREATHE
Ref. STS-130 Consumables Tracking CC(EVA)
EVA SYSTEMS: 1.206 10.2 PSIA CAMPOUT MASK
PREBREATHE
Ref. STS-130 Consumables Tracking CC(EVA)

STS-130 FD04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STS ATI
CDR ZAMKA
PLT VIRTS
MS1 HIRE
Notes
04:00
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19:00
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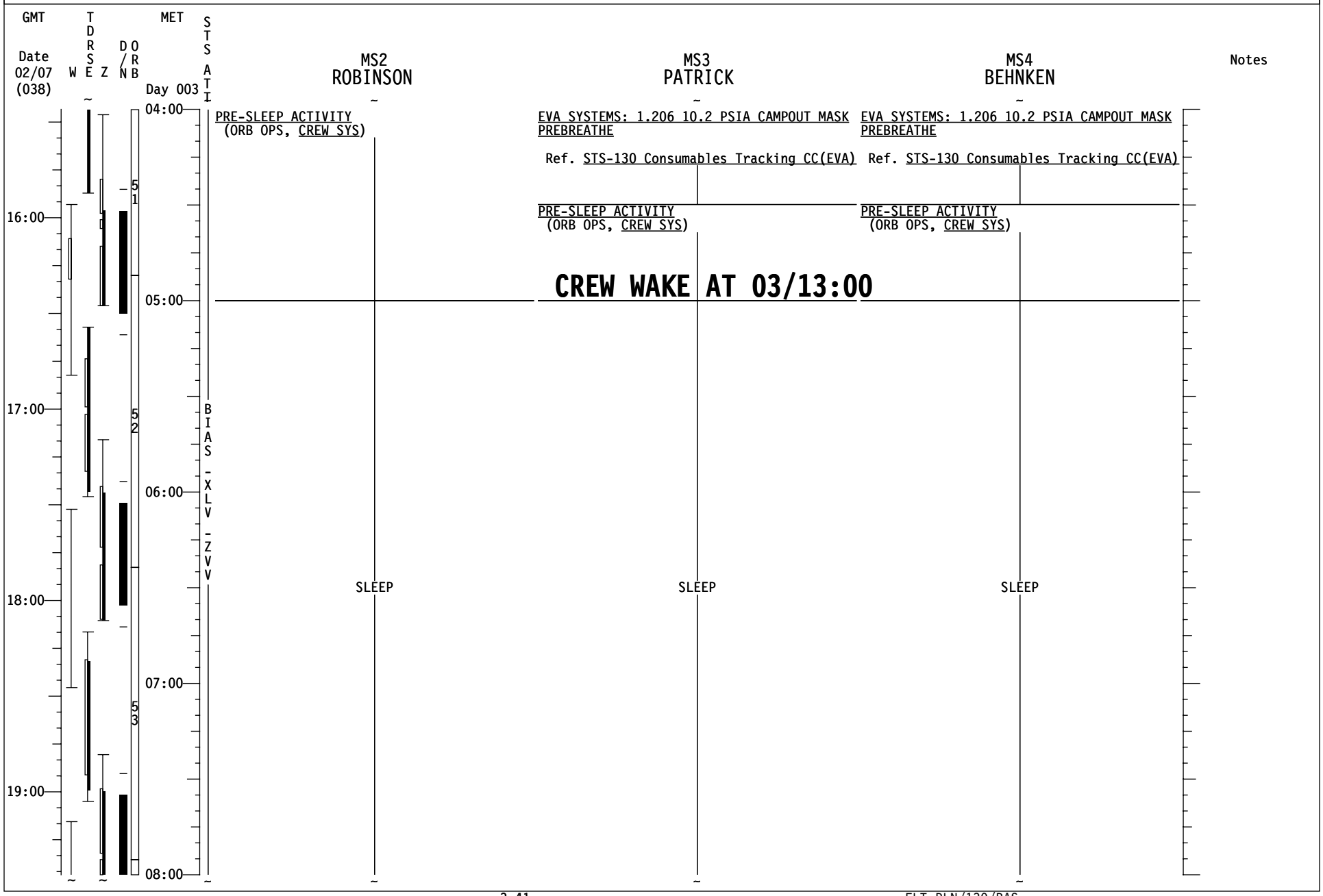
53
EVA SYSTEMS: 1.206 10.2 PSIA CAMPOUT MASK
PREBREATHE Steps 1-16
Ref. STS-130 Consumables Tracking CC(EVA)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
CREW WAKE AT 03/13:00
BIAS -XLV -ZVV
SLEEP
SLEEP
SLEEP

STS-130 FD04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STS ATI
MS2 ROBINSON
MS3 PATRICK
MS4 BEHNKEN
Notes
04:00
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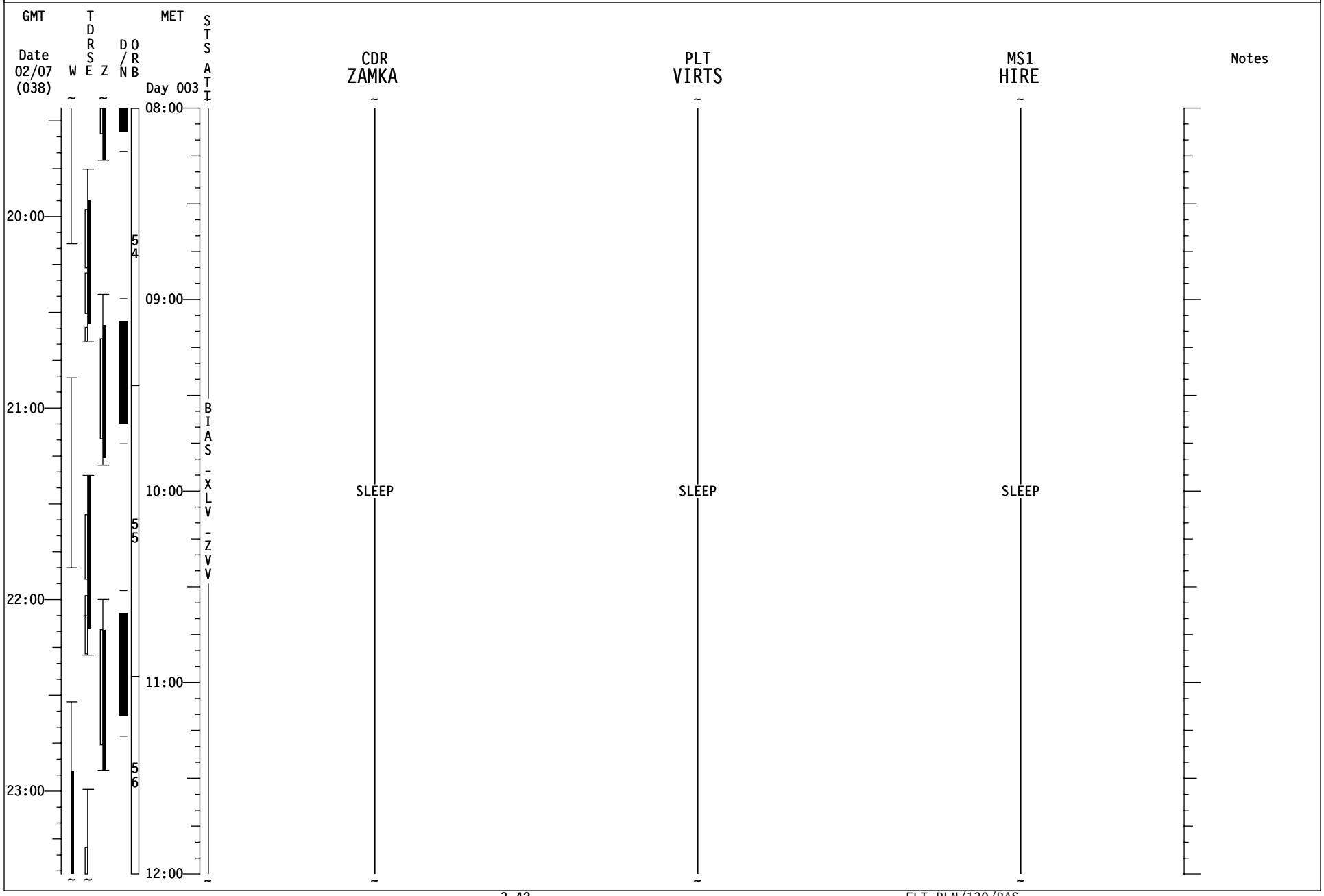
BIAS -XLV -ZVV
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
EVA SYSTEMS: 1.206 10.2 PSIA CAMPOUT MASK PREBREATHE
Ref. STS-130 Consumables Tracking CC(EVA)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
EVA SYSTEMS: 1.206 10.2 PSIA CAMPOUT MASK PREBREATHE
Ref. STS-130 Consumables Tracking CC(EVA)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
CREW WAKE AT 03/13:00
SLEEP
SLEEP
SLEEP

STS-130 FD04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BIAS-XLV-ZVV
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MS1
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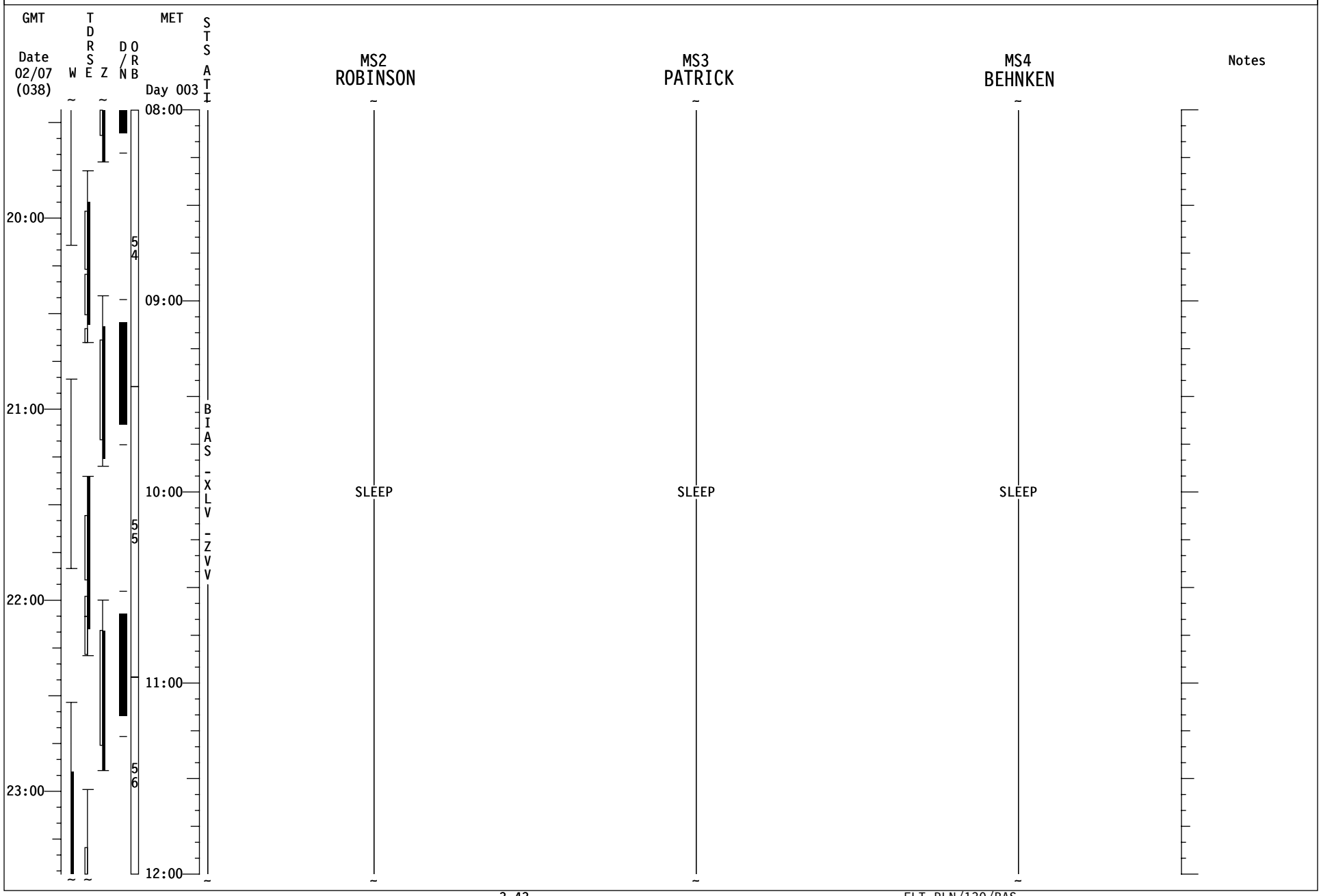
Notes

STS-130 FD04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MS2
ROBINSON
SLEEP
MS3
PATRICK
SLEEP
MS4
BEHNKEN
SLEEP
Notes

STS-130 FD05

GMT Date 02/07 (038) | W | T D R S E | Z | D/N | O R B | MET Day 003 | STS ATI

CDR ZAMKA | PLT VIRTS | MS1 HIRE | Notes

12:00 — 13:00 — 14:00 — 15:00 — 16:00 — 00:00 — 01:00 — 02:00 — 03:00

56 57 58 59

BIAS-XLV-ZVV

SLEEP (CDR ZAMKA)

SLEEP (PLT VIRTS)

SLEEP (MS1 HIRE)

SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

FD05 EZ ACTIVITIES:
√OCAC FILTER
TEPC (STATUS CHECK)
(ORB OPS, CREW SYS)
HARD REBOOT ALL PGSCs EXCEPT:
STS-6(WLES),STS-5(RPOP2),&
OCA ROUTER.

PRIVATE MEDICAL CONFERENCE
L9 PAYLOAD STATION A/G (two) - OFF
Perform via A/G2

EVA SYSTEMS: 1.211 HYGIENE BREAK

EVA SYSTEMS: 1.216 10.2 PSIA CAMPOUT EVA PREP

STS-130 FD05

GMT Date 02/07 (038) | W | TDRSE | Z | D/N | ORB | MET Day 003 | STS ATI

MS2 ROBINSON	MS3 PATRICK	MS4 BEHNKEN	Notes
SLEEP	SLEEP	SLEEP	
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
	EVA SYSTEMS: 1.211 HYGIENE BREAK	EVA SYSTEMS: 1.211 HYGIENE BREAK	
	EVA SYSTEMS: 1.216 10.2 PSIA CAMPOUT EVA PREP	EVA SYSTEMS: 1.216 10.2 PSIA CAMPOUT EVA PREP	
MDDK STATUS CK(ASSY OPS,P/L)GLACIER & CGBA			
EXERCISE			

Time scale: 00:00, 01:00, 02:00, 03:00; 12:00, 13:00, 14:00, 15:00, 16:00

Orbit: 56, 57, 58, 59

BIAS - XLV - ZVV

STS-130 FD05

GMT Date 02/08 (039) | W | TDRSE | Z | D/N | ORB | MET Day 003 | STS ATI

CDR ZAMKA	PLT VIRTS	MS1 HIRE	Notes
EVA SYSTEMS: 1.216 10.2 PSIA CAMPOUT EVA PREP	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	TRANSFER UPDATE Ref. Transfer List & MSG XXX	
	IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)		
	EVA 1 INHIBIT PAD (EVA, TIMELINES)		
EVA SYSTEMS: 1.220 EMU PURGE			
	P/TV07 EVA (PHOTO/TV, SCENES) Perform SETUP		
EVA SYSTEMS: 1.225 EMU PREBREATHE		EXERCISE	
	ARED	S&M: 1.403 CBCS INSTALL/REMOVAL-GEN Steps 10,11.3-11.5	
EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS (CC)		1.117 NODE 1/NODE 3 VEST PRESS & LEAK CHECK (ASSY OPS, ACT&C/O) Steps 1-5	
	MIDDECK TRANSFER Ref. Transfer List		
EVA SYSTEMS: CREWLOCK POST DEPRESS (CC)		1.104 VESTIBULE OUTFITTING NOD1 TO NOD3 (ASSY OPS, ACT&C/O) Step 1.1	
N2 REPRESS INIT [A]			
P/TV07 EVA (PHOTO/TV, SCENES) Perform OPS		MIDDECK TRANSFER Ref. Transfer List	
	ROBO: 1.210 SSRMS BERTHED NODE 3 GRAPPLE	ROBO: 1.210 SSRMS BERTHED NODE 3 GRAPPLE	
ROBO: 1.220 SSRMS NODE 3 UNBERTH TO INSTL Steps 4-7 EXERCISE CONSTRAINTS	ROBO: 1.220 SSRMS NODE 3 UNBERTH TO INSTL Steps 1-14 EXERCISE CONSTRAINTS	ROBO: 1.220 SSRMS NODE 3 UNBERTH TO INSTL Steps 1-14 EXERCISE CONSTRAINTS	NO EXERCISE FROM UNBERTH & INSTL UNTIL A-BOLTS COMPLETE
N2 REPRESS TERM (On MCC GO) [B]			
P/TV07 EVA (PHOTO/TV, SCENES) Perform OPS			

BIAS-XLV-ZVV

[A] N2 REPRESS USING P/L N2 VLVS (ORB OPS, ECLS) Steps 1-5; on MCC go, perform step 6

[B] N2 REPRESS USING P/L N2 VLVS (ORB OPS, ECLS) on MCC go, perform steps 7-12

Time scale: 04:00, 05:00, 06:00, 07:00; 16:00, 17:00, 18:00, 19:00, 20:00

59, 60, 61

STS-130 FD05

GMT Date 02/08 (039) | W | TDRS E | Z | D/N | ORB | MET Day 003 | STS ATI

MS2 ROBINSON | MS3 PATRICK | MS4 BEHNKEN | Notes

16:00

EXERCISE

EVA SYSTEMS: 1.216 10.2 PSIA CAMPOUT EVA PREP

EVA TOOL CHECK
Ref. EVA 1 TOOL CONFIG (EVA, TIMELINES)

EVA SYSTEMS: 1.220 EMU PURGE

04:00

59

EVA SYSTEMS: 1.225 EMU PREBREATHE

MIDDECK TRANSFER
Ref. Transfer List

17:00

EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS (CC)

05:00

60

BIAS-XLV-ZVV

EVA SYSTEMS: CREWLOCK POST DEPRESS (CC)

18:00

EVA 1 SETUP

06:00

19:00

IVA SUPPORT FOR EVA

NODE 3 PREP UNBERTH

61

07:00

NH3 BAG OPS

20:00

NO EXERCISE FROM UNBERTH & INSTL UNTIL A-BOLTS COMPLETE

STS-130 FD05

GMT Date 02/08 (039) | W | TDRS E | Z | D/N | ORB | MET Day 003 | STS ATI

CDR ZAMKA | PLT VIRTS | MS1 HIRE | Notes

20:00

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

ROBO: 1.220 SSRMS NODE 3 UNBERTH TO INSTL
Steps 1-14
EXERCISE CONSTRAINTS

ROBO: 1.220 SSRMS NODE 3 UNBERTH TO INSTL
Steps 1-14
EXERCISE CONSTRAINTS

08:00

62

S&M: 1.505 NODE 1 CBM VERIF PREMATE STATUS

21:00

ROBO: 1.220 SSRMS NODE 3 UNBERTH TO INSTL
Step 15
EXERCISE CONSTRAINTS

ROBO: 1.220 SSRMS NODE 3 UNBERTH TO INSTL
Step 15
EXERCISE CONSTRAINTS

NO EXERCISE FROM UNBRTH & INSTL UNTIL A-BOLTS COMPLETE

S&M: 1.505 NODE 1 CBM VERIF PREMATE STATUS
Steps 1-4
EXERCISE CONSTRAINT

09:00

BIAS-XLV

ROBO: 1.220 SSRMS NODE 3 UNBERTH TO INSTL
Step 16
EXERCISE CONSTRAINT

ROBO: 1.220 SSRMS NODE 3 UNBERTH TO INSTL
Step 16 EXERCISE CONSTRAINT

MEAL

S&M: 1.505 NODE 1 CBM VERIF PREMATE STATUS
Steps 5-end
EXERCISE CONSTRAINT

22:00

ROBO: 1.220 SSRMS NODE 3 UNBERTH TO INSTALL
Steps 17-18 EXERCISE CONSTRAINT

ROBO: 1.220 SSRMS NODE 3 UNBERTH TO INSTL
Steps 17-18 EXERCISE CONSTRAINT

SHUTTLE/ISS H2O CONTAINER FILL (HC)
(ORB OPS, ECLS) Init Fill #2
Ref. MSG XXX

N1P HATCH LATCH | C

S&M:1.403 CBCS INSTL/RMVL-GENSteps12.1-12.2

ZVV

63

C
1. Verify Node 1 Port Ratchet in LATCH position.
2. Engage Crank Handle.
3. Turn Crank Handle in LATCH direction until fully latched.
4. Stow Crank Handle.

10:00

MEAL

ARED

MEAL

23:00

S&M:1.403 CBCS INSTL/RMVL-GEN Step 13.2
Do not demate cables. Stow near N1P Hatch.

SHUTTLE/ISS H2O CONTAINER FILL (HC)
(ORB OPS, ECLS)
Perform FILL TERMINATION

MIDDECK TRANSFER
Ref. Transfer List

MIDDECK TRANSFER
Ref. Transfer List

11:00

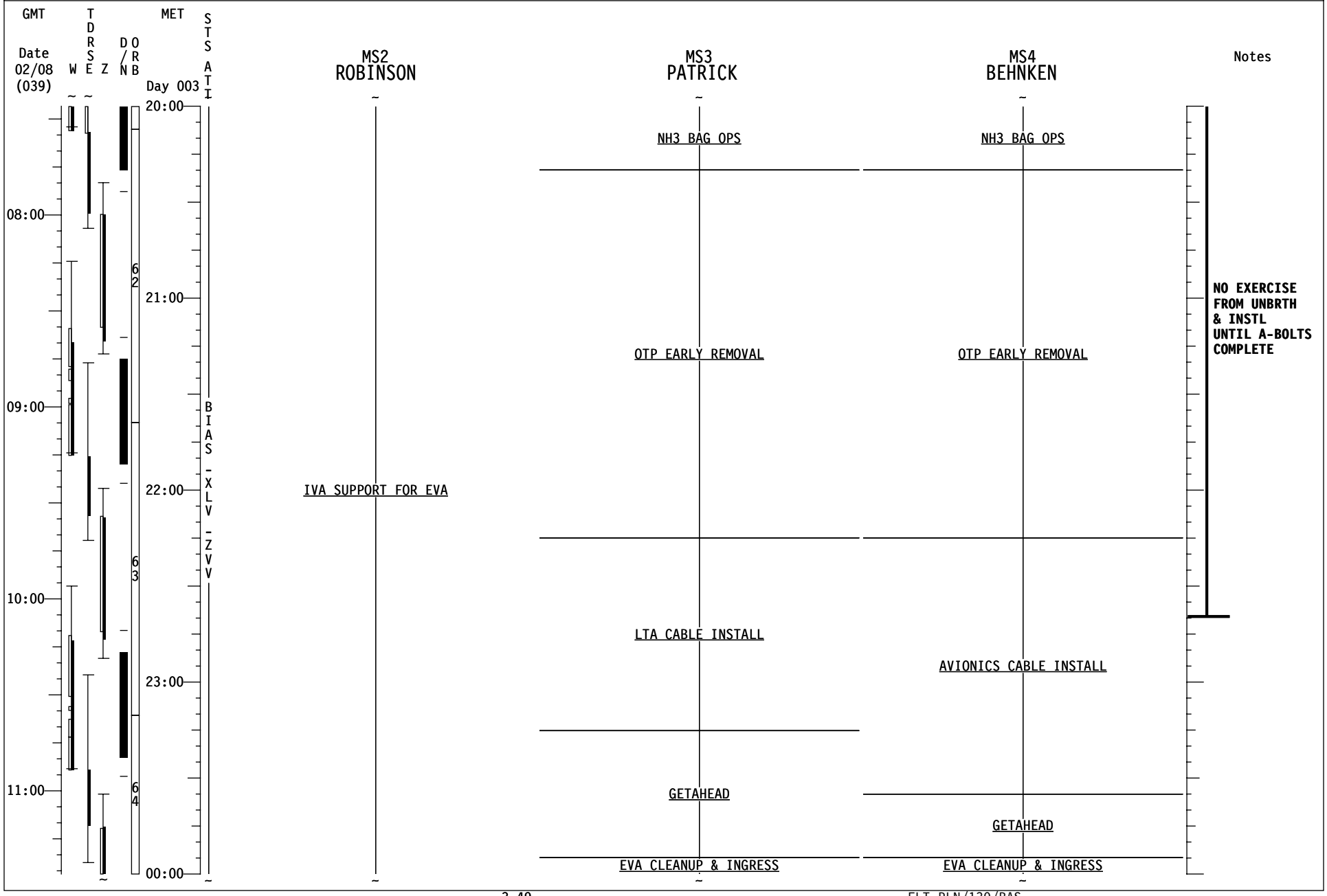
64

CWC TRANSFER
Transfer CWC to ISS

00:00

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

STS-130 FD05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6 2
6 3
6 4
B I A S - X L V - Z V V
MS2
ROBINSON
IVA SUPPORT FOR EVA
MS3
PATRICK
NH3 BAG OPS
OTP EARLY REMOVAL
LTA CABLE INSTALL
GETAHEAD
EVA CLEANUP & INGRESS
MS4
BEHNKEN
NH3 BAG OPS
OTP EARLY REMOVAL
AVIONICS CABLE INSTALL
GETAHEAD
EVA CLEANUP & INGRESS
Notes
NO EXERCISE FROM UNBRTH & INSTL UNTIL A-BOLTS COMPLETE

STS-130 FD05

GMT Date 02/08 (039) | W | TDRS E | Z | D/N | ORB | MET Day 004 | STS ATI

CDR ZAMKA

00:00
P/TV07 EVA (PHOTO/TV, SCENES)
Perform OPS

EVA SYSTEMS: PRE REPRESS (CC)
EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS (CC)

12:00

EVA SYSTEMS: 1.240 POST EVA
With H2O Recharge

Ref. STS-130 Consumables Tracking CC(EVA)
Ref. STS-130 Battery Recharge Plan (EVA)

01:00

13:00

BIAS-XLV_ZVV

02:00
EVA SYSTEMS: 1.605 BSA BATTERY RECHARGE
INITIATE
Ref. STS-130 Consumables Tracking CC(EVA)
Ref. STS-130 Battery Recharge Plan (EVA)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

14:00

FLIGHT DIRECTOR CONFERENCE

PRIVATE MEDICAL CONFERENCE
L9 PAYLOAD STATION A/G (two) - OFF
Perform via A/G2

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

03:00

15:00

04:00

64 65 66 67

PLT VIRTS

MIDDECK TRANSFER
Ref. Transfer List

After NODE 3 INSTALL:
√A/FREE/VERN
DAP Permanent Edit: A12:CA=7, B12:CA=7

FILTER CLEANING
(IFM, SCHEDULED MAINTENANCE)
Inspect filters and clean
as necessary

TV (ILLUMINATOR OPS) (PHOTO/TV, CC)
ILLUMINATORS ON - ALL

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS1 HIRE

MIDDECK TRANSFER
Ref. Transfer List

Verify Node 1 Port Hatch Latched, then:
1.117 NODE 1/NODE 3 VEST PRESS & LEAK CK
(ASSY OPS, ACT&C/O)
Steps 6-8

1.117 NODE 1/NODE 3 VEST PRESS & LEAK CK
(ASSY OPS, ACT&C/O)
Steps 9-10

TRANSFER TAGUP
Coordinate with transfer counterpart

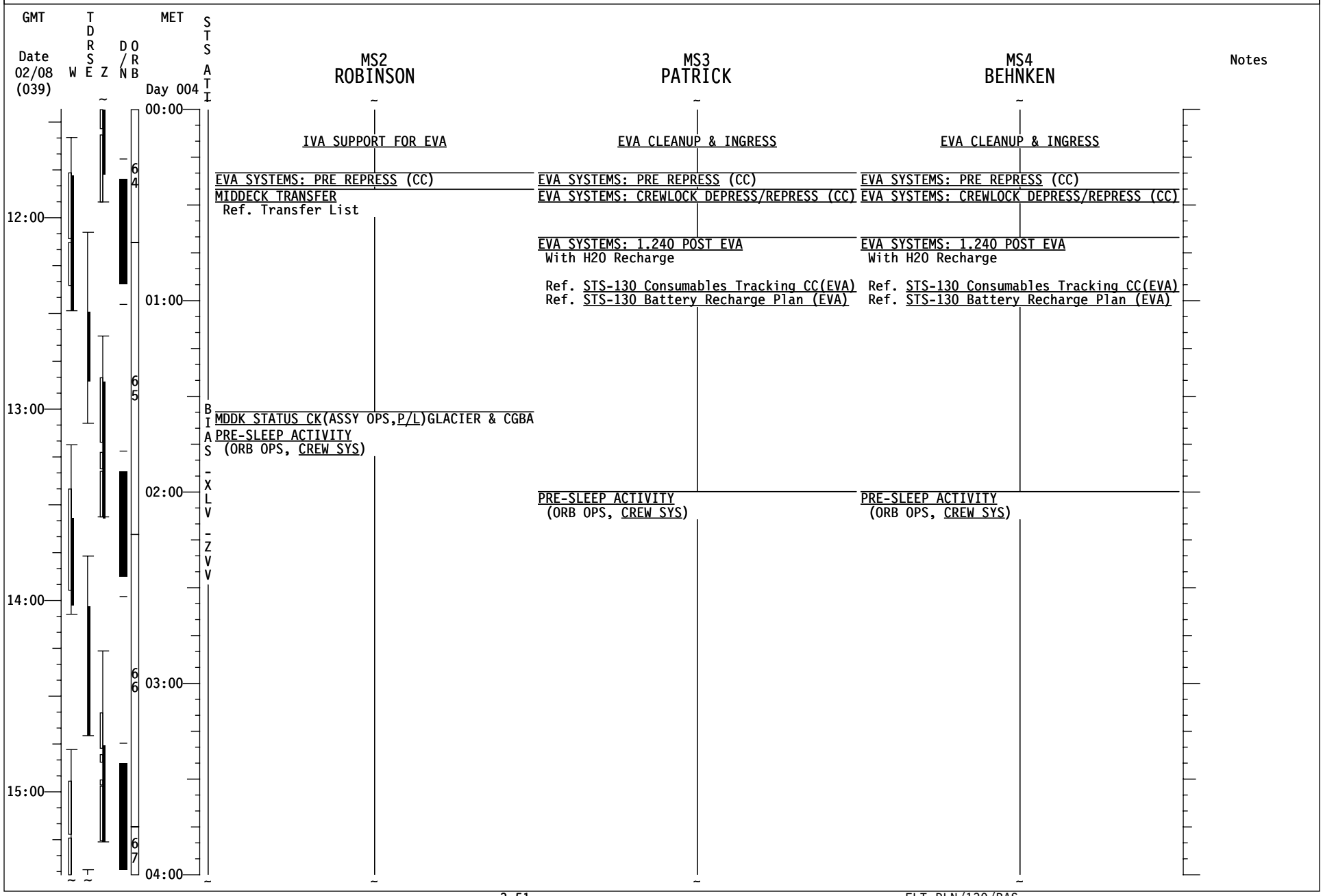
TRANSFER BRIEF
Call down status to MCC

CREW CHOICE DOWNLINK
(CUE CARD, PLAYBACK)
KU TDRW: 02:00-02:30

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

Notes

STS-130 FD05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Day 004
STS ATI
MS2 ROBINSON
MS3 PATRICK
MS4 BEHNKEN
Notes
00:00
01:00
02:00
03:00
04:00
12:00
13:00
14:00
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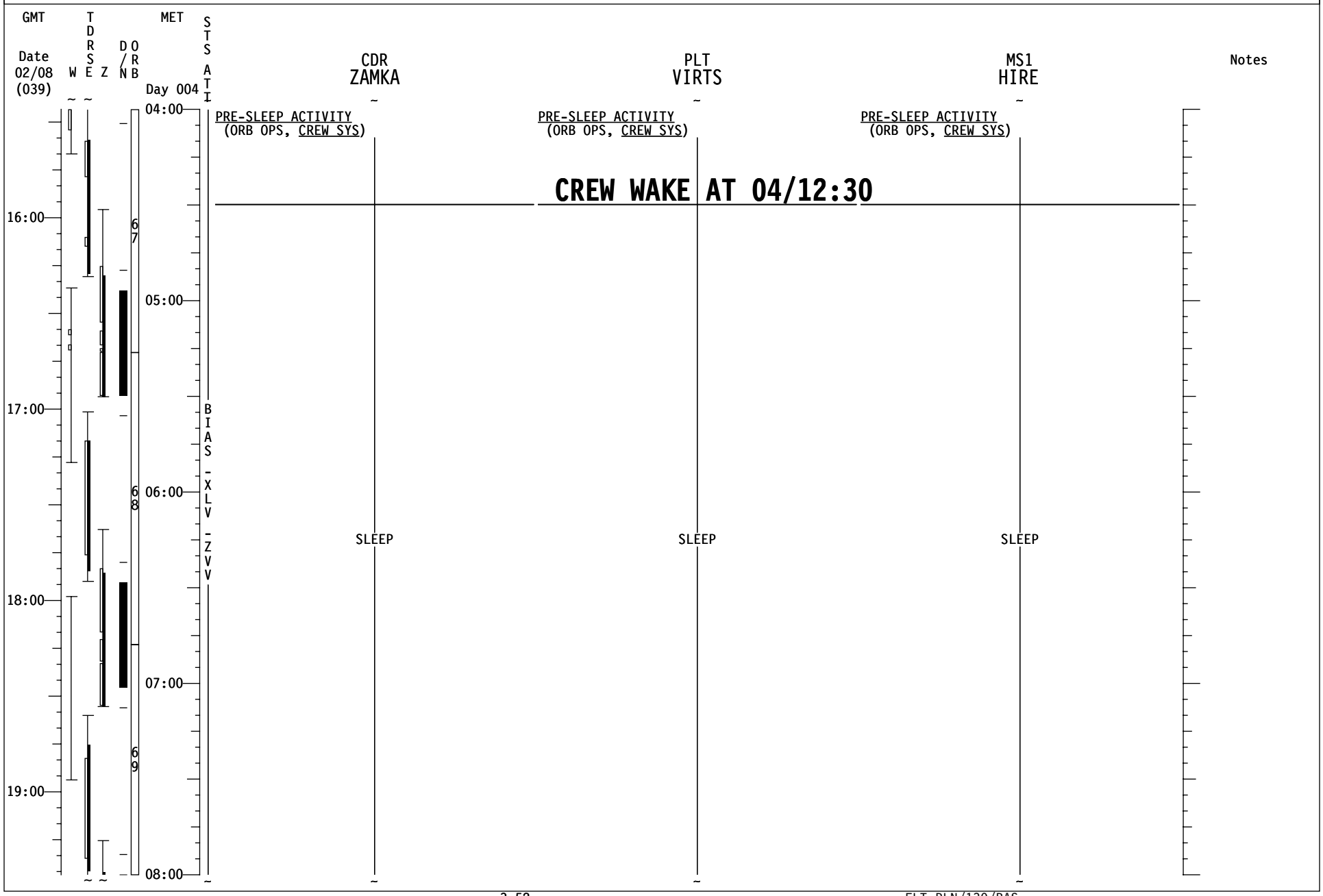
67
BIAS-XLV-ZVV
IVA SUPPORT FOR EVA
EVA CLEANUP & INGRESS
EVA CLEANUP & INGRESS
EVA SYSTEMS: PRE REPRESS (CC)
MIDDECK TRANSFER
Ref. Transfer List
EVA SYSTEMS: PRE REPRESS (CC)
EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS (CC)
EVA SYSTEMS: PRE REPRESS (CC)
EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS (CC)
EVA SYSTEMS: 1.240 POST EVA
With H2O Recharge
Ref. STS-130 Consumables Tracking CC(EVA)
Ref. STS-130 Battery Recharge Plan (EVA)
EVA SYSTEMS: 1.240 POST EVA
With H2O Recharge
Ref. STS-130 Consumables Tracking CC(EVA)
Ref. STS-130 Battery Recharge Plan (EVA)
MDDK STATUS CK(ASSY OPS,P/L)GLACIER & CGBA
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

STS-130 FD05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CDR ZAMKA
PLT VIRTS
MS1 HIRE
Notes
04:00
05:00
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16:00
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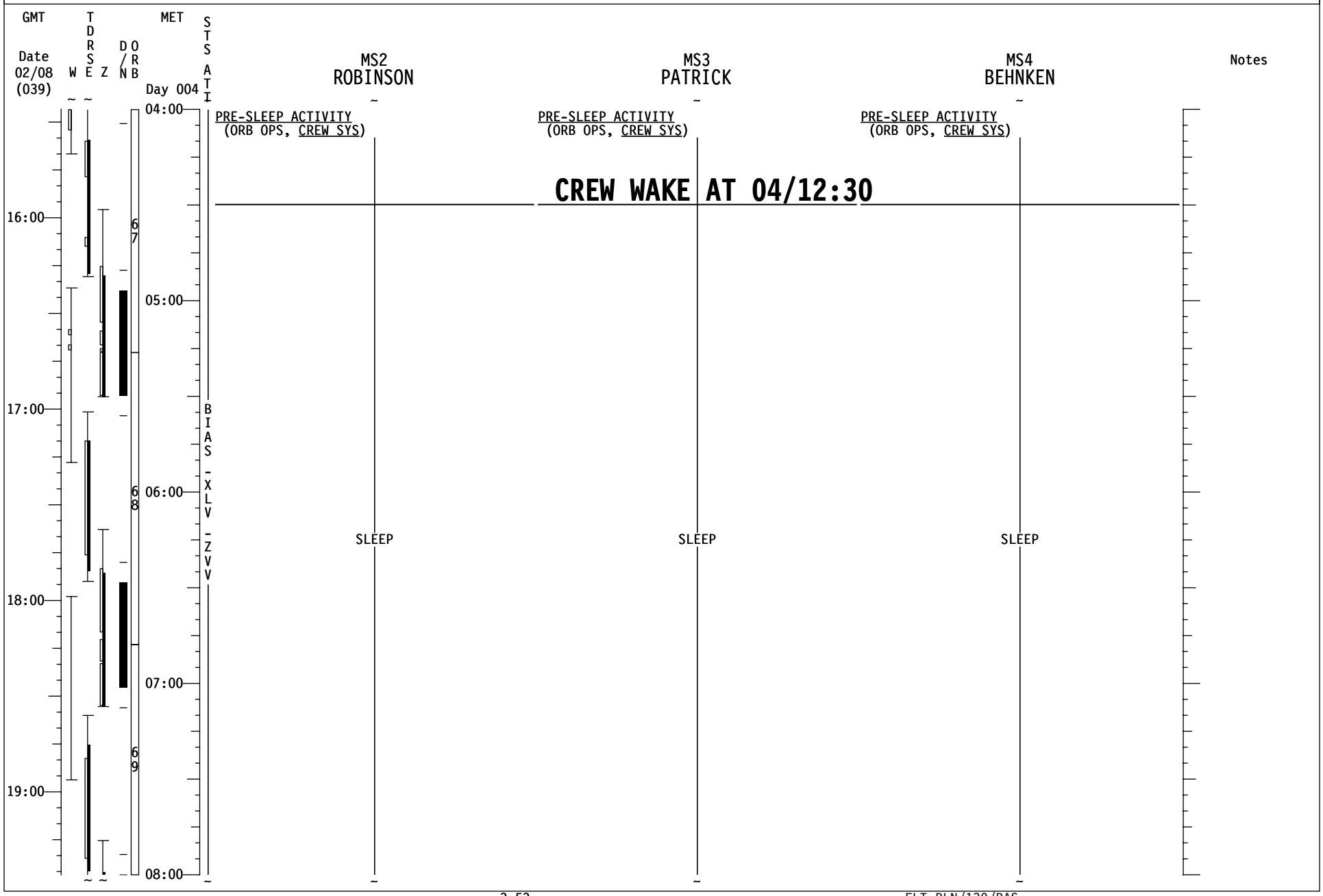
18:00
19:00
67
68
69
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
CREW WAKE AT 04/12:30
BIAS-XLV-ZVV
SLEEP
SLEEP
SLEEP

STS-130 FD05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STS ATI
MS2 ROBINSON
MS3 PATRICK
MS4 BEHNKEN
Notes
04:00
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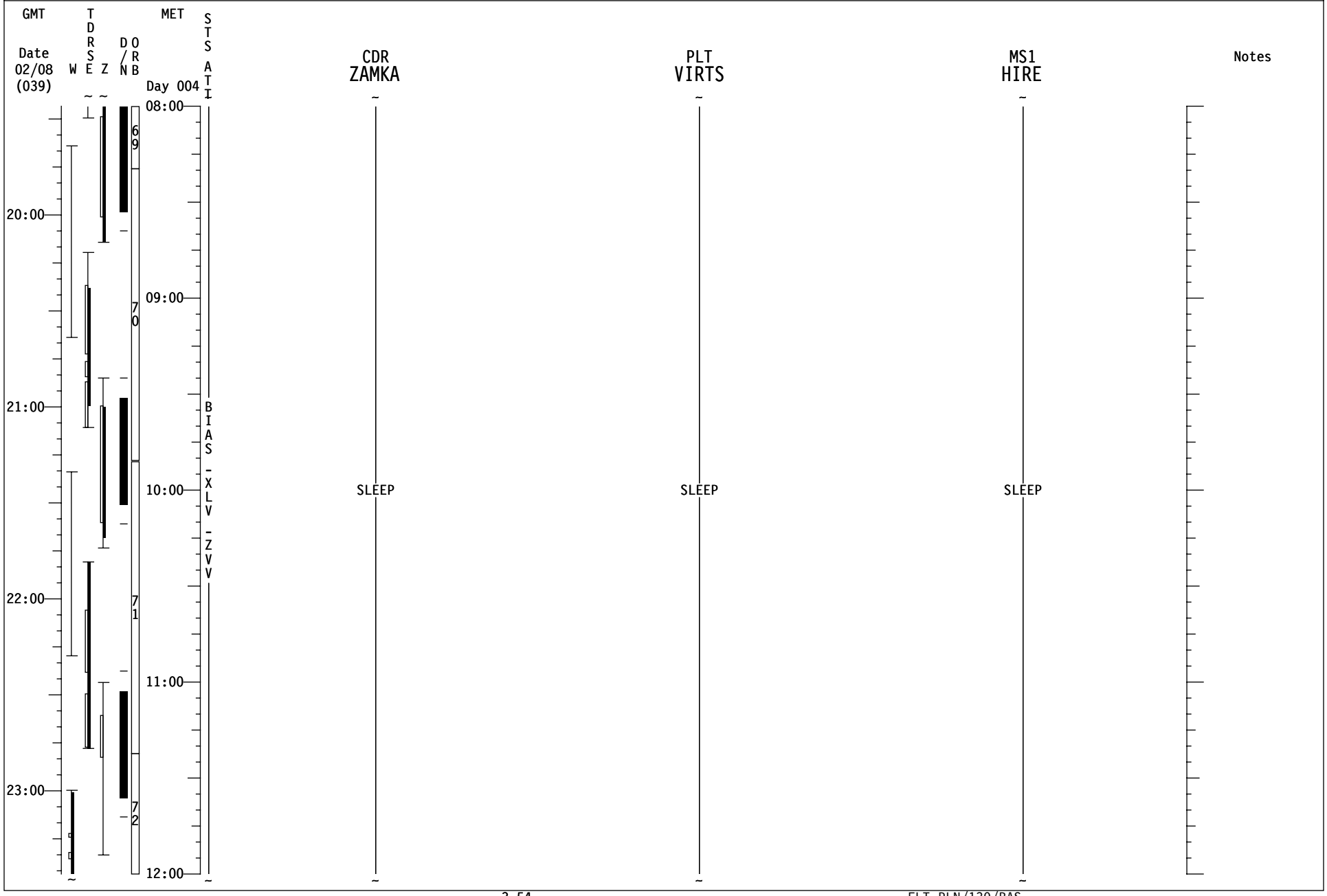
BIAS-XLV-ZVV
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
CREW WAKE AT 04/12:30
SLEEP
SLEEP
SLEEP

STS-130 FD05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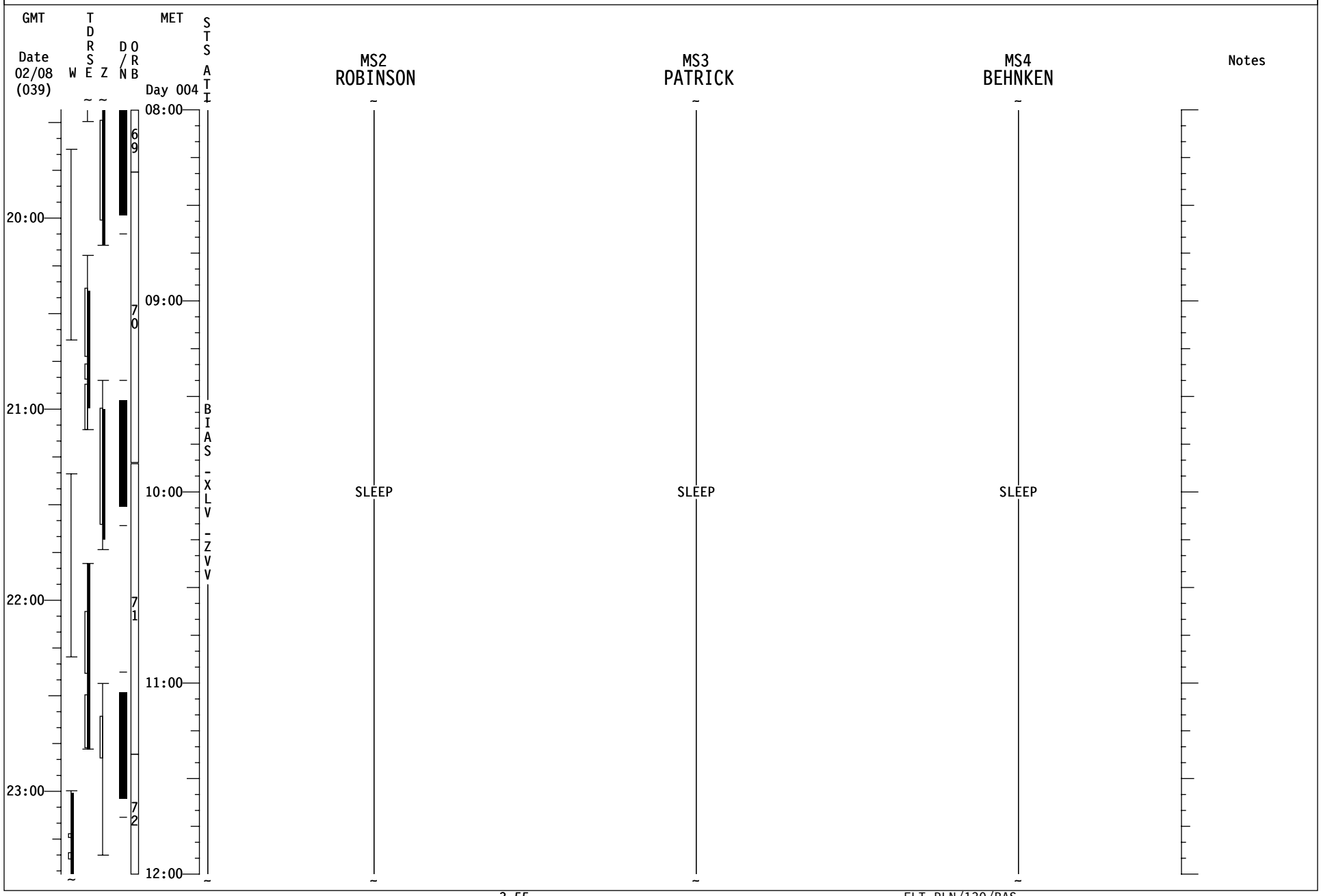
SLEEP
SLEEP
SLEEP

STS-130 FD05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MS2
ROBINSON
SLEEP
MS3
PATRICK
SLEEP
MS4
BEHNKEN
SLEEP
Notes

STS-130 FD06

GMT Date 02/08 (039) | W | TDRSE | Z | D/N | ORB | MET Day 004 | STS ATI

12:00 | 13:00 | 14:00 | 15:00 | 16:00

00:00 | 01:00 | 02:00 | 03:00

72 | 73 | 74

BIAS - XLV - ZVV

CDR ZAMKA	PLT VIRTS	MS1 HIRE	Notes
SLEEP	SLEEP	SLEEP	
SLEEP LOGBOOK (ORB OPS, SDBI)	SLEEP LOGBOOK (ORB OPS, SDBI)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
	IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)	L17 Check MCIU filter screen	
	ROBO: 2.310 SSRMS NODE 3 RELEASE AND MNVR TO FI SUPPORT Steps 1-3	ROBO: 2.310 SSRMS NODE 3 RELEASE AND MNVR TO FI SUPPORT Steps 1-3	
	ROBO: 2.310 SSRMS NODE 3 RELEASE AND MNVR TO FI SUPPORT Steps 4-6	ROBO: 2.310 SSRMS NODE 3 RELEASE AND MNVR TO FI SUPPORT Steps 4-6	
TV (ILLUMINATOR OPS) (PHOTO/TV, CC) ILLUMINATORS OFF - ALL	OBSS FOCUSED INPSECTION Ref. MSG XXX EXERCISE CONSTRAINT	OBSS FOCUSED INPSECTION Ref. MSG XXX EXERCISE CONSTRAINT	NO EXERCISE DURING LCS IMAGING

FD06 EZ ACTIVITIES:
- √OCAC FILTER
- TEPC (STATUS CHECK) (ORB OPS, CREW SYS)
- HARD REBOOT ALL PGSCs EXCEPT: STS-6(WLES),STS-5(RPOP2),& OCA ROUTER.

STS-130 FD06

GMT Date 02/08 (039) | W | TDRS E | Z | D/N | ORB | MET Day 004 | STS ATI

MS2 ROBINSON | MS3 PATRICK | MS4 BEHNKEN | Notes

12:00 — 13:00 — 14:00 — 15:00 — 16:00

00:00 — 01:00 — 02:00 — 03:00

72 — 73 — 74

BIAS-XLV-ZVV

MS2 ROBINSON

SLEEP

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

1.104 VESTIBULE OUTFITTING NOD1 TO NOD3 (ASSY OPS, ACT&C/O) Steps 1.5-7

MS3 PATRICK

SLEEP

EVA CREW: TAKE 1 ASPIRIN (325mg)

SLEEP LOGBOOK (ORB OPS, SDBI)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

P/TV06 ROBOTICS OPERATIONS (PHOTO/TV, SCENES) Perform SETUP

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MS4 BEHNKEN

SLEEP

EVA CREW: TAKE 1 ASPIRIN (325mg)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MDDK STATUS CK(ASSY OPS,P/L)GLACIER & CGBA

Notes

NO EXERCISE DURING LCS IMAGING

STS-130 FD06

GMT Date 02/09 (040) | W | T D R S E | Z | D/N | O R B | MET Day 004 | STS ATI

CDR ZAMKA | PLT VIRTS | MS1 HIRE | Notes

16:00 — 17:00 — 18:00 — 19:00 — 20:00

04:00 — 05:00 — 06:00 — 07:00

75 — 76 — 77

BIAS -XLV -ZVV

OBSS FOCUSED INPSECTION
Ref. MSG XXX
EXERCISE CONSTRAINT

OBSS FOCUSED INPSECTION
Ref. MSG XXX
EXERCISE CONSTRAINT

OBSS FOCUSED INPSECTION
Ref. MSG XXX
EXERCISE CONSTRAINT

1.104 VESTIBULE OUTFITTING NOD1 TO NOD3
(ASSY OPS, ACT&C/O)
Steps 8-20

MEAL

MEAL

NO EXERCISE DURING LCS IMAGING

STS-130 FD06

GMT Date 02/09 (040) | W | TDRS E | Z | D/N | ORB | MET Day 004 | STS ATI

MS2 ROBINSON | MS3 PATRICK | MS4 BEHNKEN | Notes

16:00

1.104 VESTIBULE OUTFITTING NOD1 TO NOD3
(ASSY OPS, ACT&C/O)
Steps 1.5-7

EVA 2 TOOL CONFIG
(EVA, TIMELINES)

EVA 2 TOOL CONFIG
(EVA, TIMELINES)

04:00

75

17:00

NO EXERCISE DURING LCS IMAGING

EVA 2 TOOL CONFIG
(EVA, TIMELINES)

05:00

BIAS-XLV-ZVV

18:00

1.104 VESTIBULE OUTFITTING NOD1 TO NOD3
(ASSY OPS, ACT&C/O)
Steps 8-20

EVA TOOL AUDIT
Ref. EVA 2 TOOL CONFIG (EVA, TIMELINES)

EVA TOOL AUDIT
Ref. EVA 2 TOOL CONFIG (EVA, TIMELINES)

76

QD FAM OPS
(EVA, TIMELINES)

Ref. STS-130 Consumables Tracking CC(EVA)

QD FAM OPS
(EVA, TIMELINES)

Ref. STS-130 Consumables Tracking CC(EVA)

06:00

19:00

SHUTTLE/ISS H2O CONTAINER FILL (HC)
(ORB OPS, ECLS) Init Fill #3
Ref. MSG XXX

77

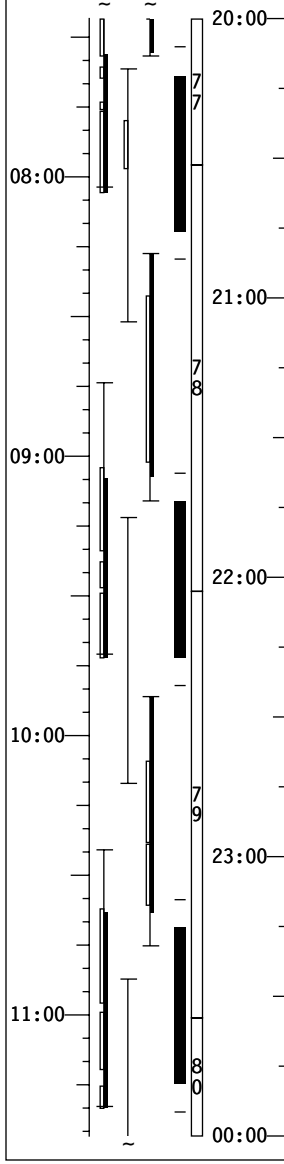
07:00

EXERCISE

20:00

STS-130 FD06

GMT Date 02/09 (040) | W | TDRSE | Z | D/N | ORB | MET Day 004 | STS ATI | CDR ZAMKA | PLT VIRTS | MS1 HIRE | Notes



20:00
21:00
22:00
23:00
00:00

BIAS-XLV-ZVV

CDR ZAMKA

1.104 VESTIBULE OUTFITTING NOD1 TO NOD3
(ASSY OPS, ACT&C/O)
Steps 8-20

MEAL

1.104 VESTIBULE OUTFITTING NOD1 TO NOD3
(ASSY OPS, ACT&C/O)
Steps 8-20

PLT VIRTS

MEAL

ROBO: 2.315 SSRMS MNVR FROM FI SUPPORT TO LAB PDGF

1.114 NODE 3 PORT AFT IMV CAP INSTALL
(ASSY OPS, ACT&C/O)

1.116 NODE 3 PORT CBM CNTR DISC CVR INSTL
(ASSY OPS, ACT&C/O)

1.320 SSRMS NODE2 RELEASE & MNVR TO OVERNIGHT PARK

MS1 HIRE

MEAL

ROBO: 2.315 SSRMS MNVR FROM FI SUPPORT TO LAB PDGF

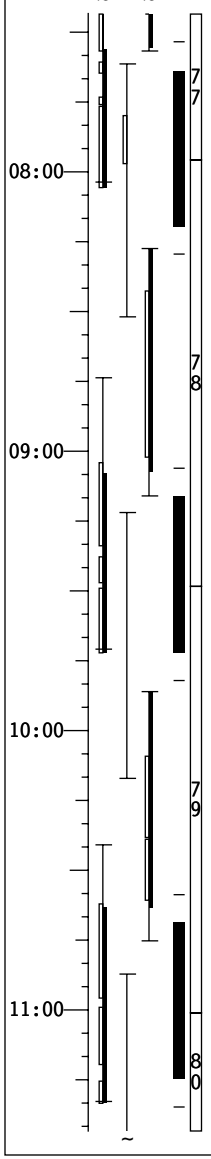
1.114 NODE 3 PORT AFT IMV CAP INSTALL
(ASSY OPS, ACT&C/O)

1.116 NODE 3 PORT CBM CNTR DISC CVR INSTL
(ASSY OPS, ACT&C/O)

1.320 SSRMS NODE2 RELEASE & MNVR TO OVERNIGHT PARK

STS-130 FD06

GMT Date 02/09 (040) | W | TDRSE | Z | D/N | ORB | MET Day 004 | STS ATI



20:00 – 00:00

BIAS - XLV - ZVV

MS2 ROBINSON	MS3 PATRICK	MS4 BEHNKEN	Notes
1.104 VESTIBULE OUTFITTING NOD1 TO NOD3 (ASSY OPS, ACT&C/O) Steps 8-20		EXERCISE SHUTTLE/ISS H2O CONTAINER FILL (HC) (ORB OPS, ECLS) Perform FILL TERMINATION	
MEAL	MEAL	MEAL	
1.104 VESTIBULE OUTFITTING NOD1 TO NOD3 (ASSY OPS, ACT&C/O) Steps 8-20	PLAYBACK (DIGITAL) (PHOTO/TV, CUE CARD) KU TDRW (21:37-21:54) (21:57-22:04) (22:04-22:17) Gimbal Flip: 22:04	EVA SYSTEMS: 1.605 BSA BATTERY RECHARGE TERMINATE A EVA SYSTEMS: 1.605 BSA BATTERY RECHARGE INITIATE A EMU LIOH & BATTERY INSTALL A Ref. EVA SYS: 1.515 EMU METOX/LIOH/BATTERY REPLACEMENT	
	PUBLIC AFFAIRS EVENT ISS KU AVAIL: 22:10-22:38	PUBLIC AFFAIRS EVENT ISS KU AVAIL: 22:10-22:38	
A Ref. STS-130 Consumables Tracking CC(EVA) Ref. STS-130 Battery Recharge Plan (EVA)	EXERCISE	CWC TRANSFER Transfer CWC to ISS PWR FILL (ORB OPS, ECLS) Perform WATER FILL #1 Fill SN TBS (Barcode #TBS) Fill dur ~30 min PWR TRANSFER Transfer PWR to ISS	
	EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP Fill 2 Drink Bags (1 per EVA crew member)	EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP Fill 2 Drink Bags (1 per EVA crew member)	

STS-130 FD06

GMT Date 02/09 (040) | W | TDRSE | Z | D/N | ORB | MET Day 005 | STS ATI

12:00 | 13:00 | 14:00 | 15:00

00:00 | 01:00 | 02:00 | 03:00 | 04:00

80 | 81 | 82

BIAS - XLV - ZVV

CDR ZAMKA

1.104 VESTIBULE OUTFITTING NOD1 TO NOD3
(ASSY OPS, ACT&C/O)
Steps 8-20

EVA PROCEDURE REVIEW
Ref. EVA 2 BRIEFING CARD
(EVA, TIMELINES)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

FLIGHT DIRECTOR CONFERENCE
PRIVATE MEDICAL CONFERENCE
L9 PAYLOAD STATION A/G (two) - OFF
Perform via A/G2

EVA SYSTEMS: 1.206 10.2 PSIA CAMPOUT MASK
PREBREATHE Steps 1-16

Ref. STS-130 Consumables Tracking CC(EVA)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PLT VIRTS

1.320 SSRMS NODE2 RELEASE & MNVR TO OVERNIGHT PARK
ROBO: 1.410 SSRMS MNVR TO CUPOLA & GRAPPLE
Steps 1-4

X.XXX VACUUM ACCESS JUMPER FIT CHECK

EVA PROCEDURE REVIEW
Ref. EVA 2 BRIEFING CARD
(EVA, TIMELINES)

PUBLIC AFFAIRS EVENT
ISS KU AVAIL: 01:20-01:58

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS1 HIRE

1.320 SSRMS NODE2 RELEASE & MNVR TO OVERNIGHT PARK
ROBO: 1.410 SSRMS MNVR TO CUPOLA & GRAPPLE
Steps 1-4

X.XXX VACUUM ACCESS JUMPER FIT CHECK

EVA PROCEDURE REVIEW
Ref. EVA 2 BRIEFING CARD
(EVA, TIMELINES)

PUBLIC AFFAIRS EVENT
ISS KU AVAIL: 01:20-01:58

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

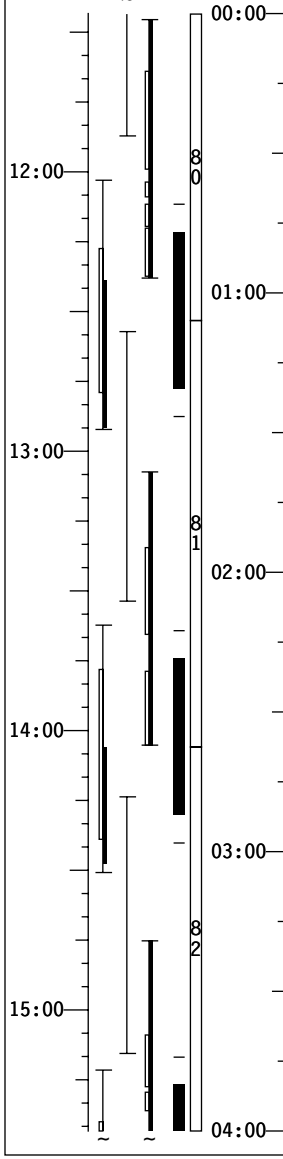
CREW CHOICE DOWNLINK
(CUE CARD, PLAYBACK)
KU TDRZ: 01:55-02:13

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

Notes

STS-130 FD06

GMT Date 02/09 (040) | W | TDRSE | Z | D/N | ORB | MET Day 005 | STS ATI | MS2 ROBINSON | MS3 PATRICK | MS4 BEHNKEN | Notes



MS2 ROBINSON

1.104 VESTIBULE OUTFITTING NOD1 TO NOD3
(ASSY OPS, ACT&C/O)
Steps 8-20

EVA PROCEDURE REVIEW
Ref. EVA 2 BRIEFING CARD
(EVA, TIMELINES)

EXERCISE

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS3 PATRICK

EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP
Fill 2 Drink Bags (1 per EVA crew member)

EVA PROCEDURE REVIEW
Ref. EVA 2 BRIEFING CARD
(EVA, TIMELINES)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EVA SYSTEMS: 1.206 10.2 PSIA CAMPOUT MASK PREBREATHE

Ref. STS-130 Consumables Tracking CC(EVA)

MS4 BEHNKEN

EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP
Fill 2 Drink Bags (1 per EVA crew member)

MDDK STATUS CK(ASSY OPS,P/L)GLACIER & CGBA

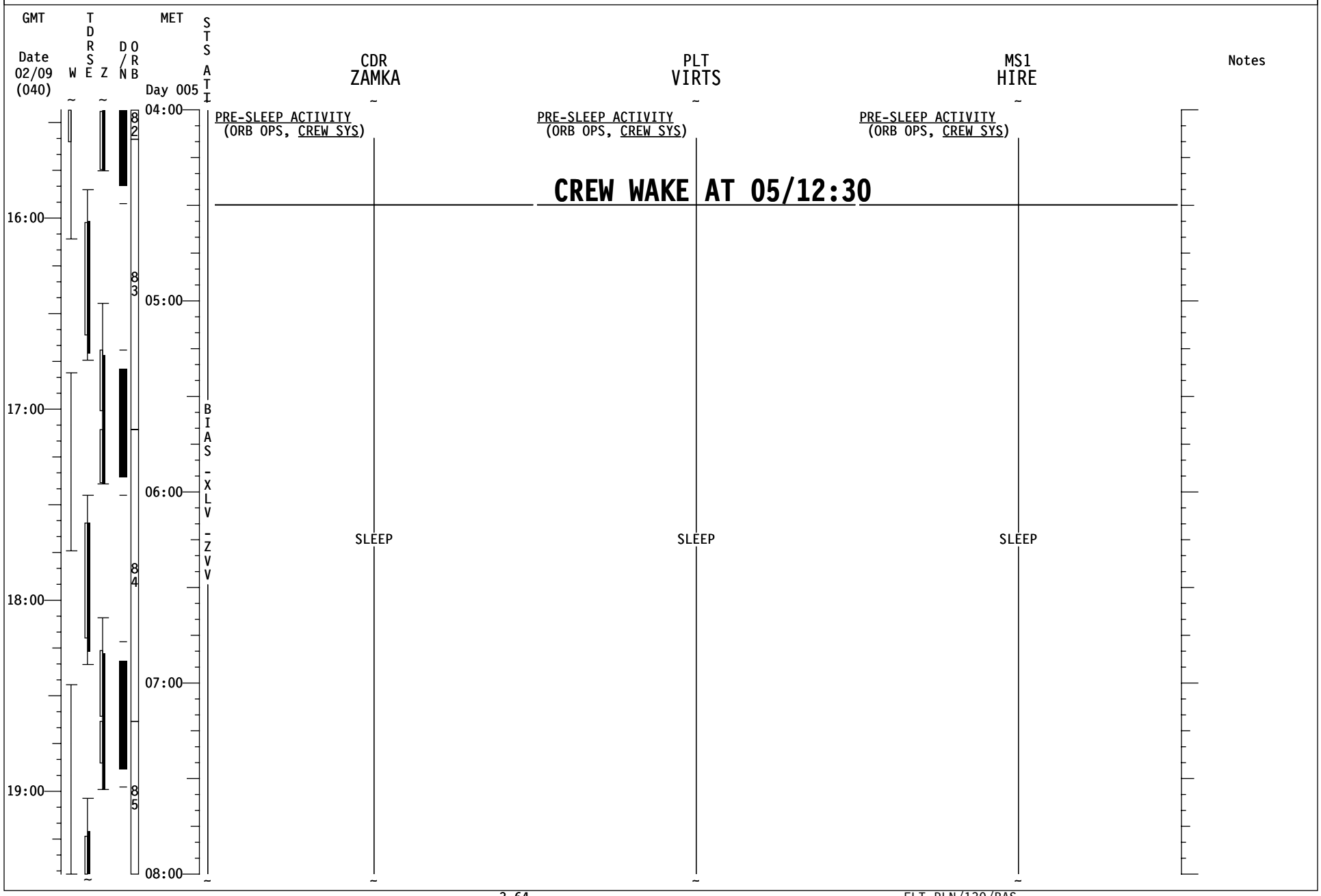
EVA PROCEDURE REVIEW
Ref. EVA 2 BRIEFING CARD
(EVA, TIMELINES)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EVA SYSTEMS: 1.206 10.2 PSIA CAMPOUT MASK PREBREATHE

Ref. STS-130 Consumables Tracking CC(EVA)

STS-130 FD06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PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
CREW WAKE AT 05/12:30
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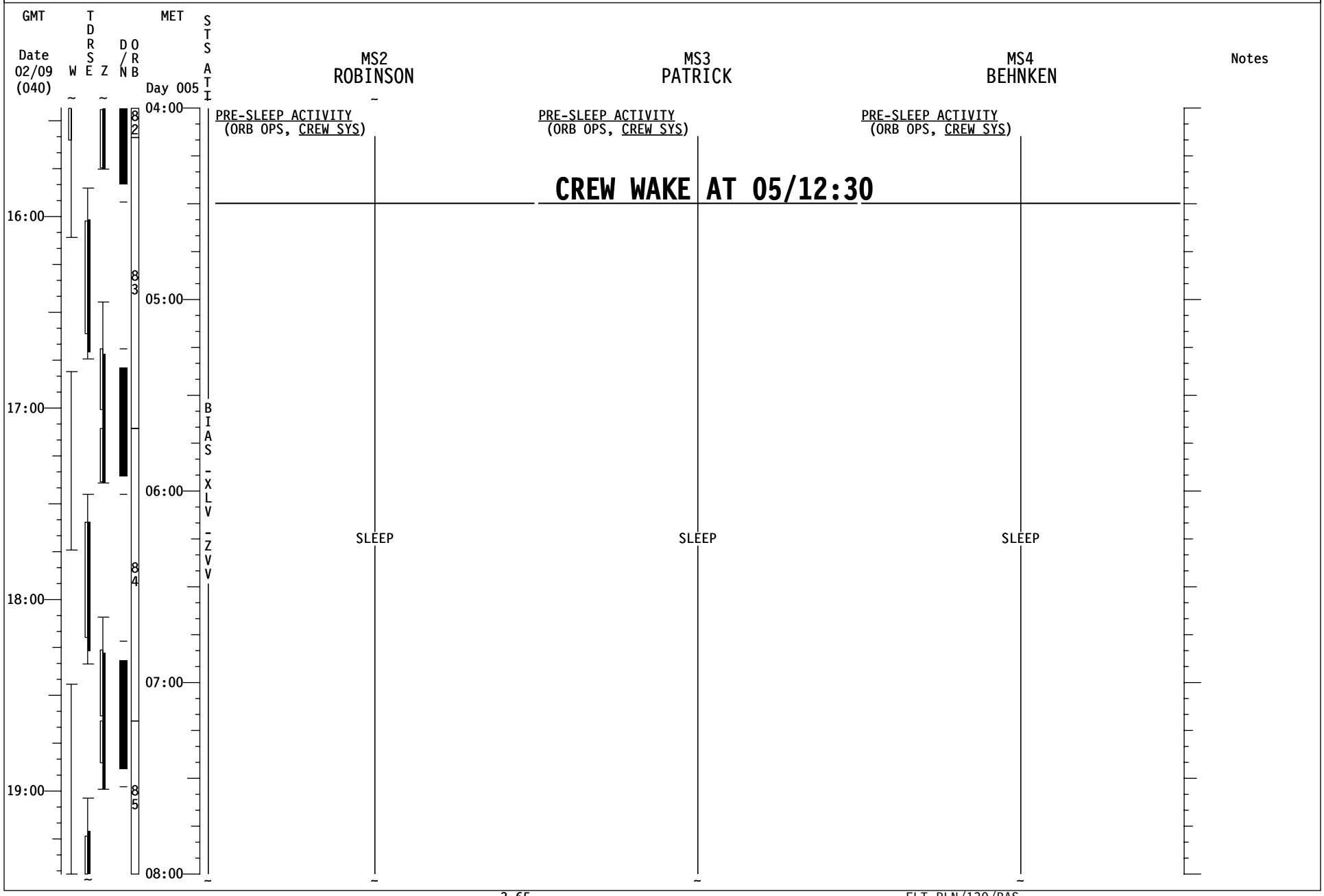
SLEEP

STS-130 FD06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MS2
ROBINSON
MS3
PATRICK
MS4
BEHNKEN
Notes
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06:00
07:00
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83
84
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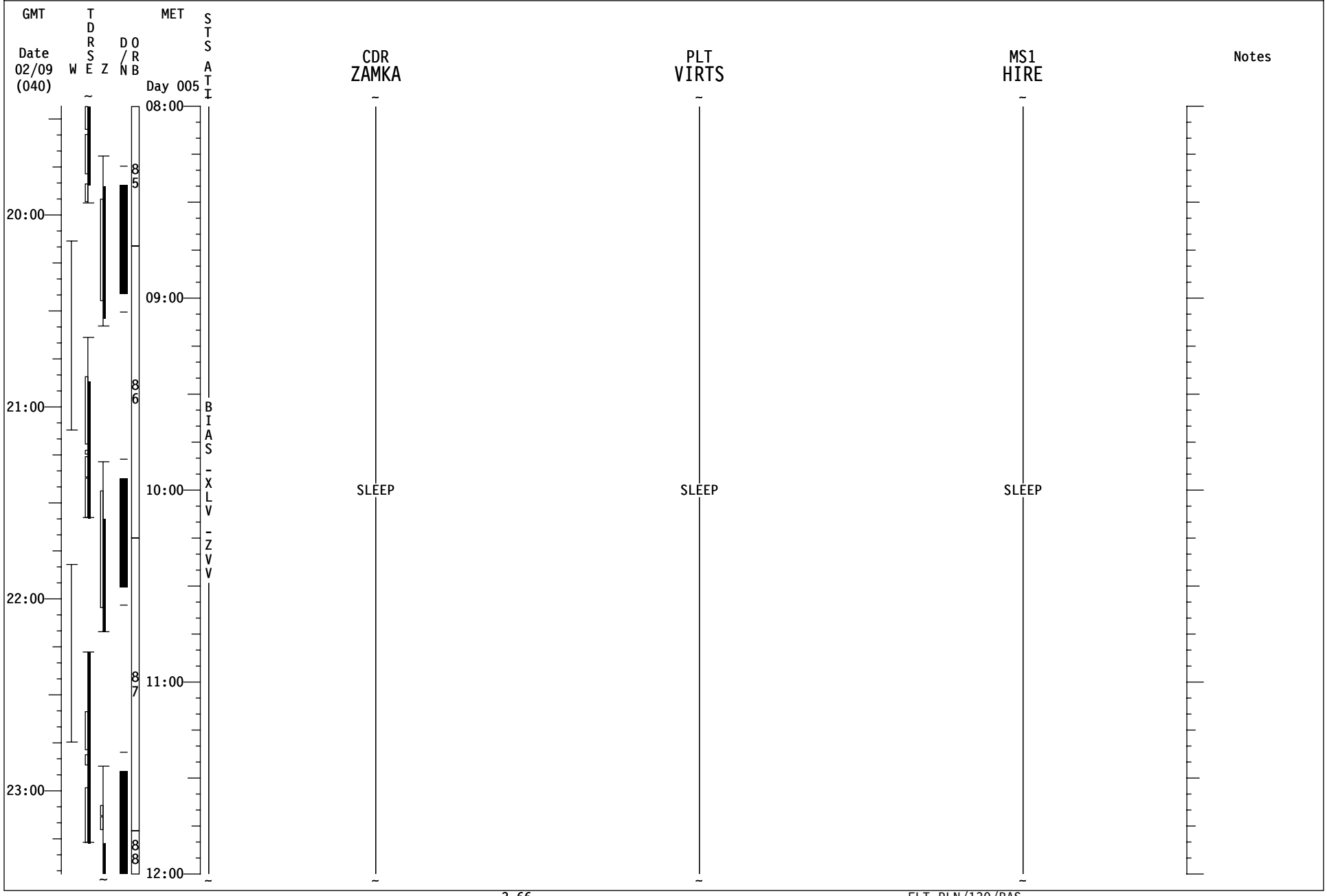
BIAS-XLV-ZVV
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
CREW WAKE AT 05/12:30
SLEEP
SLEEP
SLEEP

STS-130 FD06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CDR
ZAMKA
SLEEP
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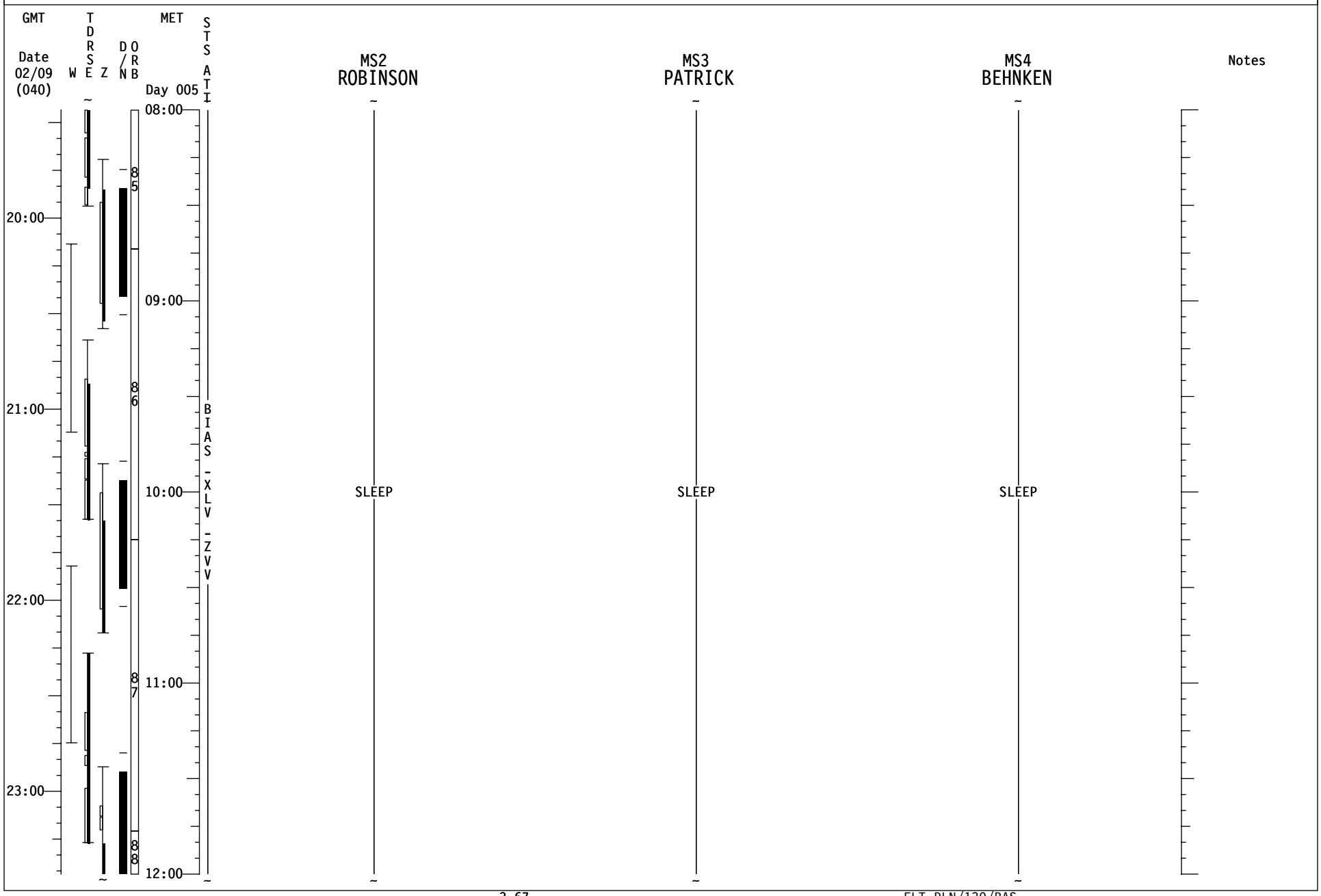
VIRTS
SLEEP
MS1
HIRE
SLEEP
Notes

STS-130 FD06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MS2
ROBINSON
MS3
PATRICK
MS4
BEHNKEN
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85
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88
SLEEP
SLEEP
SLEEP

STS-130 FD07

GMT Date 02/09 (040) | W | TDRSE | Z | D/N | ORB | MET Day 005 | STS ATI

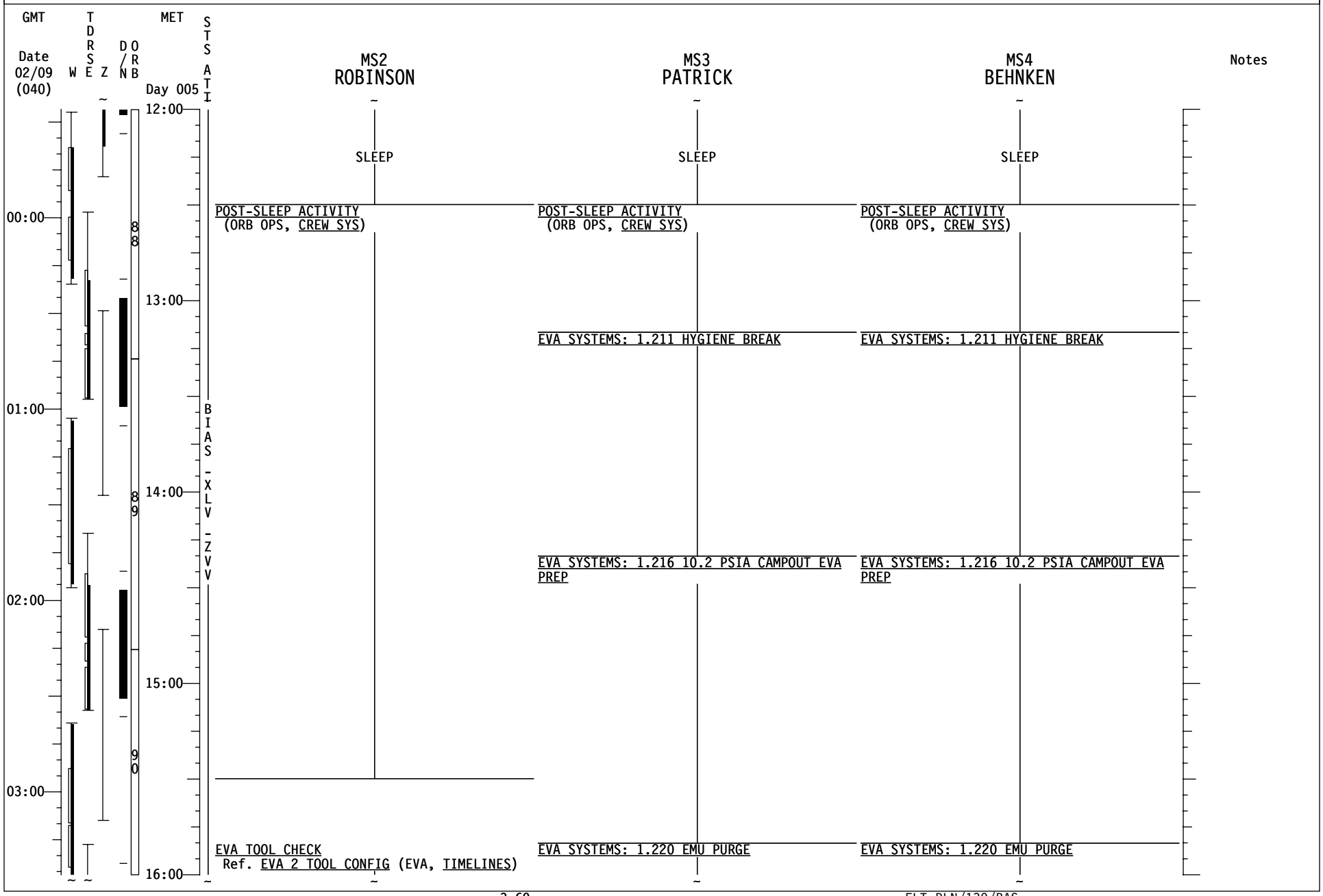
CDR ZAMKA	PLT VIRTS	MS1 HIRE	Notes
SLEEP	SLEEP	SLEEP	
SLEEP LOGBOOK (ORB OPS, SDBI)	SLEEP LOGBOOK (ORB OPS, SDBI)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
BIAS-XLV-ZVV: PRIVATE MEDICAL CONFERENCE L9 PAYLOAD STATION A/G (two) - OFF Perform via A/G2			
EVA SYSTEMS: 1.211 HYGIENE BREAK			
EVA SYSTEMS: 1.216 10.2 PSIA CAMPOUT EVA PREP			
	IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)	1.118 NOD3 STBD NPRV RMVL & IMV VLV INSTL (ASSY OPS, ACT&C/O) Steps 1-5,7-end for Stbd Ovhd Valve	
	L17 Check MCIU filter screen		
	EVA 2 INHIBIT PAD (EVA, TIMELINES)		
EVA SYSTEMS: 1.220 EMU PURGE			

FD07 EZ ACTIVITIES:
√OCAC FILTER
TEPC (STATUS CHECK) (ORB OPS, CREW SYS)
HARD REBOOT ALL PGSCs EXCEPT: STS-6(WLES),STS-5(RPOP2),& OCA ROUTER.

Time scale: 00:00, 01:00, 02:00, 03:00; 12:00, 13:00, 14:00, 15:00, 16:00

Z: 88, 89, 90

STS-130 FD07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Day 005
STS ATI
MS2 ROBINSON
MS3 PATRICK
MS4 BEHNKEN
Notes
12:00
13:00
14:00
15:00
16:00
00:00
01:00
02:00
03:00
88
89
90
BIAS - XLV - ZVV
SLEEP
SLEEP
SLEEP
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
EVA SYSTEMS: 1.211 HYGIENE BREAK
EVA SYSTEMS: 1.211 HYGIENE BREAK
EVA SYSTEMS: 1.216 10.2 PSIA CAMPOUT EVA PREP
EVA SYSTEMS: 1.216 10.2 PSIA CAMPOUT EVA PREP
EVA TOOL CHECK
Ref. EVA 2 TOOL CONFIG (EVA, TIMELINES)
EVA SYSTEMS: 1.220 EMU PURGE
EVA SYSTEMS: 1.220 EMU PURGE

STS-130 FD07

GMT Date 02/10 (041) | W | TDRS E | Z | D/N | ORB | MET Day 005 | STS ATI

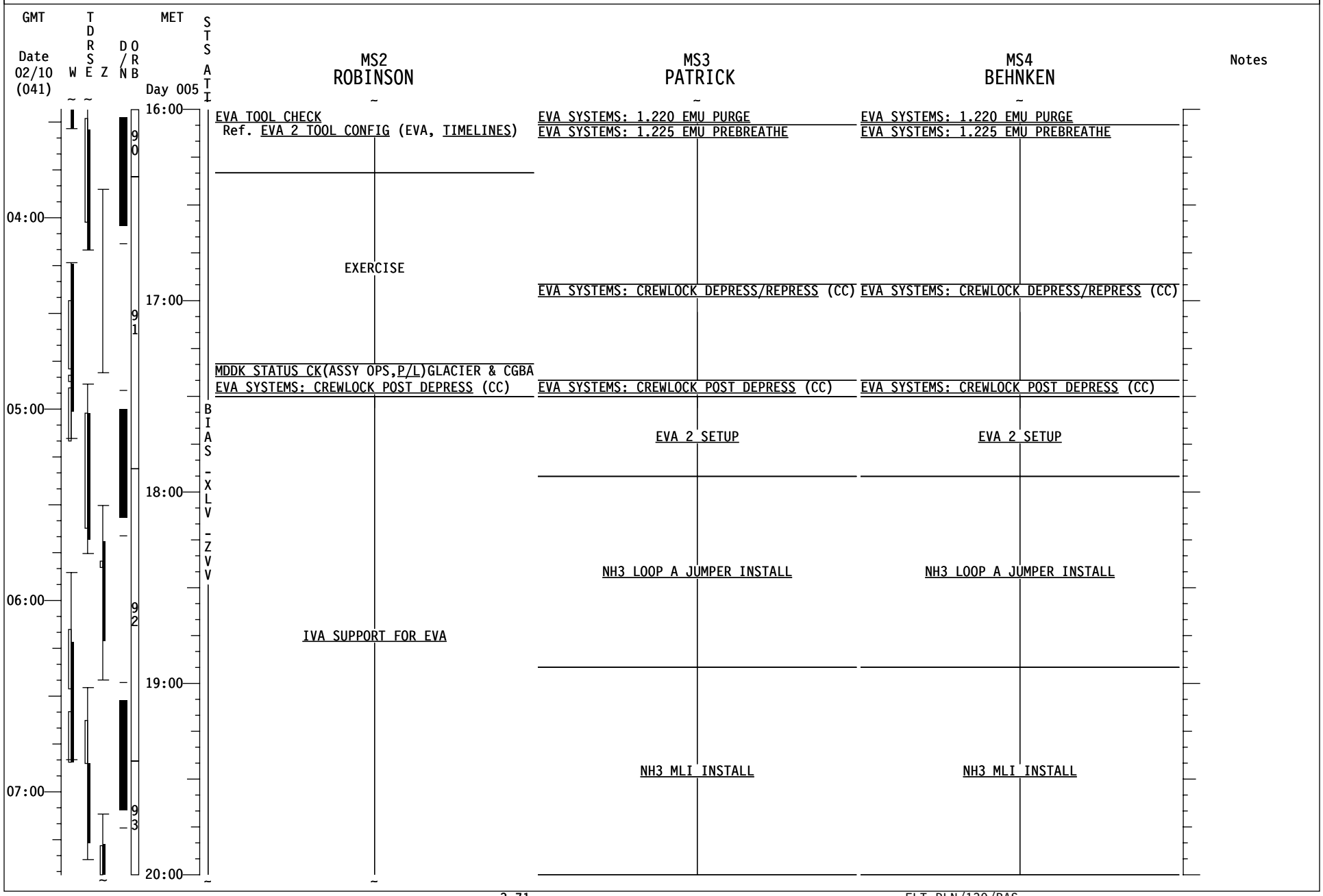
CDR ZAMKA	PLT VIRTS	MS1 HIRE	Notes
EVA SYSTEMS: 1.220 EMU PURGE EVA SYSTEMS: 1.225 EMU PREBREATHE	P/TV07 EVA (PHOTO/TV, SCENES) Perform SETUP	1.118 NOD3 STBD NPRV RMVL & IMV VLV INSTL (ASSY OPS, ACT&C/O) Steps 1-5,7-end for Stbd Ovhd Valve	
	ISP STOWAGE TRANSFER Ref. Transfer List	ISP STOWAGE TRANSFER Ref. Transfer List	
EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS (CC)			
EVA SYSTEMS: CREWLOCK POST DEPRESS (CC) PRLA CLOSE (ORB OPS, PRLA)			
	ISP STOWAGE TRANSFER Ref. Transfer List	ISP STOWAGE TRANSFER Ref. Transfer List	
EXERCISE			
P/TV07 EVA (PHOTO/TV, SCENES) Perform OPS			
	1.172 CUPOLA VEST DEPRESS (NODE 3 PORT) (ASSY OPS, ACT&C/O) Steps 1-5	1.172 CUPOLA VEST DEPRESS (NODE 3 PORT) (ASSY OPS, ACT&C/O) Steps 1-5	

Time scale: 04:00, 05:00, 06:00, 07:00; MET 16:00, 17:00, 18:00, 19:00, 20:00

D/N: 90, 91, 92, 93

STS ATI: BIAS-XLV-ZVV

STS-130 FD07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STS ATI
MS2 ROBINSON
MS3 PATRICK
MS4 BEHNKEN
Notes
16:00
17:00
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19:00
20:00
04:00
05:00
06:00
07:00
90
91
92
93
BIAS - XLV - ZVV
EVA TOOL CHECK
Ref. EVA 2 TOOL CONFIG (EVA, TIMELINES)
EXERCISE
MDDK STATUS CK(ASSY OPS,P/L)GLACIER & CGBA
EVA SYSTEMS: CREWLOCK POST DEPRESS (CC)
IVA SUPPORT FOR EVA
EVA SYSTEMS: 1.220 EMU PURGE
EVA SYSTEMS: 1.225 EMU PREBREATHE
EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS (CC)
EVA SYSTEMS: CREWLOCK POST DEPRESS (CC)
EVA 2 SETUP
NH3 LOOP A JUMPER INSTALL
NH3 MLI INSTALL
EVA SYSTEMS: 1.220 EMU PURGE
EVA SYSTEMS: 1.225 EMU PREBREATHE
EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS (CC)
EVA SYSTEMS: CREWLOCK POST DEPRESS (CC)
EVA 2 SETUP
NH3 LOOP A JUMPER INSTALL
NH3 MLI INSTALL

STS-130 FD07

GMT Date 02/10 (041) | W | TDRSE | Z | D/N | ORB | MET Day 005 | STS ATI

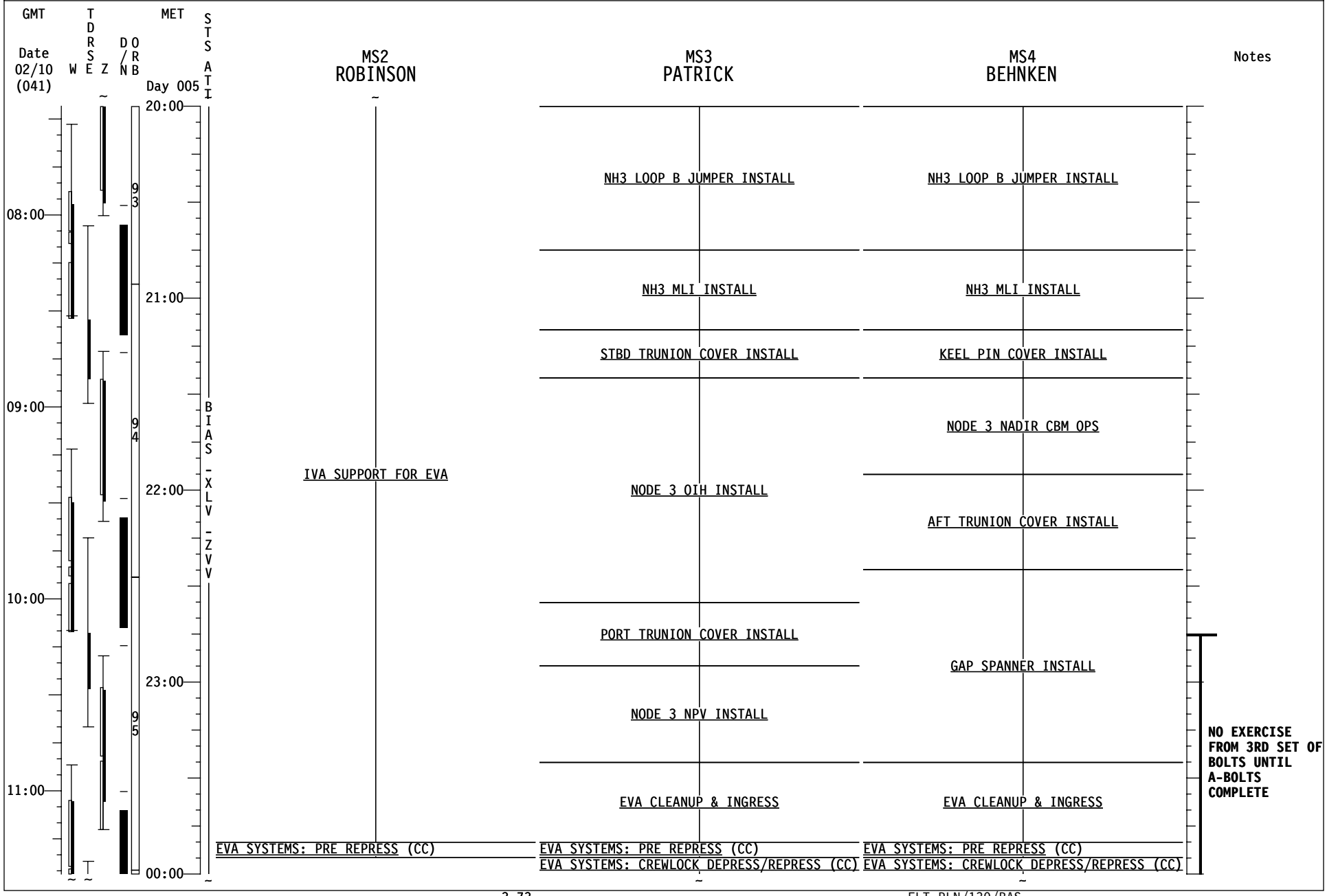
CDR ZAMKA	PLT VIRTS	MS1 HIRE	Notes
P/TV07 EVA (PHOTO/TV, SCENES) Perform OPS	1.172 CUPOLA VEST DEPRESS (NODE 3 PORT) (ASSY OPS, ACT&C/O) Steps 1-5 1.118 NODE 3 STBD NPRV RMVL & IMV VLV INSTL (ASSY OPS, ACT&C/O) Step 6 for Node 3 Stbd Ovhd Valve	1.172 CUPOLA VEST DEPRESS (NODE 3 PORT) (ASSY OPS, ACT&C/O) Steps 1-5 S&M: 1.403 CBCS INSTALL/REMOVAL-GEN Steps 8,10,11.3-11.5 1.120 NODE 3 PPRV SAMPLE PORT CAP RMVL (ASSY OPS, ACT&C/O)	
	1.172 CUPOLA VEST DEPRESS (NODE 3 PORT) (ASSY OPS, ACT&C/O) Step 6	1.172 CUPOLA VEST DEPRESS (NODE 3 PORT) (ASSY OPS, ACT&C/O) Step 6 1.120 NODE 3 PPRV SAMPLE PORT CAP RMVL (ASSY OPS, ACT&C/O)	
A Ref. STS-130 Consumables Tracking CC(EVA) Ref. STS-130 Battery Recharge Plan (EVA)			
EVA SYSTEMS: 1.605 BSA BATTERY RECHARGE TERMINATE A	1.172 CUPOLA VEST DEPRESS (NODE 3 PORT) (ASSY OPS, ACT&C/O) Steps 7-9	1.172 CUPOLA VEST DEPRESS (NODE 3 PORT) (ASSY OPS, ACT&C/O) Steps 7-9	
SHUTTLE/ISS H2O CONTAINER FILL (HC) (ORB OPS, ECLS) Init Fill #4 Ref. MSG XXX			
MEAL	EXERCISE	MEAL	
SHUTTLE/ISS H2O CONTAINER FILL (HC) (ORB OPS, ECLS) Perform FILL TERMINATION		S&M: 1.539 CBM CUPOLA RELOCATE: NODE 3 PORT TO NODE 3 NADIR Step 1	NO EXERCISE FROM 3RD SET OF BOLTS UNTIL A-BOLTS COMPLETE
CWC TRANSFER Transfer CWC to ISS			
P/TV07 EVA (PHOTO/TV, SCENES) Perform OPS	MEAL		
EVA SYSTEMS: PRE REPRESS (CC) EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS (CC)	ROBO: 1.410 SSRMS CUPOLA GRPL & UNBRTH Steps 5-6 EXERCISE CONSTRAINT	ROBO: 1.410 SSRMS CUPOLA GRPL & UNBRTH Steps 5-6 EXERCISE CONSTRAINT	

Time scale: 08:00, 09:00, 10:00, 11:00; 20:00, 21:00, 22:00, 23:00, 00:00

Day 005: 93, 94, 95

BIAS-XLV-ZVV

STS-130 FD07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B I A S - X L V - Z V V
MS2
ROBINSON
IVA SUPPORT FOR EVA
MS3
PATRICK
NH3 LOOP B JUMPER INSTALL
NH3 MLI INSTALL
STBD TRUNION COVER INSTALL
NODE 3 OIH INSTALL
PORT TRUNION COVER INSTALL
NODE 3 NPV INSTALL
EVA CLEANUP & INGRESS
MS4
BEHNKEN
NH3 LOOP B JUMPER INSTALL
NH3 MLI INSTALL
KEEL PIN COVER INSTALL
NODE 3 NADIR CBM OPS
AFT TRUNION COVER INSTALL
GAP SPANNER INSTALL
EVA CLEANUP & INGRESS
Notes
NO EXERCISE FROM 3RD SET OF BOLTS UNTIL A-BOLTS COMPLETE
EVA SYSTEMS: PRE REPRESS (CC)
EVA SYSTEMS: PRE REPRESS (CC)
EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS (CC)
EVA SYSTEMS: PRE REPRESS (CC)
EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS (CC)

STS-130 FD07

GMT Date 02/10 (041) | W | TDRS E | Z | D/N | ORB | MET Day 006 | STS ATI

CDR ZAMKA | PLT VIRTS | MS1 HIRE | Notes

00:00

EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS (CC)

EVA SYSTEMS: 1.240 POST EVA
With H2O Recharge

Ref. STS-130 Consumables Tracking CC(EVA)
Ref. STS-130 Battery Recharge Plan (EVA)

12:00

96

01:00

13:00

EVA SYSTEMS: 1.605 BSA BATTERY RECHARGE
INITIATE
Ref. STS-130 Consumables Tracking CC(EVA)
Ref. STS-130 Battery Recharge Plan (EVA)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

BIAS_XLV-ZVV

02:00

97

14:00

FLIGHT DIRECTOR CONFERENCE

PRIVATE MEDICAL CONFERENCE
L9 PAYLOAD STATION A/G (two) - OFF
Perform via A/G2

03:00

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

15:00

98

04:00

ROBO: 1.420 SSRMS CUPOLA RELOCATE
Steps 1-4
EXERCISE CONSTRAINT

ROBO: 1.420 SSRMS CUPOLA RELOCATE
Step 5 EXERCISE CONSTRAINT

ROBO: 1.420 SSRMS CUPOLA RELOCATE
Step 6 EXERCISE CONSTRAINT

ROBO: 1.420 SSRMS CUPOLA RELOCATE
Step 7 EXERCISE CONSTRAINT

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

ROBO: 1.420 SSRMS CUPOLA RELOCATE
Steps 1-4
EXERCISE CONSTRAINT

S&M: 1.539 CBM CUPOLA RELOCATE:
NODE 3 PORT TO NODE 3 NADIR Step 3
ROBO:1.420 SSRMS CUP RELOC Step 5 EXER CONST

S&M: 1.539 CBM CUPOLA RELOCATE:
NODE 3 PORT TO NODE 3 NADIR
Steps 4.1-4.4 EXERCISE CONSTRAINT

ROBO:1.420 SSRMS CUP RELOC Step 6 EXER CONST

S&M: 1.539 CBM CUPOLA RELOCATE:
NODE 3 PORT TO NODE 3 NADIR
Steps 4.5-4.8
EXERCISE CONSTRAINT

ROBO: 1.420 SSRMS CUPOLA RELOCATE
Step 7 EXERCISE CONSTRAINT
CREW CHOICE DOWNLINK (CUE CARD, PLAYBACK)
KU TDRW: 01:12-01:47

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

NO EXERCISE FROM UNBERTH UNTIL A-BOLTS COMPLETE

STS-130 FD07

GMT Date 02/10 (041) | W | TDRS E | Z | D/N | ORB | MET Day 006 | STS ATI

MS2 ROBINSON | MS3 PATRICK | MS4 BEHNKEN | Notes

12:00 | 13:00 | 14:00 | 15:00

96 | 97 | 98

00:00 | 01:00 | 02:00 | 03:00 | 04:00

BIAS-XLV-ZVV

MS2 ROBINSON

MDDK STATUS CK(ASSY OPS,P/L)GLACIER & CGBA
S&M:1.403 CBCS INSTL/RMVL-GEN Steps 12.1-12.2
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS3 PATRICK

EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS (CC)
EVA SYSTEMS: 1.240 POST EVA
With H2O Recharge
Ref. STS-130 Consumables Tracking CC(EVA)
Ref. STS-130 Battery Recharge Plan (EVA)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

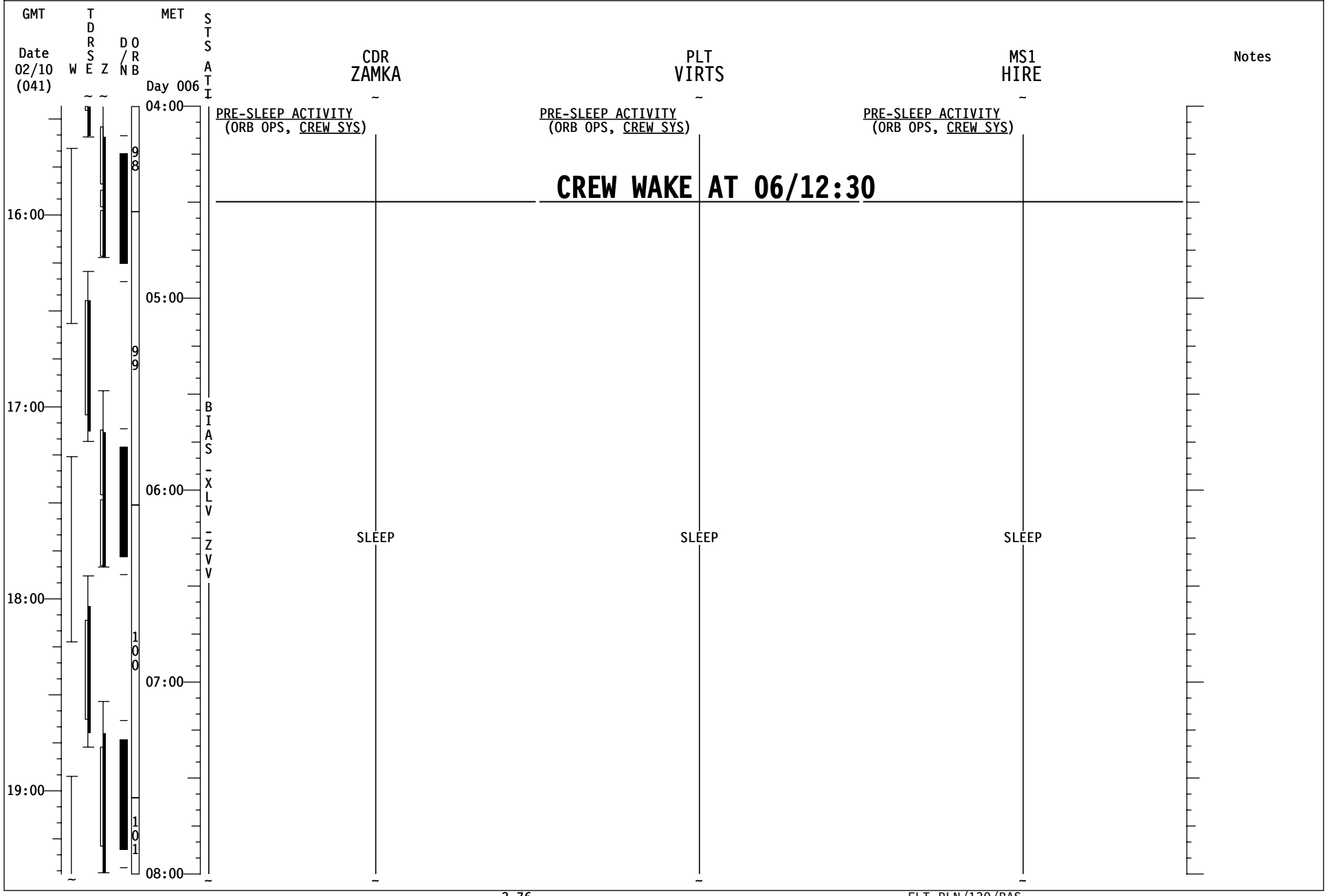
MS4 BEHNKEN

EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS (CC)
EVA SYSTEMS: 1.240 POST EVA
With H2O Recharge
Ref. STS-130 Consumables Tracking CC(EVA)
Ref. STS-130 Battery Recharge Plan (EVA)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

Notes

NO EXERCISE FROM UNBERTH UNTIL A-BOLTS COMPLETE

STS-130 FD07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PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
CREW WAKE AT 06/12:30
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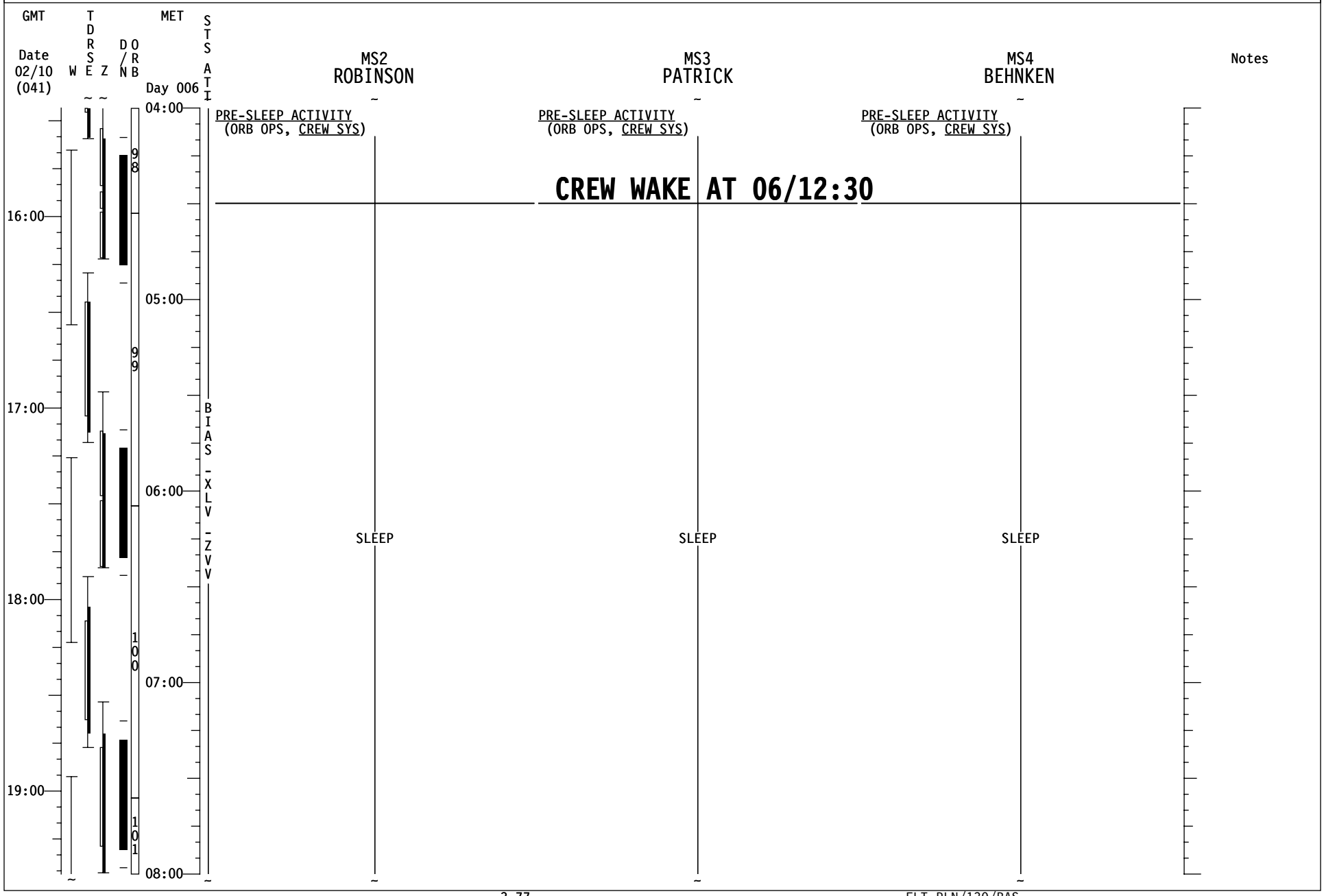
SLEEP

STS-130 FD07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MS2
ROBINSON
MS3
PATRICK
MS4
BEHNKEN
Notes
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
CREW WAKE AT 06/12:30
16:00
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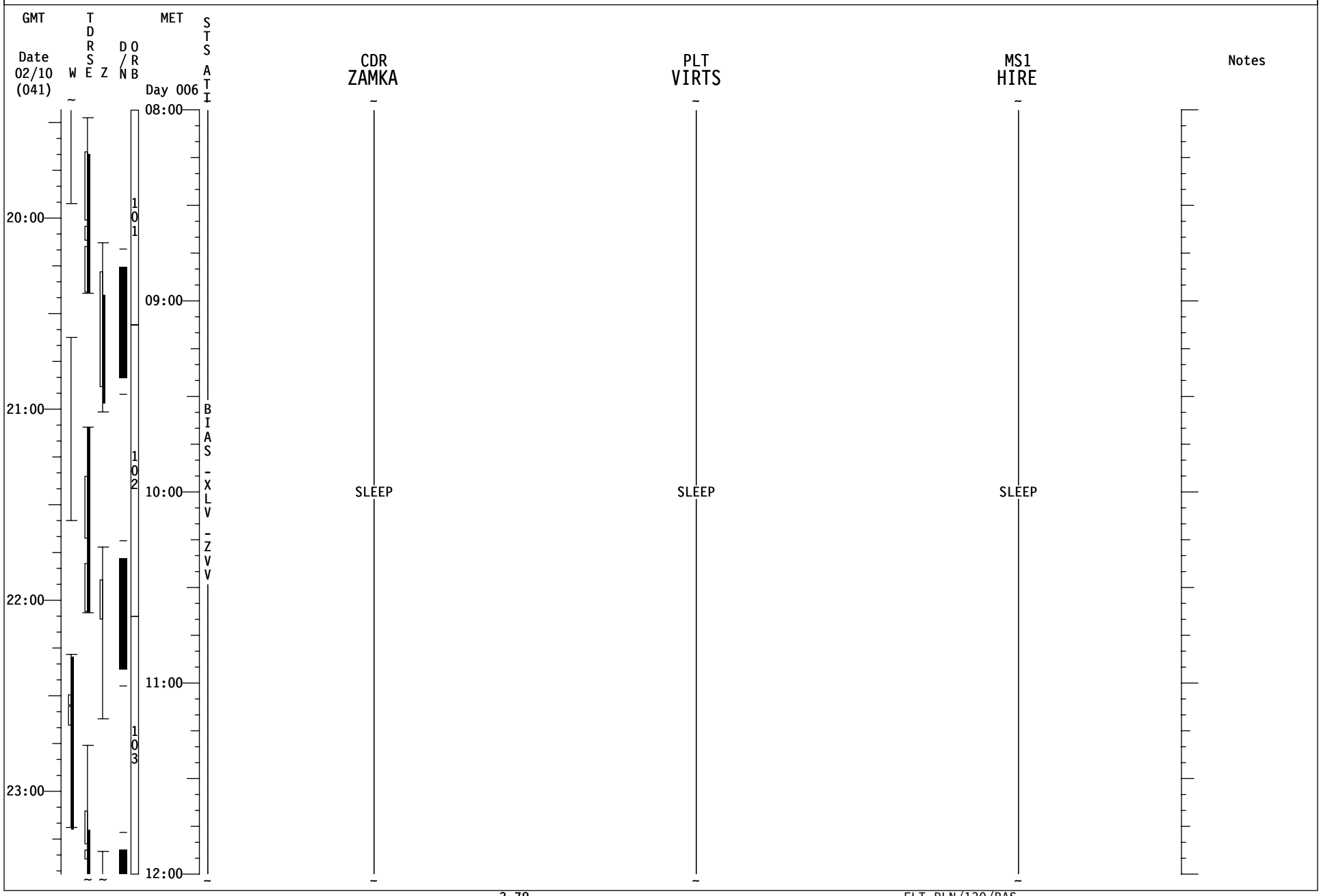
STS-130 FD07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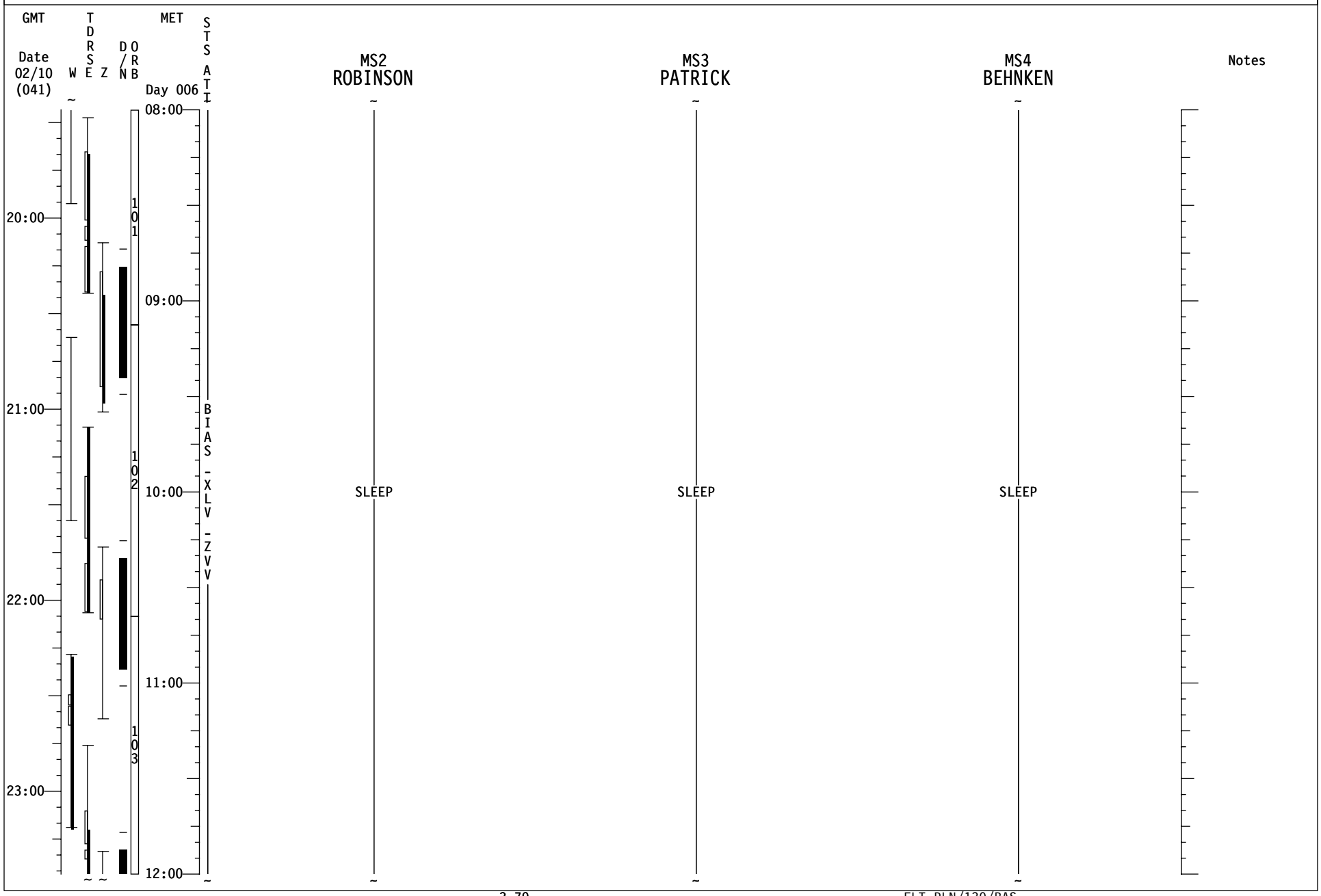
STS-130 FD07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ROBINSON
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PATRICK
MS4
BEHNKEN
Notes
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101
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BIAS-XLV-ZVV
SLEEP
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STS-130 FD08

GMT Date 02/10 (041) | W | TDRS E | Z | D/N | ORB | MET Day 006 | STS ATI

CDR ZAMKA | PLT VIRTS | MS1 HIRE | Notes

12:00 — 13:00 — 14:00 — 15:00 — 16:00 — 00:00 — 01:00 — 02:00 — 03:00

ORB: 104 — 105 — 106

STS ATI: BIAS-XLV-ZVV

CDR ZAMKA

SLEEP

SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)
N2 REPRESS INIT A
SHUTTLE/ISS H2O CONTAINER FILL (HC)
(ORB OPS, ECLS) Init Fill #5
Ref. MSG XXX

PLT VIRTS

SLEEP

SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

1.105 CBM CENTER DISC COVER REMOVAL
(ASSY OPS, ACT&C/O)

S&M: 1.101 CBM CONTROL PANEL ASSEMBLY
REMOVAL - GEN

MS1 HIRE

SLEEP

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

S&M: 1.403 CBCS INSTALL/REMOVAL-GEN
Steps 12-14

1.105 CBM CENTER DISC COVER REMOVAL
(ASSY OPS, ACT&C/O)

S&M: 1.101 CBM CONTROL PANEL ASSEMBLY
REMOVAL - GEN

FD08 EZ ACTIVITIES:
√OCAC FILTER
TEPC (STATUS CHECK)
(ORB OPS, CREW SYS)
HARD REBOOT ALL PGSCs EXCEPT:
STS-6(WLES),STS-7(RPOP2),&
OCA ROUTER.

A N2 REPRESS USING P/L N2 VLVS
(ORB OPS, ECLS)Steps 1-5;
on MCC go, perform step 6

STS-130 FD08

GMT Date 02/10 (041) | W | TDRS E | Z | D/N | ORB | MET Day 006 | STS ATI

MS2 ROBINSON | MS3 PATRICK | MS4 BEHNKEN | Notes

12:00 — 13:00 — 14:00 — 15:00 — 16:00

00:00 — 01:00 — 02:00 — 03:00

104 — 105 — 106

BIAS-XLV-ZVV

MS2 ROBINSON

SLEEP

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MDDK STATUS CK(ASSY OPS,P/L)GLACIER & CGBA

X.XXX CRAB REMOVAL (ASSY OPS, ACT&C/O)

X.XXX EDV REMOVAL (ASSY OPS, ACT&C/O)

S&M: X.XXX WRS DEMATES

MS3 PATRICK

SLEEP

EVA CREW: TAKE 1 ASPIRIN (325mg)

SLEEP LOGBOOK (ORB OPS, SDBI)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MS4 BEHNKEN

SLEEP

EVA CREW: TAKE 1 ASPIRIN (325mg)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

EXERCISE

STS-130 FD08

GMT Date 02/11 (042) | W | TDRS E | Z | D/N | ORB | MET Day 006 | STS ATI

CDR ZAMKA | PLT VIRTS | MS1 HIRE | Notes

16:00

S&M: 1.101 CBM CONTROL PANEL ASSEMBLY REMOVAL - GEN

EXERCISE

X.XXX REMOVE CUPOLA BLANKET (ASSY OPS, ACT&C/O)

17:00

SHUTTLE/ISS H2O CONTAINER FILL (HC) (ORB OPS, ECLS) Perform FILL TERMINATION

CWC TRANSFER Transfer CWC to ISS

SHUTTLE/ISS H2O CONTAINER FILL (HC) (ORB OPS, ECLS) Init Fill #6 Ref. MSG XXX

S&M: 1.403 CBCS INSTALL/REMOVAL-GEN Steps X-X

1.150 WRS RACK TRANSFER (ASSY OPS, ACT&C/O)

X.XXX VESTIBLE JUMPER INSTALL (ASSY OPS, ACT&C/O)

18:00

SHUTTLE/ISS H2O CONTAINER FILL (HC) (ORB OPS, ECLS) Perform FILL TERMINATION

19:00

CWC TRANSFER Transfer CWC to ISS

N2 REPRESS TERM (On MCC GO) [B]

[B] N2 REPRESS USING P/L N2 VLVS (ORB OPS, ECLS) on MCC go, perform steps 7-12

20:00

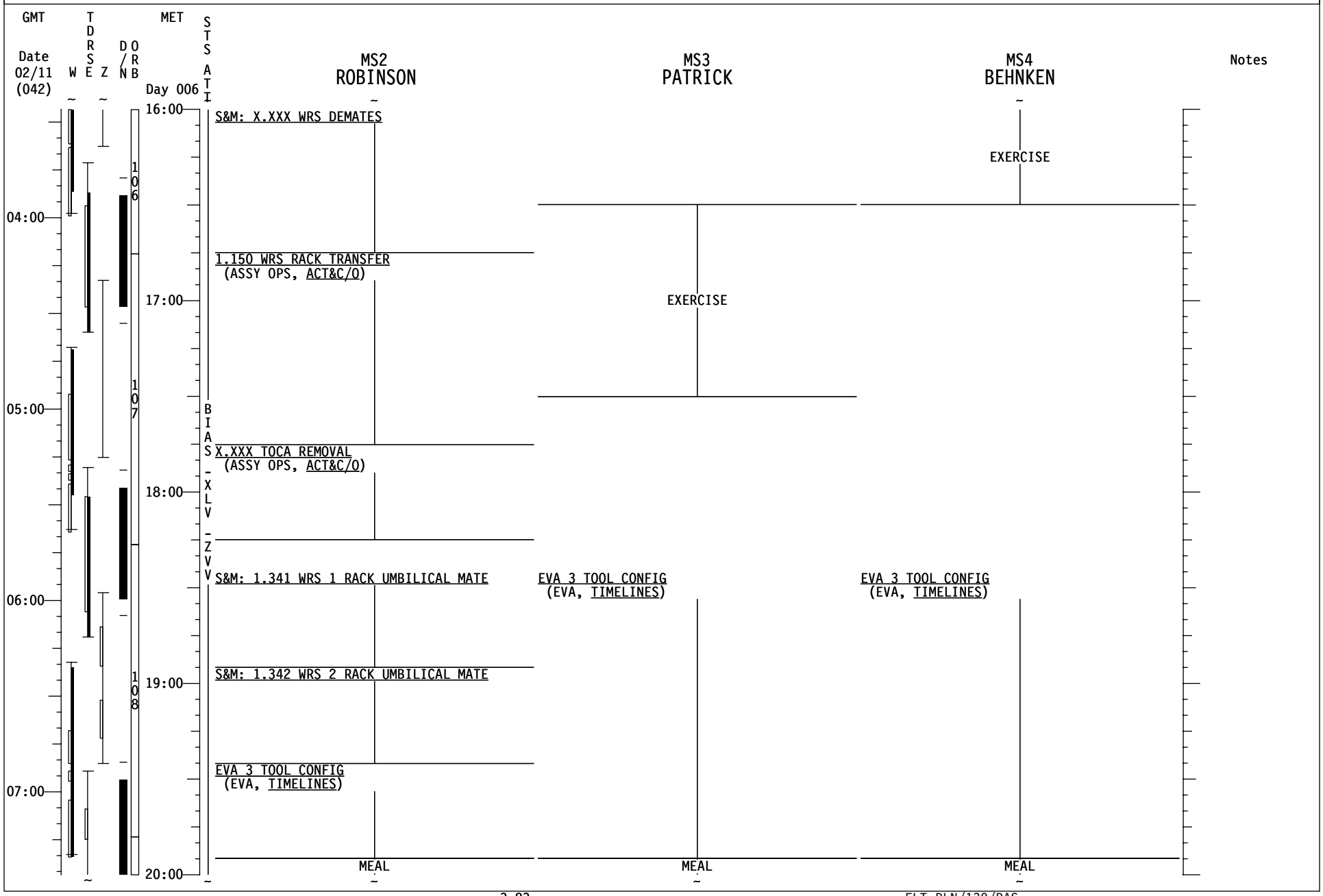
MEAL

04:00 | 05:00 | 06:00 | 07:00

106 | 107 | 108

BIAS-XLV-ZVV

STS-130 FD08


GMT
Date 02/11 (042)
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Day 006
STS ATI
MS2 ROBINSON
MS3 PATRICK
MS4 BEHNKEN
Notes
04:00
05:00
06:00
07:00
106
107
108
16:00
17:00
18:00
19:00
20:00
BIAS-XLV-ZVV
S&M: X.XXX WRS DEMATES
1.150 WRS RACK TRANSFER
(ASSY OPS, ACT&C/O)
X.XXX TOCA REMOVAL
(ASSY OPS, ACT&C/O)
S&M: 1.341 WRS 1 RACK UMBILICAL MATE
S&M: 1.342 WRS 2 RACK UMBILICAL MATE
EVA 3 TOOL CONFIG
(EVA, TIMELINES)
EXERCISE
EVA 3 TOOL CONFIG
(EVA, TIMELINES)
EXERCISE
EVA 3 TOOL CONFIG
(EVA, TIMELINES)
MEAL
MEAL
MEAL

STS-130 FD08

GMT Date 02/11 (042) | W | TDRS E | Z | D/N | ORB | MET Day 006 | STS ATI

MET	CDR ZAMKA	PLT VIRTS	MS1 HIRE	Notes
20:00	MEAL	MEAL	MEAL	
BIAS -XLV -ZVV		X.XXX MTL JUMPERS (ASSY OPS, ACT&C/O)	X.XXX MTL JUMPERS (ASSY OPS, ACT&C/O)	
08:00				
21:00	H/O ATT CONTROL CMG TA to ORB: √MCC for DAP MNVR (TRK) BIAS -XLV +YVV (SIMO DUMP) TGT=2 BV=5 P=164 Y=0 OM=193 A12/AUTO/VERN Init TRK SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Initiate Supply Dump 1.154 OGS RACK TRANSFER (ASSY OPS, ACT&C/O)			UPDATE H2O SPLY DUMP QTY TK A & B
09:00				
22:00		X.XXX ACCESS NODE 3 (ASSY OPS, ACT&C/O)	X.XXX ACCESS NODE 3 (ASSY OPS, ACT&C/O)	
DUMP				
10:00	SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Terminate Supply Dump	EXERCISE		
23:00	MNVR (TRK) TEA TGT=2 BV=5 P=164 Y=0 OM=167 A12/AUTO/VERN Init TRK When ISS Go for ATT CNTRL, DAP:FREE	X.XXX CUPOLA ELPS ENABLE (ASSY OPS, ACT&C/O)	EXERCISE	
BIAS -XLV -ZVV	FILTER CLEANING (IFM, SCHEDULED MAINTENANCE) Inspect filters and clean as necessary			
11:00		ROBO: 1.430 SSRMS CUPOLA RELEASE AND MNVR TO UNDOCK	ROBO: 1.430 SSRMS CUPOLA RELEASE AND MNVR TO UNDOCK	
00:00				

STS-130 FD08

GMT Date 02/11 (042) | W | TDRSE | Z | D/N | ORB | MET Day 006 | STS ATI

08:00 | 09:00 | 10:00 | 11:00

109 | 110 | 111

20:00 | 21:00 | 22:00 | 23:00 | 00:00

BIAS-XLV-ZVV | DUMP | BIAS-XLV-ZVV

MS2 ROBINSON

MEAL

S&M: X.XXX OGS RACK UMBILICAL DEMATE

1.154 OGS RACK TRANSFER
(ASSY OPS, ACT&C/O)

S&M: 1.325 OGS RACK UMBILICAL MATE

SPINAL STAND HEIGHT SUBJECT Ref. MSG XXX
SPINAL ELONG CREW DATA CLCT Ref. MSG XXX

MS3 PATRICK

MEAL

EVA TOOL AUDIT
Ref. EVA 3 TOOL CONFIG (EVA, TIMELINES)

P/TV09 GLACIER
(PHOTO/TV, SCENES)
Perform SETUP & OPS

SPINAL STAND HEIGHT SUBJECT Ref. MSG XXX
SPINAL ELONG CREW DATA CLCT Ref. MSG XXX

PUBLIC AFFAIRS EVENT
ISS KU AVAIL: 22:20-22:54

S&M: 1.280 WHC KABIN DISASSEMBLE/
REASSEMBLE
Steps 5-8

EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP
Fill 2 Drink Bags (1 per EVA crew member)

MS4 BEHNKEN

MEAL

EVA TOOL AUDIT
Ref. EVA 3 TOOL CONFIG (EVA, TIMELINES)

DECENT SAMPLE TRANSFER FROM MELFI TO
GLACIER
Ref. MSG XXX

EVA SYSTEMS: 1.605 BSA BATTERY RECHARGE
TERMINATE [A]

SPINAL STAND HEIGHT SUBJECT Ref. MSG XXX
SPINAL ELONG CREW DATA CLCT Ref. MSG XXX

EMU METOX & BATTERY INSTALL [A]
Ref.EVA SYS:1.515 EMU METOX/LIOH/BATT REPLACE

EVA SYSTEMS: 1.605 BSA BATTERY RECHARGE
INITIATE [A]

MDDK STATUS CK(ASSY OPS,P/L)GLACIER & CGBA

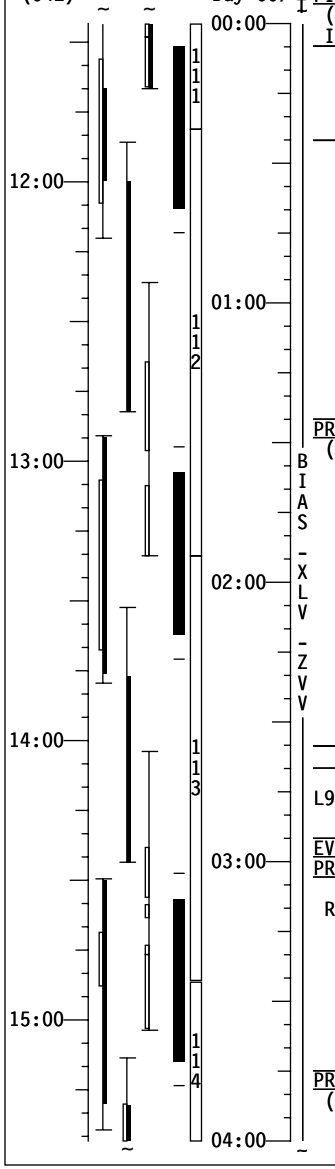
[A] Ref. STS-130 Consumables Tracking CC(EVA)
Ref. STS-130 Battery Recharge Plan (EVA)

EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP
Fill 2 Drink Bags (1 per EVA crew member)

Notes

STS-130 FD08

GMT Date 02/11 (042) | W | TDRSE | Z | D/N | ORB | MET Day 007 | STS ATI



CDR ZAMKA

FILTER CLEANING
(IFM, SCHEDULED MAINTENANCE)
Inspect filters & clean as necessary

PUBLIC AFFAIRS EVENT
ISS KU AVAIL: 23:53-00:34

EVA PROCEDURE REVIEW
Ref. EVA 3 BRIEFING CARD
(EVA, TIMELINES)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

FLIGHT DIRECTOR CONFERENCE
PRIVATE MEDICAL CONFERENCE
L9 PAYLOAD STATION A/G (two) - OFF
Perform via A/G2

EVA SYSTEMS: 1.206 10.2 PSIA CAMPOUT MASK
PREBREATHE Steps 1-16

Ref. STS-130 Consumables Tracking CC(EVA)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PLT VIRTS

ROBO: 1.430 SSRMS CUPOLA RELEASE AND MNVR TO UNDOCK

PUBLIC AFFAIRS EVENT
ISS KU AVAIL: 23:53-00:34

EVA PROCEDURE REVIEW
Ref. EVA 3 BRIEFING CARD
(EVA, TIMELINES)

TV (ILLUMINATOR OPS) (PHOTO/TV, CC)
ILLUMINATORS ON - ALL

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS1 HIRE

ROBO: 1.430 SSRMS CUPOLA RELEASE AND MNVR TO UNDOCK

SPINAL STAND HEIGHT SUBJECT Ref. MSG XXX
SPINAL ELONG CREW DATA CLCT Ref. MSG XXX

EVA PROCEDURE REVIEW
Ref. EVA 3 BRIEFING CARD
(EVA, TIMELINES)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

CREW CHOICE DOWNLINK
(CUE CARD, PLAYBACK)
KU TDRW: 01:39-02:14

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

Notes

STS-130 FD08

GMT Date 02/11 (042) | W | T D R S E | Z | D/N | O R B | MET Day 007 | S T S A T I

MS2 ROBINSON | MS3 PATRICK | MS4 BEHNKEN | Notes

00:00 — MDDK STATUS CK(ASSY OPS,P/L)GLACIER & CGBA

PUBLIC AFFAIRS EVENT
ISS KU AVAIL: 23:53-00:34

12:00

EVA PROCEDURE REVIEW
Ref. EVA 3 BRIEFING CARD
(EVA, TIMELINES)

01:00

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

13:00

EXERCISE

02:00

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

14:00

EVA SYSTEMS: 1.206 10.2 PSIA CAMPOUT MASK PREBREATHE

Ref. STS-130 Consumables Tracking CC(EVA)

03:00

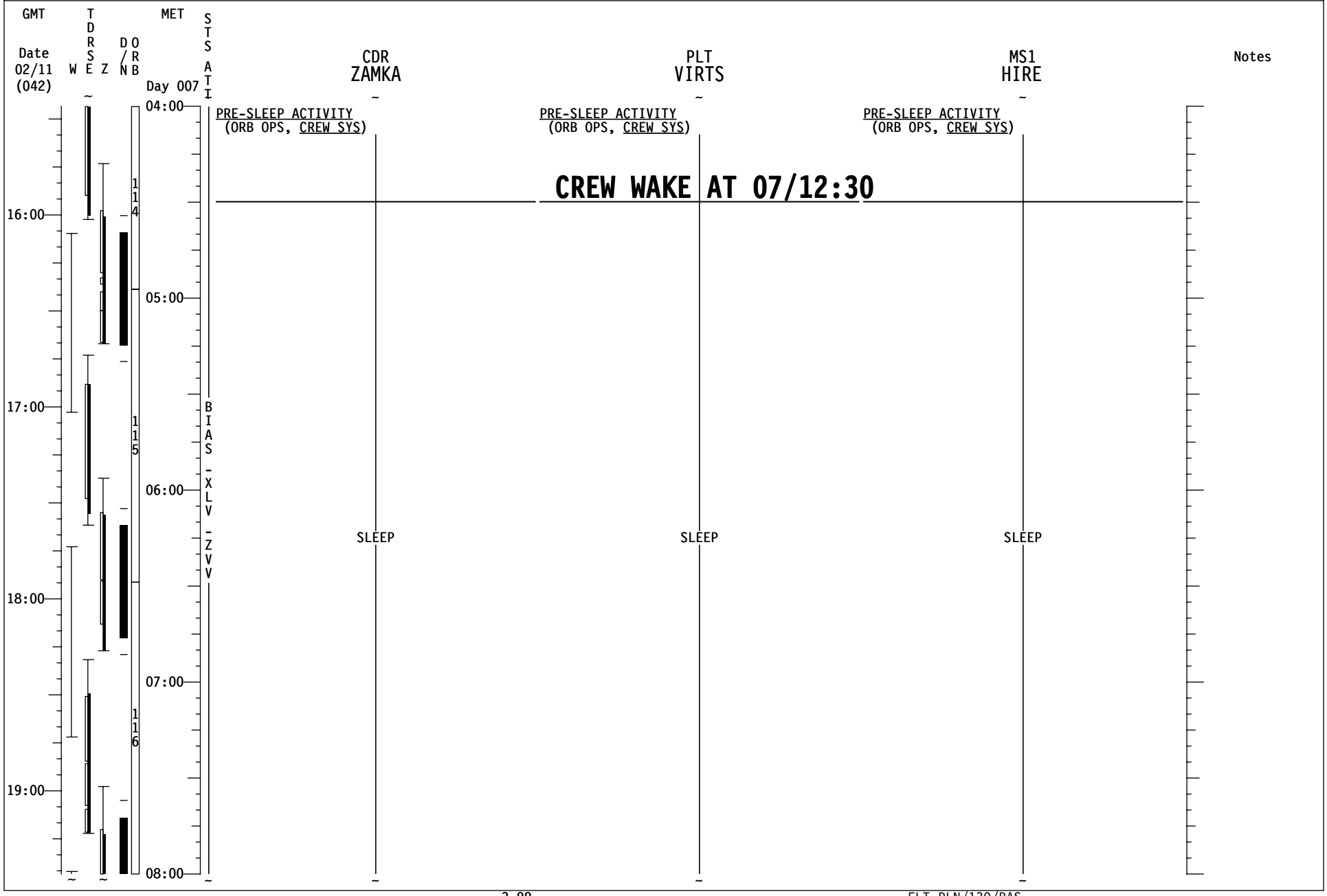
15:00

04:00

111 112 113 114

BIAS-XLV-ZVV

STS-130 FD08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MS1
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Notes
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
CREW WAKE AT 07/12:30
114
115
116
BIAS-XLV-ZVV
SLEEP
SLEEP
SLEEP
04:00
05:00
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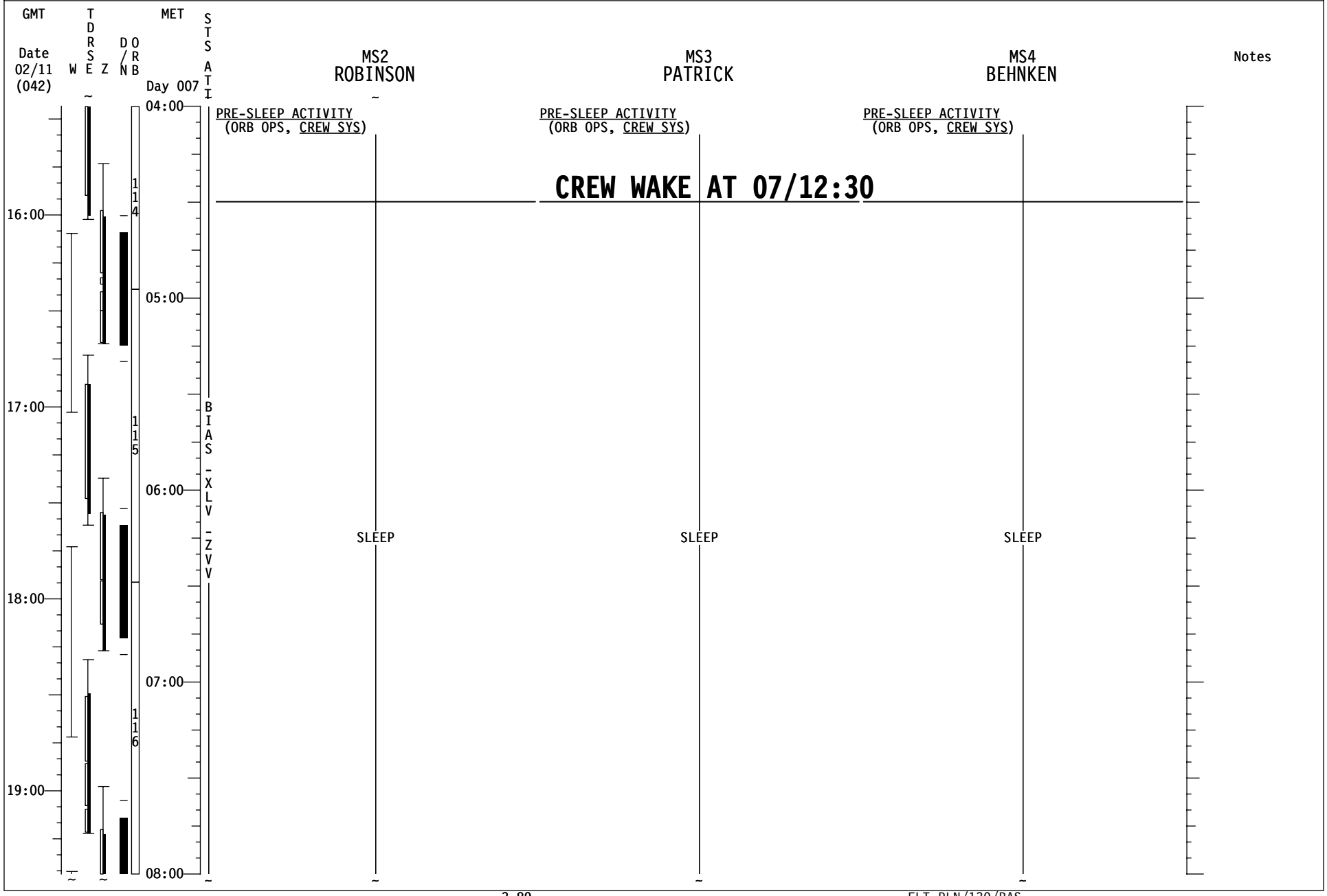
17:00
18:00
19:00

STS-130 FD08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MS2
ROBINSON
MS3
PATRICK
MS4
BEHNKEN
Notes
04:00
05:00
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17:00
18:00
19:00
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
CREW WAKE AT 07/12:30
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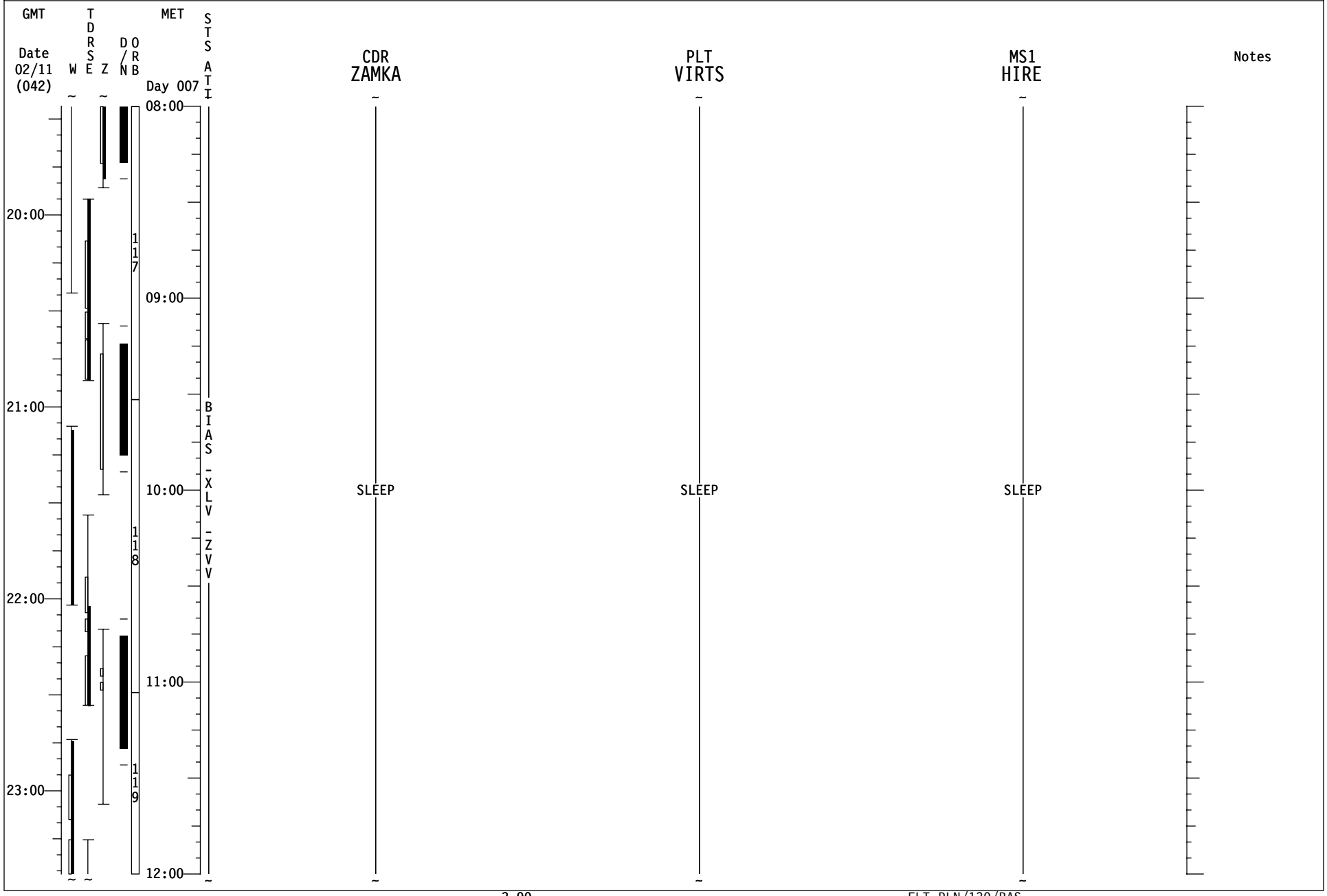
SLEEP
SLEEP

STS-130 FD08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PLT
VIRTS
MS1
HIRE
Notes
20:00
21:00
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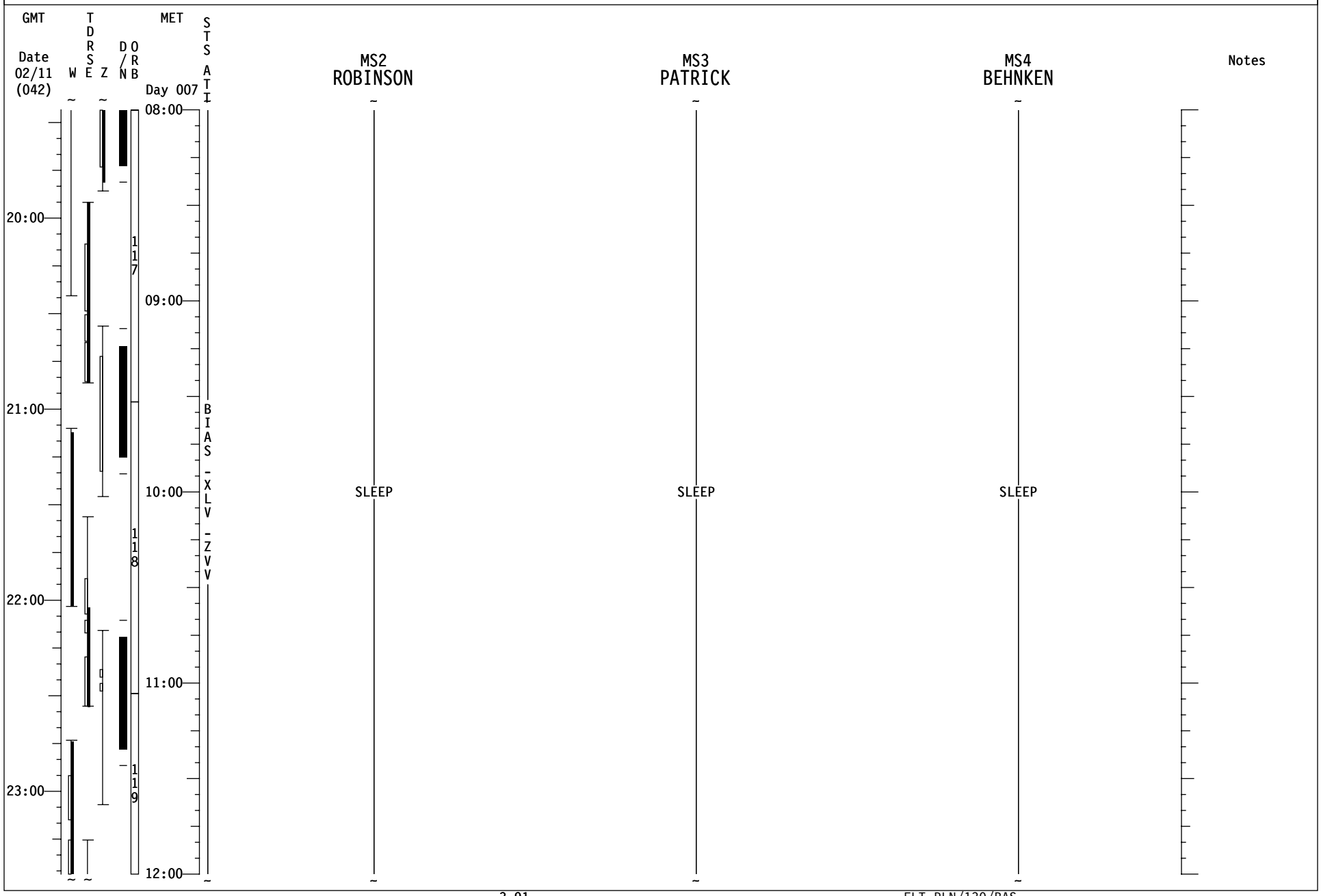
117
118
119
BIAS-XLV-ZVV
SLEEP
SLEEP
SLEEP

STS-130 FD08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117
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MS2
ROBINSON
SLEEP
MS3
PATRICK
SLEEP
MS4
BEHNKEN
SLEEP
Notes

STS-130 FD09

GMT Date 02/11 (042) | W | TDRS E | Z | D/N | ORB | MET Day 007 | STS ATI

CDR ZAMKA | PLT VIRTS | MS1 HIRE | Notes

12:00 — 13:00 — 14:00 — 15:00 — 16:00 — 00:00 — 01:00 — 02:00 — 03:00

119 — 120 — 121 — 122

SLEEP (CDR ZAMKA)

SLEEP (PLT VIRTS)

SLEEP (MS1 HIRE)

SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

FD09 EZ ACTIVITIES:
√OCAC FILTER
TEPC (STATUS CHECK)
(ORB OPS, CREW SYS)
HARD REBOOT ALL PGSCs EXCEPT:
STS-6(WLES),STS-5(RPOP2),&
OCA ROUTER.

BIAS_XLV_ZVV

PRIVATE MEDICAL CONFERENCE
L9 PAYLOAD STATION A/G (two) - OFF
Perform via A/G2

EVA SYSTEMS: 1.211 HYGIENE BREAK

EVA SYSTEMS: 1.216 10.2 PSIA CAMPOUT EVA PREP

TV (ILLUMINATOR OPS) (PHOTO/TV, CC)
ILLUMINATORS OFF - ALL

IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)

L17 Check MCIU filter screen

WCS COMPACTOR OPS (DUAL-VANE)
(ORB OPS, CUE CARD)

TRANSFER UPDATE
Ref. Transfer List & MSG XXX

EVA SYSTEMS: 1.220 EMU PURGE

EVA 3 INHIBIT PAD
(EVA, TIMELINES)

EXERCISE

STS-130 FD09

GMT Date 02/11 (042) | W | TDRSE | Z | D/N | ORB | MET Day 007 | STS ATI

12:00 | 13:00 | 14:00 | 15:00 | 16:00

00:00 | 01:00 | 02:00 | 03:00

119 | 120 | 121 | 122

BIAS - XLV - ZVV

MS2 ROBINSON	MS3 PATRICK	MS4 BEHNKEN	Notes
SLEEP	SLEEP	SLEEP	
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
	EVA SYSTEMS: 1.211 HYGIENE BREAK	EVA SYSTEMS: 1.211 HYGIENE BREAK	
	EVA SYSTEMS: 1.216 10.2 PSIA CAMPOUT EVA PREP	EVA SYSTEMS: 1.216 10.2 PSIA CAMPOUT EVA PREP	
MDDK STATUS CK(ASSY OPS,P/L)GLACIER & CGBA			
EVA TOOL CHECK Ref. EVA 3 TOOL CONFIG (EVA, TIMELINES)	EVA SYSTEMS: 1.220 EMU PURGE	EVA SYSTEMS: 1.220 EMU PURGE	

STS-130 FD09

GMT Date 02/12 (043) | W | T D R S E | Z | D / N | O R B | MET Day 007 | STS ATI

CDR ZAMKA | PLT VIRTS | MS1 HIRE | Notes

16:00
EVA SYSTEMS: 1.220 EMU PURGE
EVA SYSTEMS: 1.225 EMU PREBREATHE

EVA 3 INHIBIT PAD
(EVA, TIMELINES)
P/TV07 EVA
(PHOTO/TV, SCENES)
Perform SETUP

EXERCISE

1.128 NODE 3 ITCS SAMPLING ADAPTER INSTALL-MTL
(ASSY OPS, ACT&C/O)

04:00

1.162 CUPOLA ATU INSTALL
(ASSY OPS, ACT&C/O)

17:00
EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS (CC)

EVA SYSTEMS: CREWLOCK POST DEPRESS (CC)
P/TV07 EVA
(PHOTO/TV, SCENES)
Perform OPS

05:00

1.158 CUPOLA UTILITY OUTLET PANEL INSTALL
(ASSY OPS, ACT&C/O)

18:00

EXERCISE

1.168 CUPOLA CORNER PANEL INSTALL
(ASSY OPS, ACT&C/O)

06:00

MIDDECK TRANSFER
Ref. Transfer List

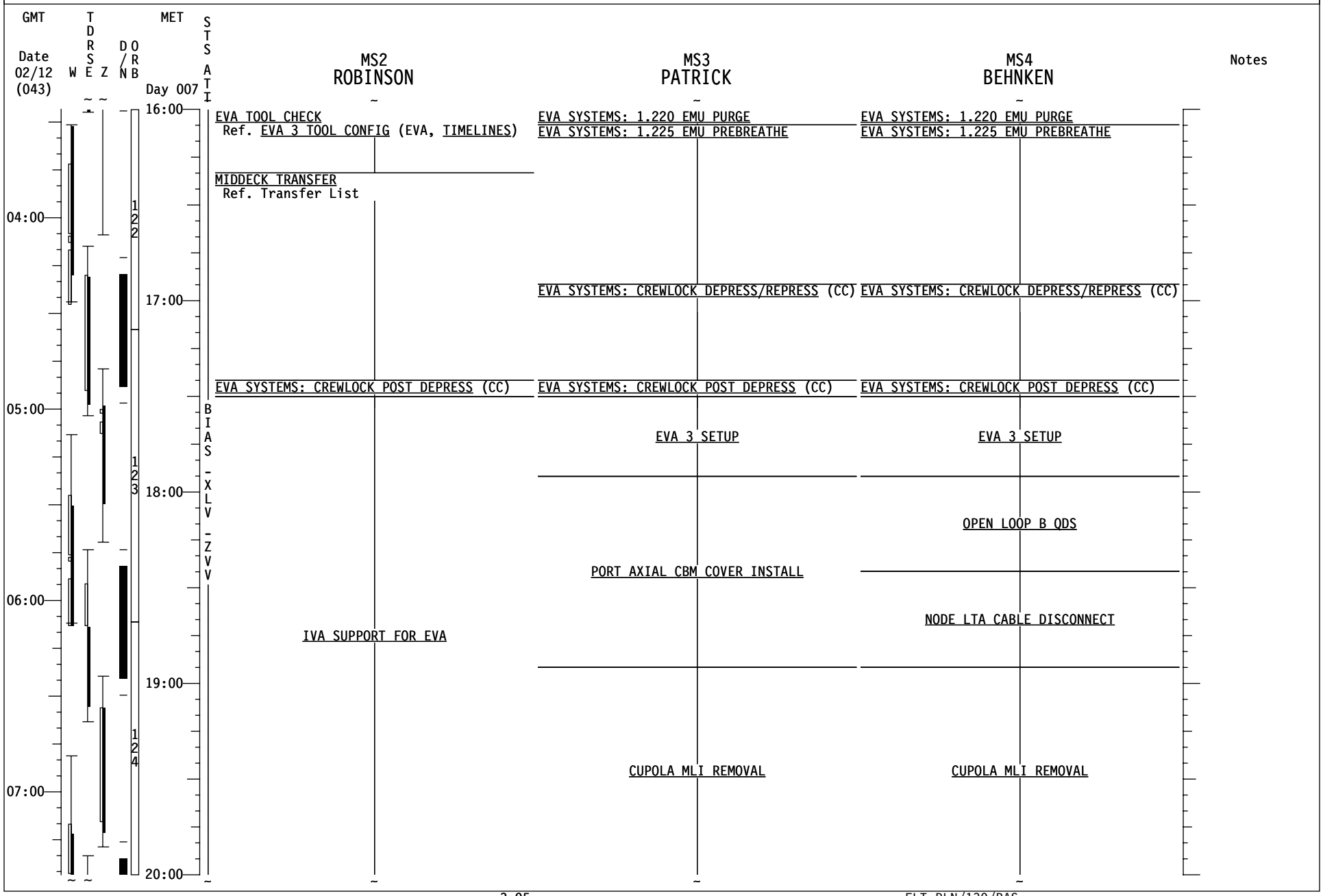
19:00

07:00

20:00

BIAS-XLV-ZVV

STS-130 FD09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STS ATI
MS2 ROBINSON
MS3 PATRICK
MS4 BEHNKEN
Notes
04:00
05:00
06:00
07:00
16:00
17:00
18:00
19:00
20:00
122
123
124
BIAS - XLV - ZVV
EVA TOOL CHECK
Ref. EVA 3 TOOL CONFIG (EVA, TIMELINES)
MIDDECK TRANSFER
Ref. Transfer List
EVA SYSTEMS: CREWLOCK POST DEPRESS (CC)
IVA SUPPORT FOR EVA
EVA SYSTEMS: 1.220 EMU PURGE
EVA SYSTEMS: 1.225 EMU PREBREATHE
EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS (CC)
EVA SYSTEMS: CREWLOCK POST DEPRESS (CC)
EVA 3 SETUP
PORT AXIAL CBM COVER INSTALL
CUPOLA MLI REMOVAL
EVA SYSTEMS: 1.220 EMU PURGE
EVA SYSTEMS: 1.225 EMU PREBREATHE
EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS (CC)
EVA SYSTEMS: CREWLOCK POST DEPRESS (CC)
EVA 3 SETUP
OPEN LOOP B QDS
NODE LTA CABLE DISCONNECT
CUPOLA MLI REMOVAL

STS-130 FD09

GMT Date 02/12 (043) | W | TDRSE | Z | D/N | ORB | MET Day 007 | STS ATI

CDR ZAMKA	PLT VIRTS	MS1 HIRE	Notes
P/TV07 EVA(PHOTO/TV, SCENES)Perform OPS	MIDDECK TRANSFER Ref. Transfer List	1.168 CUPOLA CORNER PANEL INSTALL (ASSY OPS, ACT&C/O)	
EXERCISE			
EVA SYSTEMS: 1.605 BSA BATTERY RECHARGE TERMINATE A			
SHUTTLE/ISS H2O CONTAINER FILL (HC) (ORB OPS, ECLS) Init Fill #7 Ref. MSG XXX			
MEAL	MEAL	MEAL	
SHUTTLE/ISS H2O CONTAINER FILL (HC) (ORB OPS, ECLS) Perform FILL TERMINATION	MIDDECK TRANSFER Ref. Transfer List	X.XXX FSS SETUP (ASSY OPS, ACT&C/O)	
CWC TRANSFER Transfer CWC to ISS			
PWR FILL (ORB OPS, ECLS) Perform WATER FILL #2 Fill SN TBS (Barcode #TBS) Fill dur ~30 min			
PWR TRANSFER Transfer PWR to ISS		X.XXX FSS FILL (ASSY OPS, ACT&C/O)	
EVA SYSTEMS: PRE REPRESS (CC) EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS (CC)			

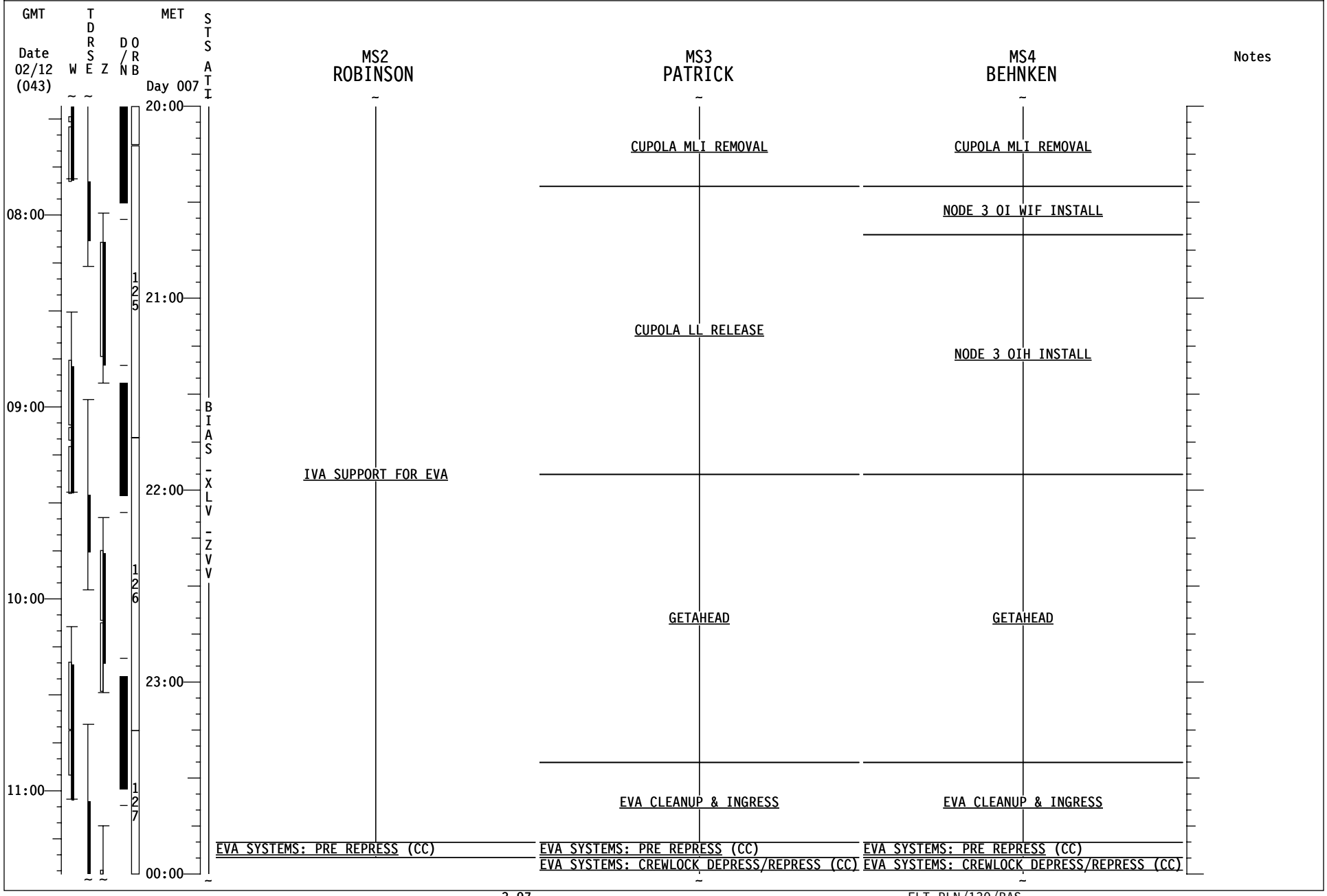
A Ref. STS-130 Consumables Tracking CC(EVA)
Ref. STS-130 Battery Recharge Plan (EVA)

Time scale: 08:00, 09:00, 10:00, 11:00; 20:00, 21:00, 22:00, 23:00, 00:00

Day 007: 125, 126, 127

BIAS - XLV - ZVV

STS-130 FD09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MS2
ROBINSON
MS3
PATRICK
MS4
BEHNKEN
Notes
08:00
09:00
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125
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B I A S - X L V - Z V V
CUPOLA MLI REMOVAL
CUPOLA MLI REMOVAL
NODE 3 OI WIF INSTALL
CUPOLA LL RELEASE
NODE 3 OIH INSTALL
IVA SUPPORT FOR EVA
GETAHEAD
GETAHEAD
EVA CLEANUP & INGRESS
EVA CLEANUP & INGRESS
EVA SYSTEMS: PRE REPRESS (CC)
EVA SYSTEMS: PRE REPRESS (CC)
EVA SYSTEMS: PRE REPRESS (CC)
EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS (CC)
EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS (CC)

STS-130 FD09

GMT Date 02/12 (043) | W | TDRSE | Z | D/N | ORB | MET Day 008 | STS ATI

CDR ZAMKA	PLT VIRTS	MS1 HIRE	Notes
EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS (CC)	MIDDECK TRANSFER Ref. Transfer List	X.XXX FSS FILL (ASSY OPS, ACT&C/O)	
EVA SYSTEMS: 1.240 POST EVA With H2O Recharge Ref. STS-130 Consumables Tracking CC(EVA) Ref. STS-130 Battery Recharge Plan (EVA)	JOINT OPS: 3.123 O2 TRANSFER SETUP (POST PREBREATHE USING SHUTTLE O2) Steps 2-5.8,Ground will perform steps 2.5 and 5.6	X.XXX NODE 3 CLOSEOUT (ASSY OPS, ACT&C/O) TRANSFER TAGUP Coordinate with transfer counterpart TRANSFER BRIEF Call down status to MCC PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	JOINT OPS:3.116 HIGH PRESS TANK O2 XFER Steps 2 & 3 PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
FLIGHT DIRECTOR CONFERENCE NETMEETING VIDEO CONFERENCING (ORB OPS, PGSC) Private Medical Conference KU TDRZ (02:08-02:23) [A] Gimbal Flip: 02:06 PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	[A] Omit steps 1,2,3 Use A/G2 for audio Inform MCC of which PGSC will be used		

BIAS-XLV-ZVV

Time scale: 12:00, 13:00, 14:00, 15:00; 00:00, 01:00, 02:00, 03:00, 04:00

127, 128, 129

CREW WAKE AT 08/12:00

STS-130 FD09

GMT Date 02/12 (043) | W | TDRSE | Z | D/N | ORB | MET Day 008 | STS ATI | MS2 ROBINSON | MS3 PATRICK | MS4 BEHNKEN | Notes

00:00

12:00

01:00

13:00

02:00

14:00

03:00

15:00

04:00

127

128

129

BIAS - XLV - ZVV

EXERCISE

MDDK STATUS CK(ASSY OPS,P/L)GLACIER & CGBA

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS (CC)

EVA SYSTEMS: 1.240 POST EVA
With H2O Recharge

Ref. STS-130 Consumables Tracking CC(EVA)
Ref. STS-130 Battery Recharge Plan (EVA)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS (CC)

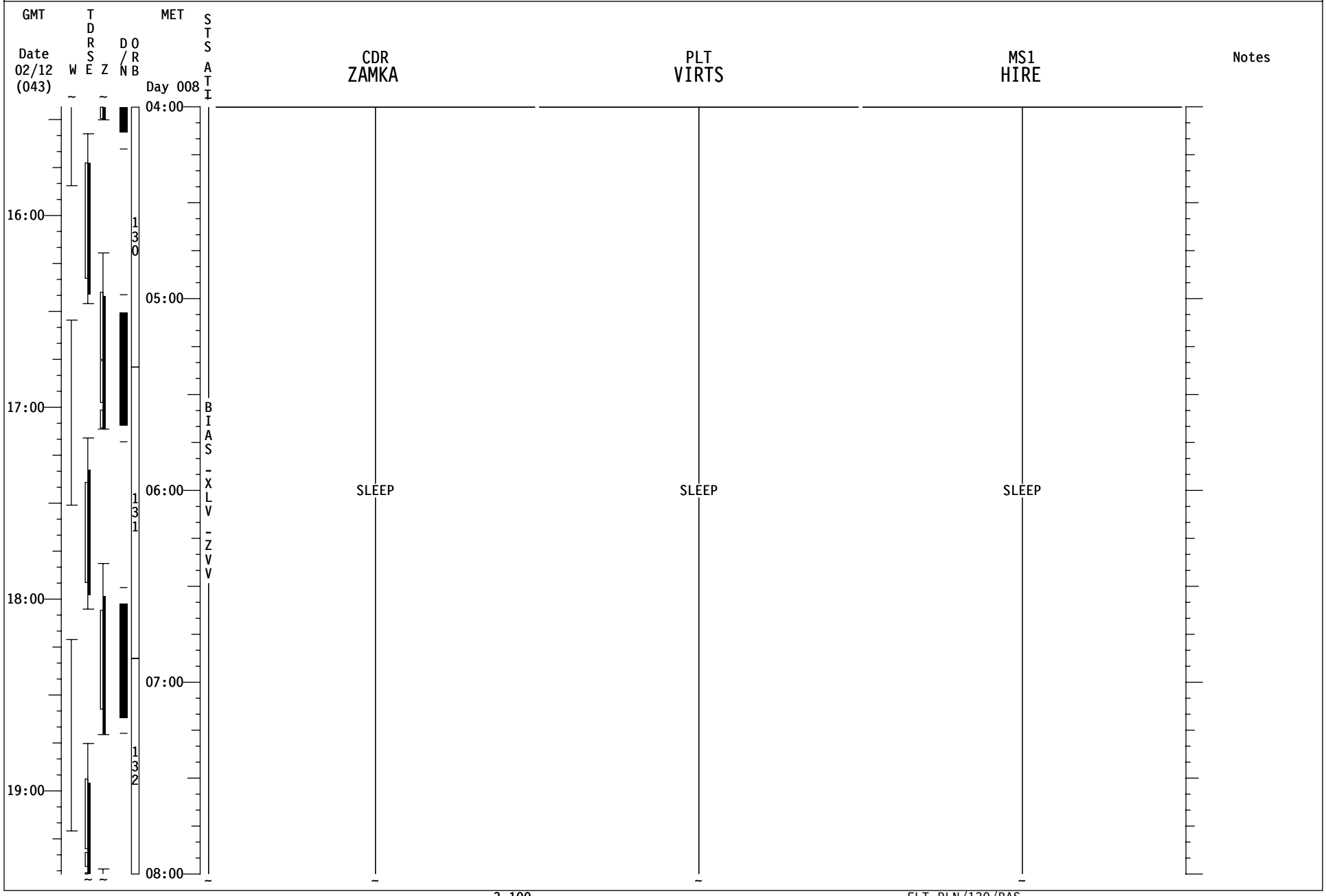
EVA SYSTEMS: 1.240 POST EVA
With H2O Recharge

Ref. STS-130 Consumables Tracking CC(EVA)
Ref. STS-130 Battery Recharge Plan (EVA)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

CREW WAKE AT 08/12:00

STS-130 FD09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STS
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CDR
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VIRTS
MS1
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Notes
04:00
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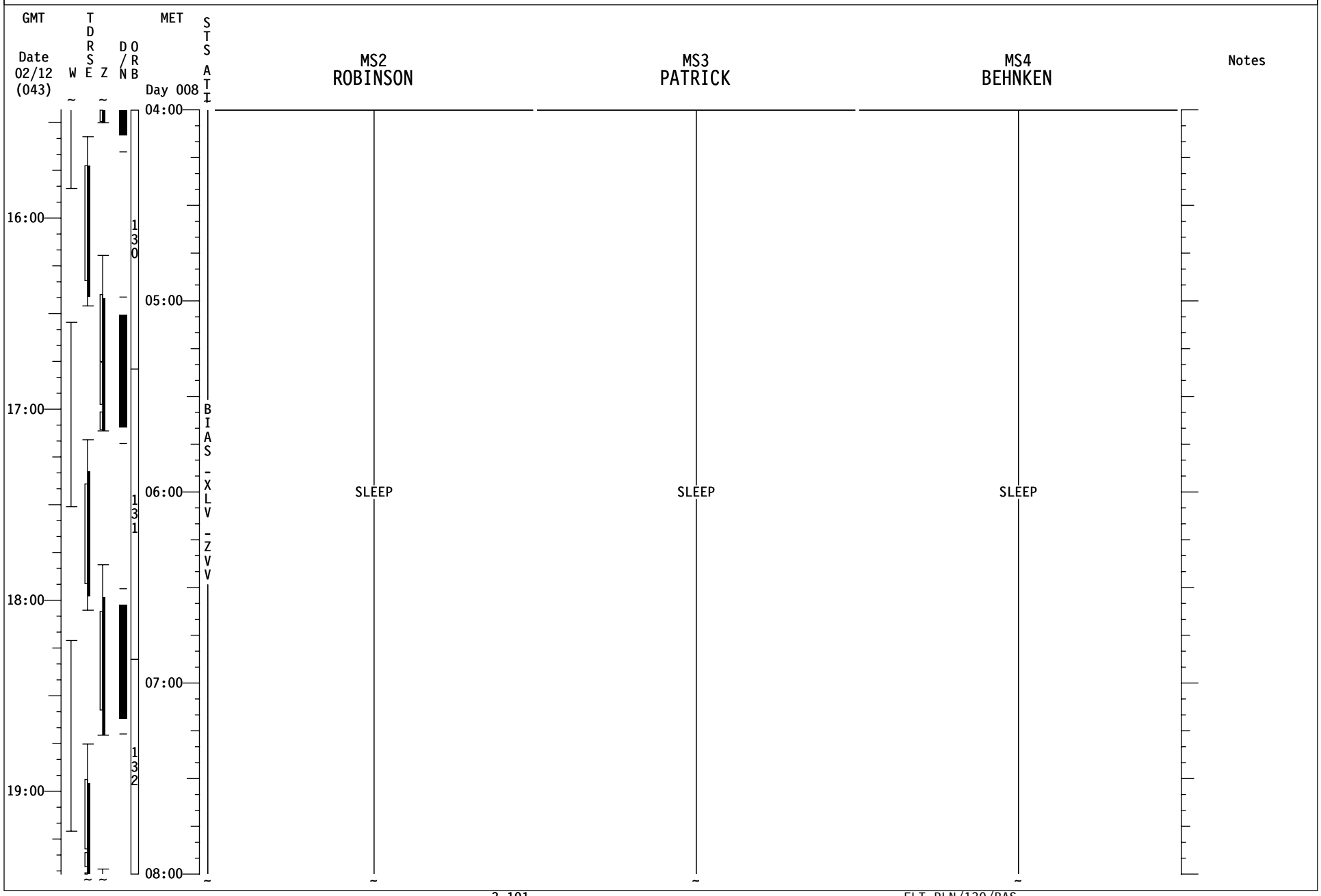
SLEEP
SLEEP

STS-130 FD09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STS
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MS2
ROBINSON
MS3
PATRICK
MS4
BEHNKEN
Notes
16:00
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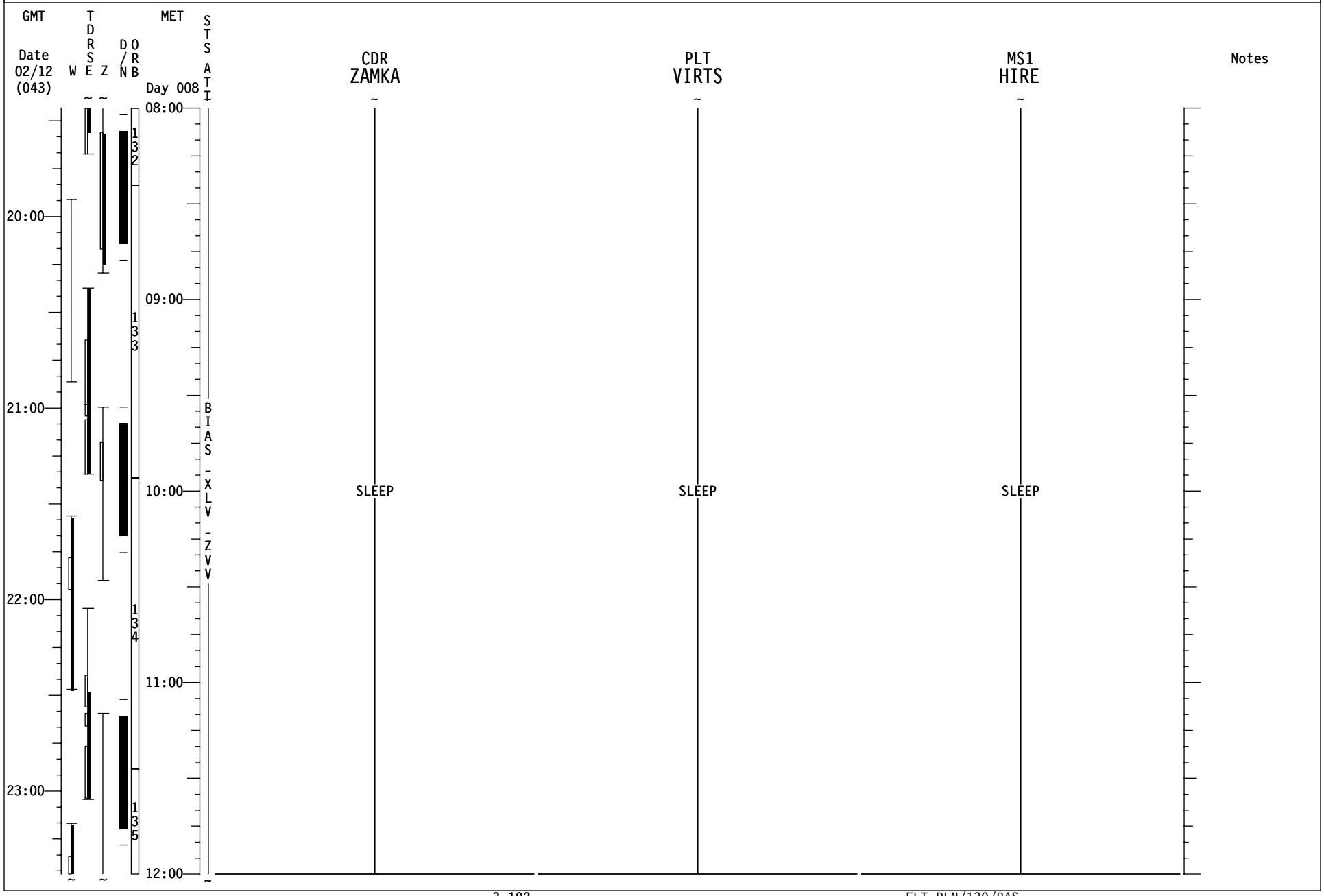
BIAS-XLV-ZVV
SLEEP
SLEEP
SLEEP

STS-130 FD09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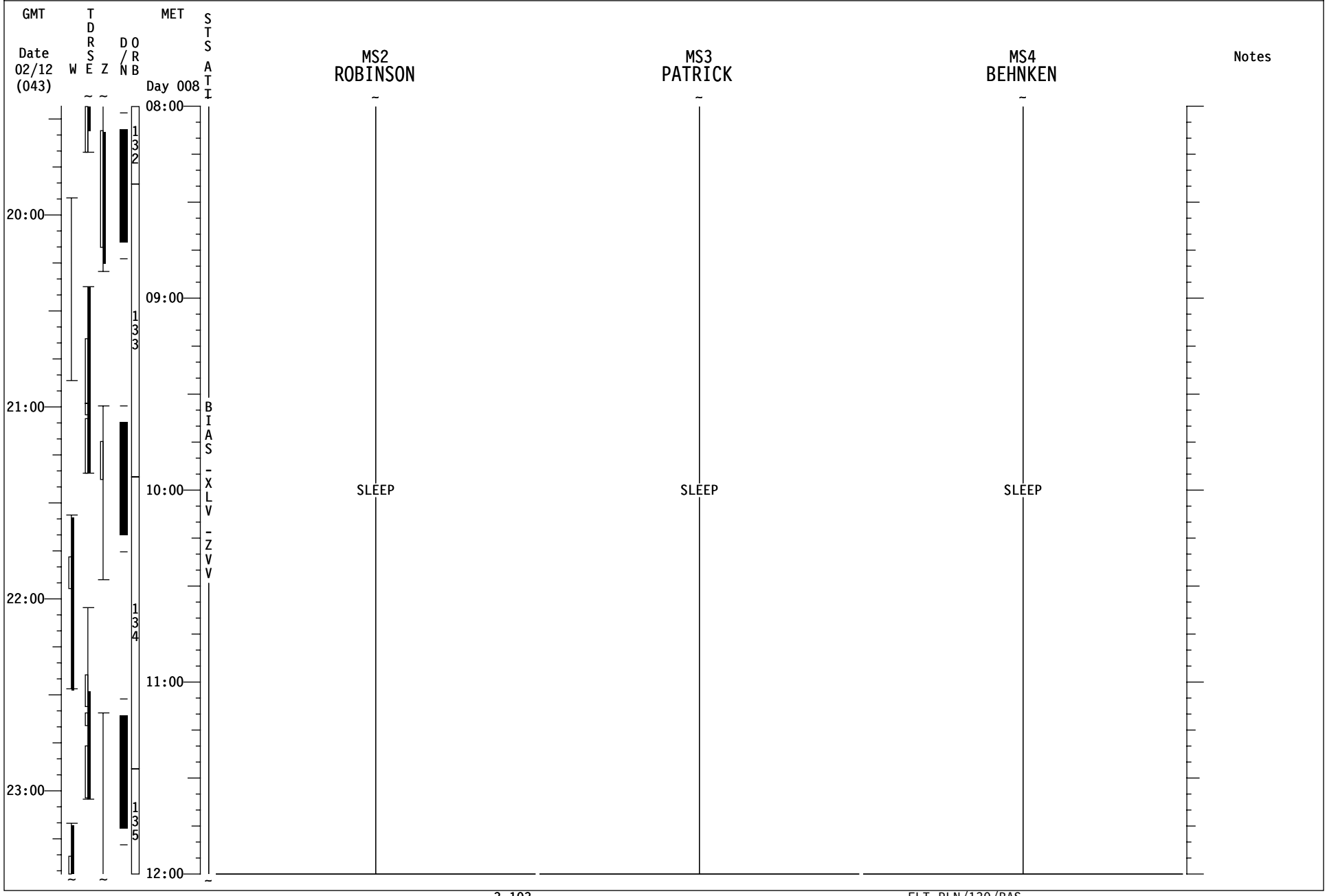
SLEEP
SLEEP
SLEEP

STS-130 FD09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MS2
ROBINSON
MS3
PATRICK
MS4
BEHNKEN
Notes
20:00
21:00
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12:00
132
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135
BIAS-XLV-ZVV
SLEEP
SLEEP
SLEEP

STS-130 FD10

GMT Date 02/12 (043) | W | TDRS E | Z | D/N | ORB | MET Day 008 | STS ATI

CDR ZAMKA | PLT VIRTS | MS1 HIRE | Notes

12:00

SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

FD10 EZ ACTIVITIES:
√OCAC FILTER
TEPC (STATUS CHECK)
(ORB OPS, CREW SYS)
HARD REBOOT ALL PGSCs EXCEPT:
STS-6(WLES),STS-5(RPOP2),&
OCA ROUTER.

00:00 — 135

13:00

01:00 — 136

BIAS-XLV-ZVV

N2 REPRESS INIT [A]
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

[A] N2 REPRESS USING P/L N2 VLVS
(ORB OPS, ECLS)Steps 1-5;
on MCC go, perform step 6

14:00

02:00

TRANSFER UPDATE
Ref. Transfer List & MSG XXX

MIDDECK TRANSFER
Ref. Transfer List

15:00 — 137

SHUTTLE/ISS H2O CONTAINER FILL (HC)
(ORB OPS, ECLS) Init Fill #8
Ref. MSG XXX

IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)
L17 Check MCIU filter screen
NOMINAL H2O CONFIG
(ORB OPS, ECLS)
FES Pri A req'd

03:00

EXERCISE

SHUTTLE CONDENSATE COLLECTION
(ORB OPS, ECLS)
Perform CHANGEOUT

EXERCISE

16:00

STS-130 FD10

GMT Date 02/12 (043) | W | T D R S E | Z | D/N | O R B | MET Day 008 | STS ATI

MS2 ROBINSON | MS3 PATRICK | MS4 BEHNKEN | Notes

12:00

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EVA CREW: TAKE 1 ASPIRIN (325mg)
SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EVA CREW: TAKE 1 ASPIRIN (325mg)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

00:00 — 135

13:00

01:00 — 136

BIAS-XLV-ZVV

14:00

02:00

MIDDECK TRANSFER
Ref. Transfer List

POST EVA RECONFIG AND TRANSFER TO SHUTTLE
(EVA, AIRLOCK CONFIG)

MDDK STATUS CK(ASSY OPS,P/L)GLACIER & CGBA
POST EVA RECONFIG AND TRANSFER TO SHUTTLE
(EVA, AIRLOCK CONFIG)

15:00 — 137

03:00

16:00

STS-130 FD10

GMT Date 02/13 (044) | W | TDRSE | Z | D/N | ORB | MET Day 008 | STS ATI

CDR ZAMKA	PLT VIRTS	MS1 HIRE	Notes
EXERCISE	EXERCISE	MIDDECK TRANSFER Ref. Transfer List	
SHUTTLE/ISS H2O CONTAINER FILL (HC) (ORB OPS, ECLS) Perform FILL TERMINATION			
CWC TRANSFER Transfer CWC to ISS			
PWR FILL (ORB OPS, ECLS) Perform WATER FILL #3 Fill SN TBS (Barcode #TBS) Fill dur ~30 min	JOINT OPS: 3.116 O2 XFER to HIGH PRESSURE TANK (Term) Step 3 JOINT OPS: 3.118 O2 TRANSFER TEARDOWN Steps 1-6.5,Ground will perform steps 1.5 and 4.5		
PWR FILL (ORB OPS, ECLS) Perform WATER FILL #4 Fill SN TBS (Barcode #TBS) Fill dur ~30 min		EXERCISE	
PWR TRANSFER Transfer 2 PWRs to ISS	JOINT OPS: 3.103 NITROGEN TRANSFER TERM	P/TV05 ISS INTERNAL OPS (PHOTO/TV, SCENES) Perform DEACTIVATION, Steps 2 and 3	
CREW CONFERENCE ISS KU AVAIL: 18:12-18:49	CREW CONFERENCE ISS KU AVAIL: 18:12-18:49	CREW CONFERENCE ISS KU AVAIL: 18:12-18:49	
CREW PHOTO	CREW PHOTO	CREW PHOTO	
MEAL	MEAL	MEAL	

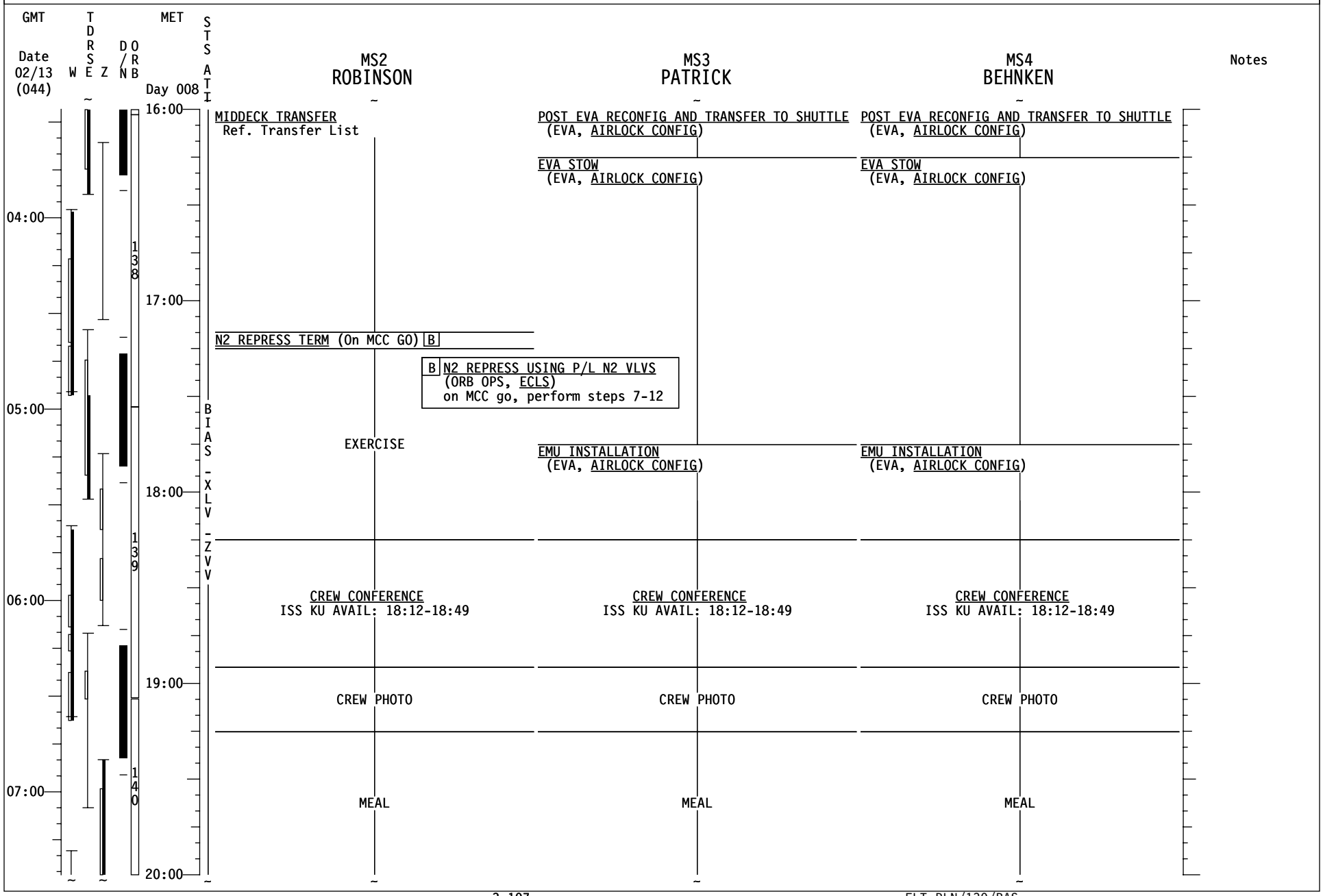
Date: 02/13 (044); Day 008

Time scale: 04:00, 05:00, 06:00, 07:00; 16:00, 17:00, 18:00, 19:00, 20:00

STS ATI: BIAS-XLV-ZVV

Notes

STS-130 FD10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STS ATI
MS2 ROBINSON
MS3 PATRICK
MS4 BEHNKEN
Notes
16:00
17:00
18:00
19:00
20:00
04:00
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06:00
07:00
138
139
140
BIAS-XLV-ZVV
MIDDECK TRANSFER
Ref. Transfer List
POST EVA RECONFIG AND TRANSFER TO SHUTTLE
(EVA, AIRLOCK CONFIG)
EVA STOW
(EVA, AIRLOCK CONFIG)
N2 REPRESS TERM (On MCC GO) B
B N2 REPRESS USING P/L N2 VLVS
(ORB OPS, ECLS)
on MCC go, perform steps 7-12
EXERCISE
EMU INSTALLATION
(EVA, AIRLOCK CONFIG)
CREW CONFERENCE
ISS KU AVAIL: 18:12-18:49
CREW PHOTO
MEAL

STS-130 FD10

GMT Date 02/13 (044) | W | TDRSE | Z | D/N | ORB | MET Day 008 | STS ATI

CDR ZAMKA	PLT VIRTS	MS1 HIRE	Notes
MEAL	MEAL	MEAL	
NETMEETING VIDEO CONFERENCING (ORB OPS, PGSC) Private Family Conference KU TDRw (20:11-20:27) A	A Omit steps 1,2,3 Use A/G2 for audio Inform MCC of which PGSC will be used		
	OFF DUTY	OFF DUTY	
	NETMEETING VIDEO CONFERENCING (ORB OPS, PGSC) Private Family Conference KU TDRZ (20:14-20:44) A		
OFF DUTY		NETMEETING VIDEO CONFERENCING(ORB OPS,PGSC) Private Family Conference KU TDRZ (20:14-20:44) A	
	OFF DUTY	OFF DUTY	
H/O ATT CONTROL CMG TA to ORB: √MCC for DAP	OBSS MNVR TO UNDOCK (PDRS, OBSS NOMINAL)	TRANSFER TAGUP Coordinate with transfer counterpart	
MNVR REBOOST TGT=2 BV=5 P=175 Y=0 OM=172 A12/AUTO/VERN Init TRK	P/TV04 INGRESS/EGRESS (PHOTO/TV, SCENES) Perform SETUP	TRANSFER BRIEF Call down status to MCC	
FAREWELL	FAREWELL	FAREWELL	
AUTO REBOOST (ORB OPS, REBOOST/DAP) CONFIG 3	JOINT OPS: 4.102 SHUTTLE/ISS DUCT REMOVAL & HATCH CLOSING Ground will perform Steps 2-3	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	

Time scale: 08:00, 09:00, 10:00, 11:00

Day 008: 20:00, 21:00, 22:00, 23:00, 00:00

STS ATI: BIAS-XLV-ZVV; REBOOST

ORB: 140, 141, 142, 143

STS-130 FD10

GMT Date 02/13 (044) | W | TDRS E | TDRS Z | D/N | ORB | MET Day 008 | STS ATI

MS2 ROBINSON | MS3 PATRICK | MS4 BEHNKEN | Notes

20:00 — MEAL (MS2, MS3, MS4)

08:00 — 140

21:00 — OFF DUTY (MS2); OFF DUTY (MS3); OFF DUTY (MS4)

BIAS-XLV

09:00 — 141

NETMEETING VIDEO CONFERENCING (ORB OPS, PGSC)
Private Family Conference
KU TDRW (21:25-22:19) [A]

22:00 — NETMEETING VIDEO CONFERENCING (ORB OPS, PGSC)
Private Family Conference
KU TDRW (21:25-22:19) [A]

[A] Omit steps 1,2,3
Use A/G2 for audio
Inform MCC of which PGSC will be used

10:00 — OFF DUTY (MS2); OFF DUTY (MS3)

142

NETMEETING VIDEO CONFERENCING(ORB OPS,PGSC)
Private Family Conference
KU TDRZ (22:47-23:08) [A]

23:00 — OBSS MNVR TO UNDOCK
(PDRS, OBSS NOMINAL)

NLP-CELLS-1 ACTIVATION
(ASSY OPS, P/L)Activate GAPs K-P

NLP-CELLS-1 ACTIVATION
(ASSY OPS, P/L)
Activate GAPs 9-16

ZVV

REBOOST

11:00 — FAREWELL (MS2, MS3, MS4)

JOINT OPS: 4.102 SHUTTLE/ISS DUCT REMOVAL & HATCH CLOSING
Ground will perform Steps 2-3

FORMALDEHYDE MONITOR KIT
(ORB OPS,CREW SYS)
Perform Steps 1-6

EXERCISE

143

00:00

STS-130 FD10

GMT Date 02/13 (044) | W | TDRSE | Z | D/N | ORB | MET Day 009 | STS ATI | CDR ZAMKA | PLT VIRTS | MS1 HIRE | Notes

CDR ZAMKA

AUTO REBOOST
(ORB OPS, REBOOST/DAP)
CONFIG 3
DAP A to A12
MNVR (TRK) TEA
TGT=2 BV=5 P=164 Y=0 OM=167
A12/AUTO/VERN Init TRK
JOINT OPS: 4.104 ODS VEST/PMA
DPRS AND HATCH LEAK CHECK

When ISS Go for ATT CNTRL, DAP:FREE
PRIVATE MEDICAL CONFERENCE
L9 PAYLOAD STATION A/G (two) - OFF
Perform via A/G2

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

√HUM SEP FOR H2O ACCUMULATION
Perform Air Quality Report

SLEEP

PLT VIRTS

JOINT OPS: 4.102 SHUTTLE/ISS DUCT REMOVAL
& HATCH CLOSING
Ground will perform Steps 2-3
NOMINAL H2O CONFIG(ORB OPS,ECLS) FES Pri A

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

RNDZ TOOLS CHECKOUT
(RNDZ, RNDZ TOOLS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

MS1 HIRE

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

RNDZ TOOLS CHECKOUT
(RNDZ, RNDZ TOOLS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

BIAS - XLV - ZVV

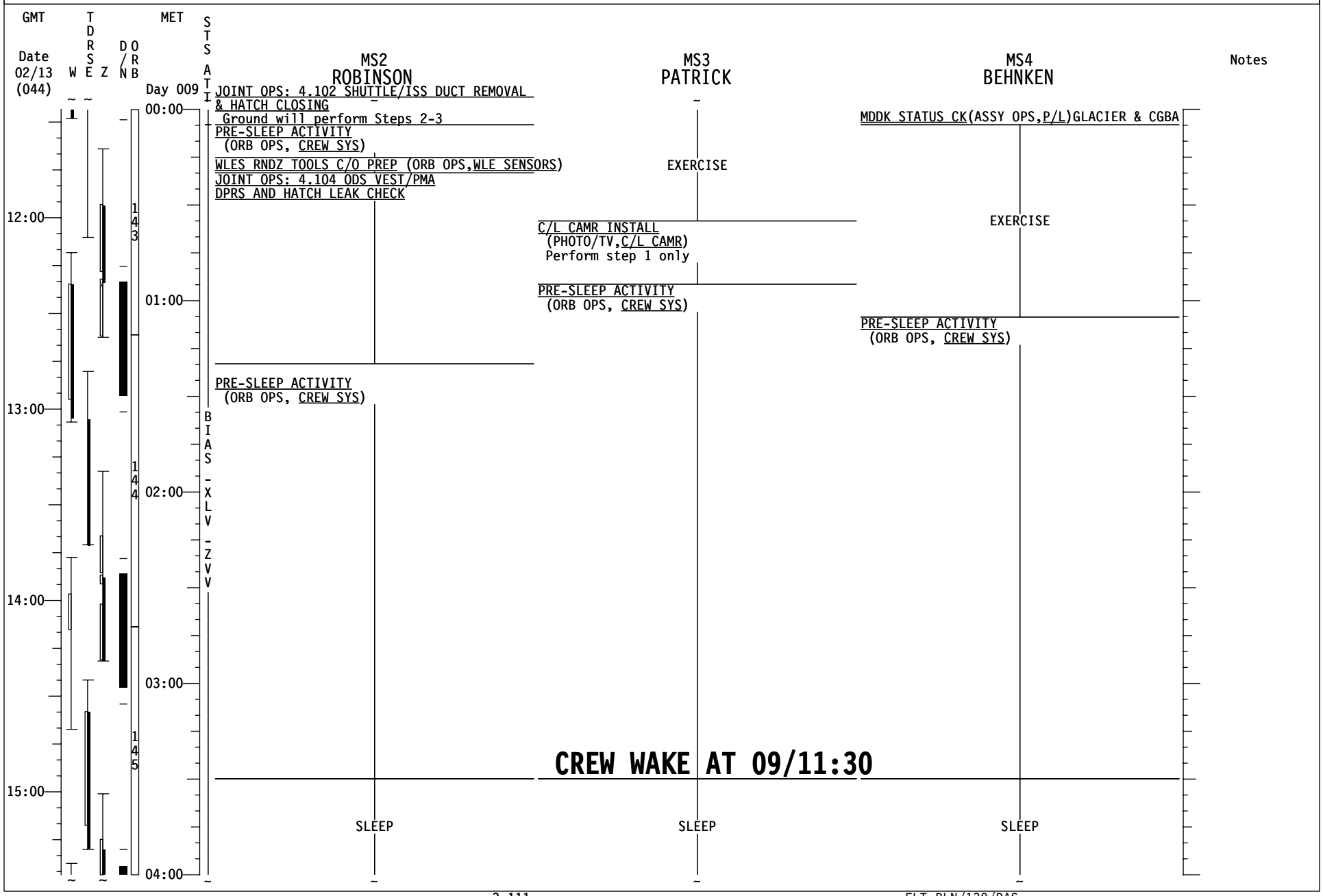
00:00 01:00 02:00 03:00 04:00

12:00 13:00 14:00 15:00

143 144 145

CREW WAKE AT 09/11:30

STS-130 FD10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STS ATI
MS2 ROBINSON
MS3 PATRICK
MS4 BEHNKEN
Notes
00:00
01:00
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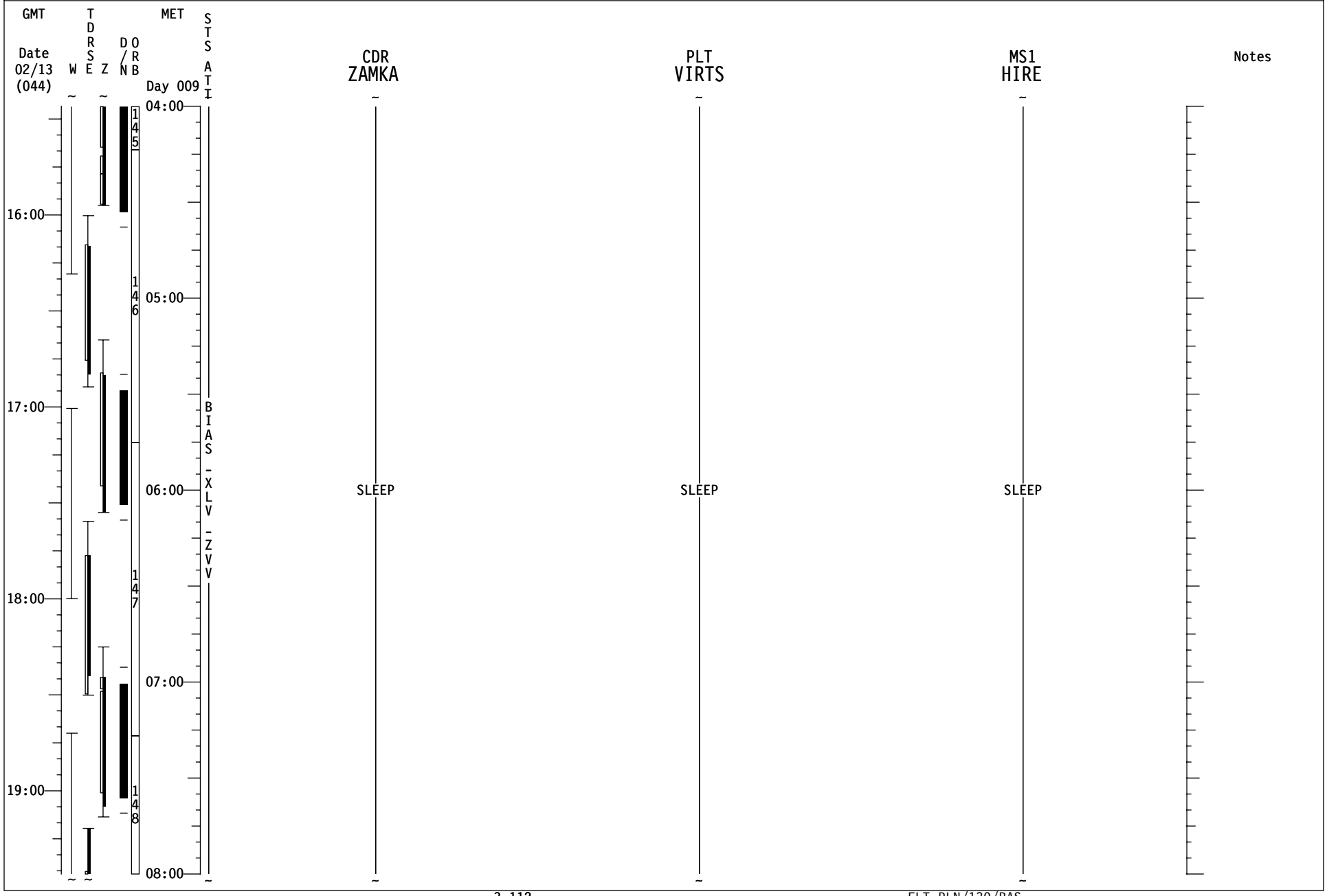
143
144
145
BIAS - XLV - ZVV
JOINT OPS: 4.102 SHUTTLE/ISS DUCT REMOVAL & HATCH CLOSING
Ground will perform Steps 2-3
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
WLES RNDZ TOOLS C/O PREP (ORB OPS,WLE SENSORS)
JOINT OPS: 4.104 ODS VEST/PMA
DPRS AND HATCH LEAK CHECK
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
SLEEP
EXERCISE
C/L CAMR INSTALL (PHOTO/TV,C/L CAMR)
Perform step 1 only
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
SLEEP
MDDK STATUS CK(ASSY OPS,P/L)GLACIER & CGBA
EXERCISE
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
SLEEP
CREW WAKE AT 09/11:30

STS-130 FD10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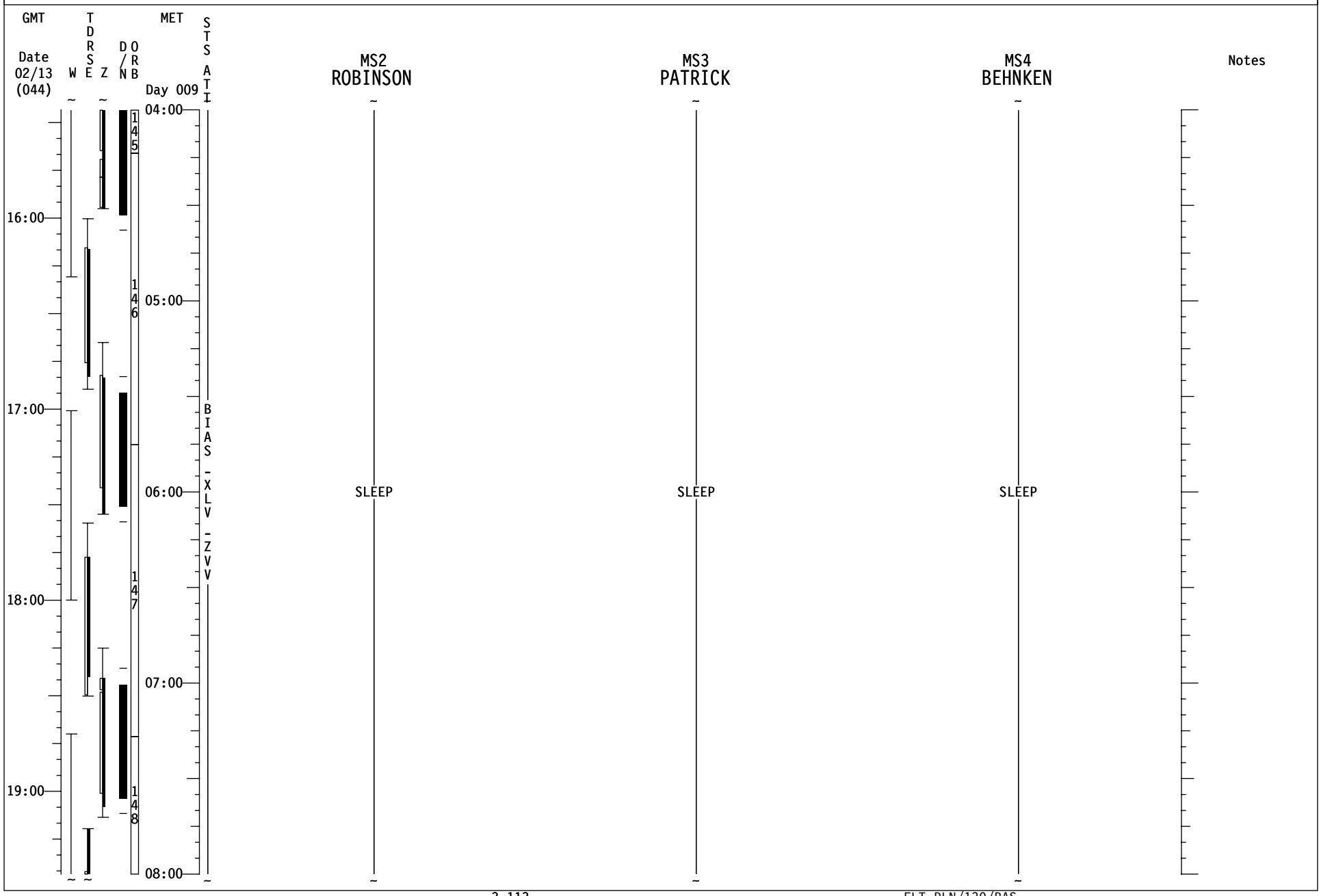
STS-130 FD10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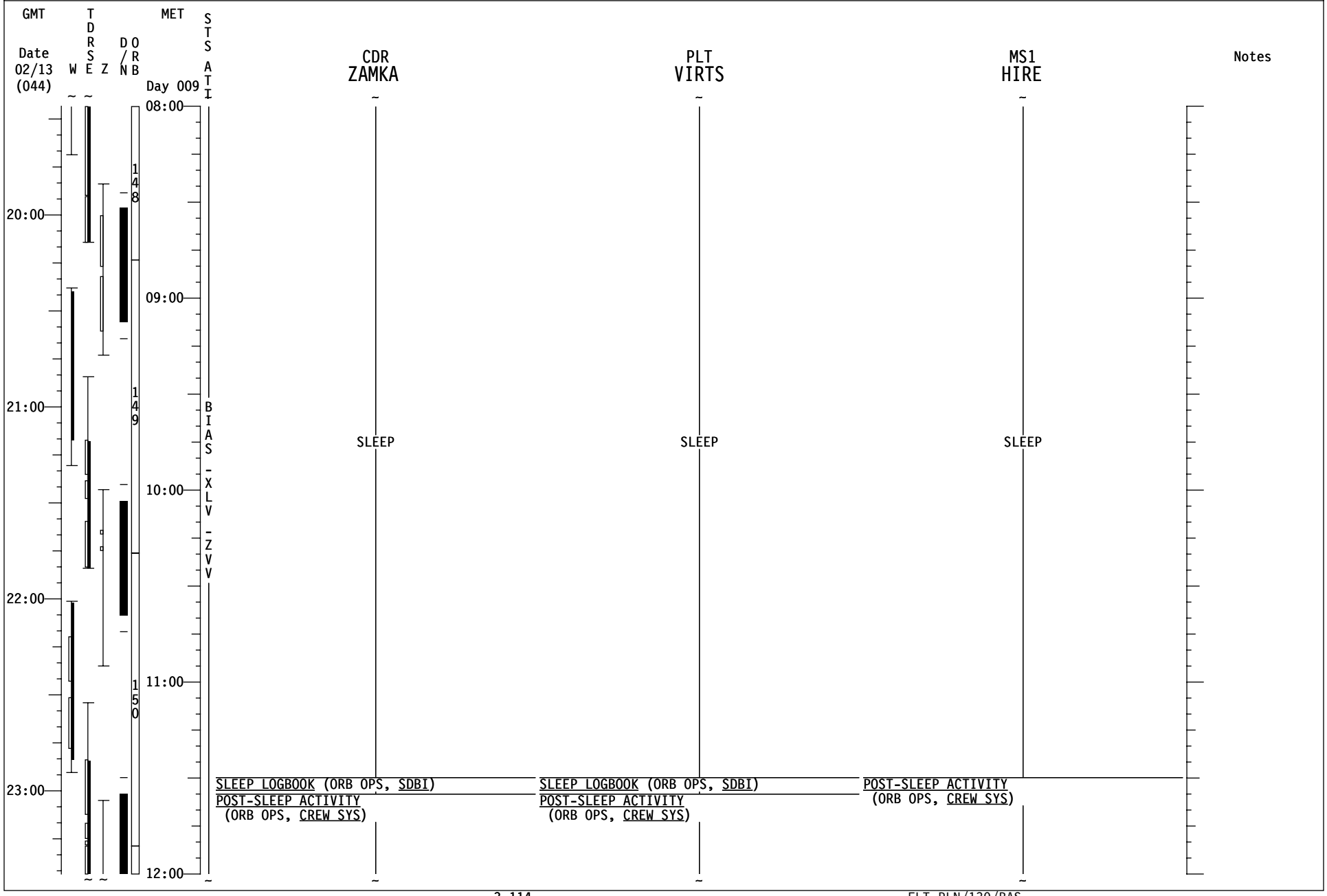
STS-130 FD11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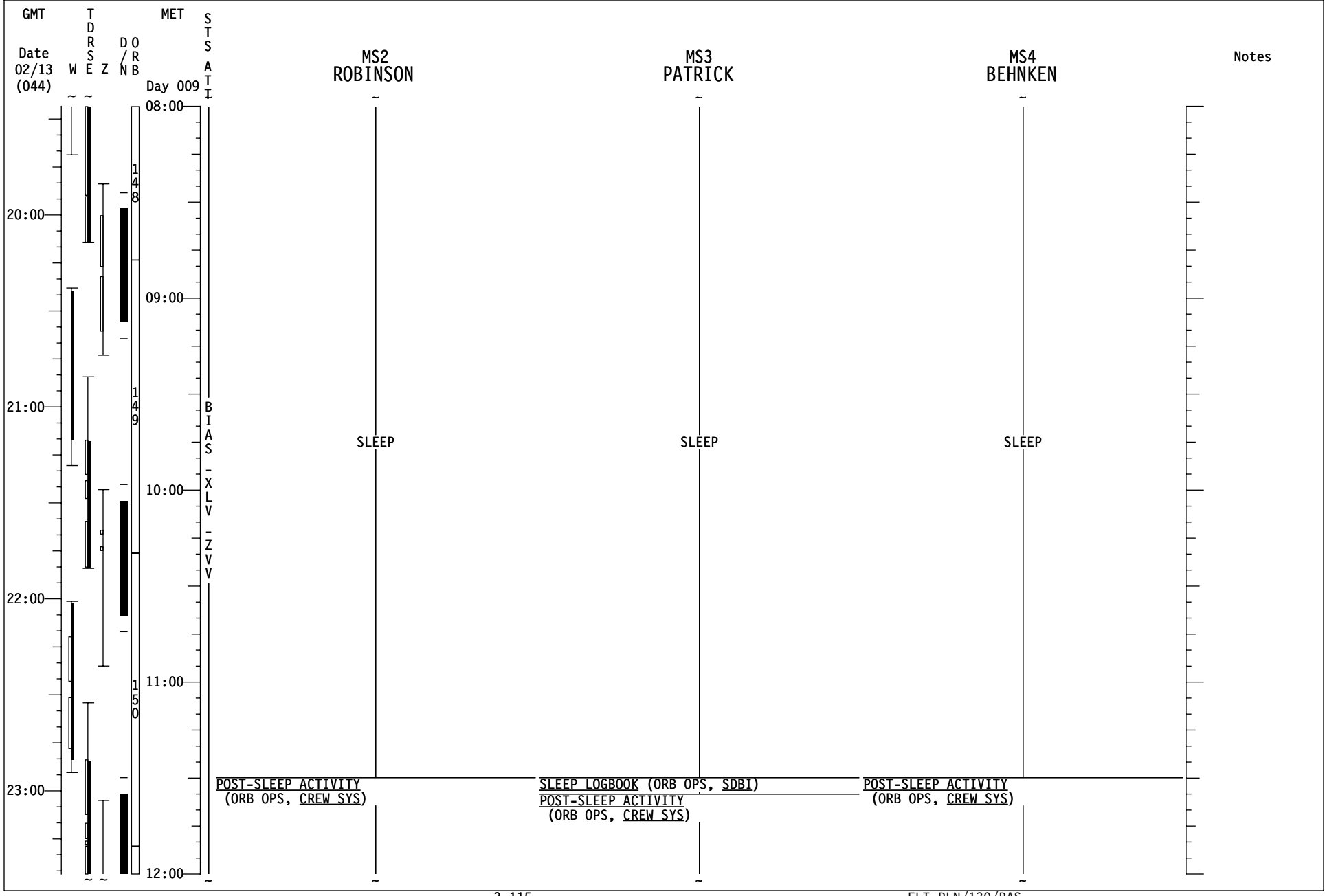
SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

STS-130 FD11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MS2
ROBINSON
MS3
PATRICK
MS4
BEHNKEN
Notes
SLEEP
SLEEP
SLEEP
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

STS-130 FD11

GMT Date 02/13 (044) | W | TDRSE | Z | D/N | ORB | MET Day 009 | STS ATI

CDR ZAMKA	PLT VIRTS	MS1 HIRE	Notes
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
	IMU STAR OF OPPTY ALIGN (ORB OPS, GNC) L17 Check MCIU filter screen PRIOR PWRUP GRP B(ORB PKT,PRIOR PWRDN) Step 12 (In step 12, Recover IMU 2), 6 ([A]),5		
H/O ATT CNTRL CMG TA to ORB:√MCC for DAP MNVR UNDOCK -ZLV -XVV TGT=2 BV=3 P=180 Y=0 OM=0 A12/AUTO/VERN Init TRK	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	SSV OUTRATE - 3 POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	TFL 192
UNDOCKING AND SEPARATION (RNDZ, UNDOCK/SEP T/L)	UNDOCKING AND SEPARATION (RNDZ, UNDOCK/SEP T/L)	UNDOCKING AND SEPARATION (RNDZ, UNDOCK/SEP T/L)	
SEP/FLYAROUND (RNDZ, UNDOCK/SEP T/L)	SEP/FLYAROUND (RNDZ, UNDOCK/SEP T/L)	SEP/FLYAROUND (RNDZ, UNDOCK/SEP T/L)	UPLINK β21 + Mask Box 30

FD11 EZ ACTIVITIES:
√OCAC FILTER
TEPC (STATUS CHECK)
(ORB OPS, CREW SYS)
HARD REBOOT ALL PGSCs EXCEPT:
STS-6(WLES),STS-5(RPOP2),&
OCA ROUTER.

[A] Triple G2
Step 4: √MCC or pause ~ 3 min(DAP settling)
DAP: as req'd

Time scale: 00:00, 01:00, 02:00, 03:00; 12:00, 13:00, 14:00, 15:00, 16:00

151, 152, 153

BIAS -XLV -ZVV

UNDOCK/FLYAROUND/SEP

STS-130 FD11

GMT Date 02/13 (044) | W | TDRS E | TDRS Z | D/N | ORB | MET Day 009 | STS ATI

MS2 ROBINSON

12:00 — POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

13:00 — PRIOR PWRUP GRP B(ORB PKT,PRIOR PWRDN) Step 12 (In step 12, Recover IMU 2), 6 (A),5

SSPTS OPCU DEACT B

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

14:00 — UNDOCKING AND SEPARATION (RNDZ, UNDOCK/SEP T/L)

15:00 — SEP/FLYAROUND (RNDZ, UNDOCK/SEP T/L)

16:00

MS3 PATRICK

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

A Triple G2
Step 4: √MCC or pause ~ 3 min(DAP settling)
DAP: as req'd

P/TV03 UNDOCK (PHOTO/TV, SCENES) Perform SETUP

P/TV03 UNDOCK (PHOTO/TV, SCENES) Setup

MS4 BEHNKEN

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

B SSPTS OPCU DEACT
On MCC GO: A15 OPCU 1,2 CONV(two) - OFF
R1 MN BUS TIE B - OFF(tb-OFF)
C - OFF(tb-OFF)

MIDDECK STATUS CHECK (ASSY OPS, P/L)
UNDOCKING AND SEPARATION (RNDZ, UNDOCK/SEP T/L)

SEP/FLYAROUND (RNDZ, UNDOCK/SEP T/L)

Notes

STS-130 FD11

GMT Date 02/14 (045) | W | TDRS E | Z | D/N | ORB | MET Day 009 | STS ATI

MET	CDR ZAMKA	PLT VIRTS	MS1 HIRE	Notes
16:00	SEP/FLYAROUND (RNDZ, UNDOCK/SEP T/L)	SEP/FLYAROUND (RNDZ, UNDOCK/SEP T/L)	SEP/FLYAROUND (RNDZ, UNDOCK/SEP T/L)	UPLINK β21 + Mask
04:00	MNVR -XLV +YVV (SIMO DUMP) TGT=2 BV=3 OM=270 A1/AUTO/VERN Init TRK	COMM STRING 1 C/O (PART A) (ORB OPS, COMM/INST)	JOINT OPS: 6.106 SSOR DEACTIVATION	
17:00	PRIOR PWRDN GRP B (ORB PKT, PRIOR PWRDN) Steps 5,6(Single G2),9,10 & 12 (In Step 12, IMU 2 STBY)	PRIOR PWRDN GRP B (ORB PKT, PRIOR PWRDN) Steps 5,6(Single G2),9,10 & 12 (In Step 12, IMU 2 STBY)	SSV OUTRATE - 4 OIU DEACTIVATION SSP1 OIU PWR - OFF (tb-bp) Expect S62 BCE BYP PSP1	TFL 188
	RCS REGULATOR RECONFIG (ORB OPS, RCS)			
05:00	MEAL	MEAL	MEAL	
18:00		PLAYBACK (DIGITAL) (PHOTO/TV, CUE CARD) KU TDRZ (18:15-19:07) Gimbal Flip: 18:24		
06:00	MNVR (TRK) BIAS +YSI (STBD SURVEY) TGT=4 BV=5 P=0 Y=30 OM=110 A14/AUTO/VERN, Init TRK		OBSS LDRI/IDC RCC SURVEY - STBD (PDRS, OBSS OPERATIONS)	
19:00	EXERCISE	EXERCISE		
07:00				
20:00				

DUMP

STBD SURVEY

153 154 155 156

STS-130 FD11

GMT Date 02/14 (045) | W | TDRSE | Z | D/N | ORB | MET Day 009 | STS ATI

MS2 ROBINSON	MS3 PATRICK	MS4 BEHNKEN	Notes
SEP/FLYAROUND (RNDZ, UNDOCK/SEP T/L)	P/TV03 UNDOCK (PHOTO/TV, SCENES) Setup	SEP/FLYAROUND (RNDZ, UNDOCK/SEP T/L)	
HEATER RECONFIG-CONFIG B(ORB OPS, EPS) CABIN TEMP CONTROLLER RECNFG 2(1) (ORB OPS, ECLS) SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Initiate Supply/Waste Dump	P/TV03 UNDOCK (DEACT) (PHOTO/TV, SCENES) Step 2	POST RNDZ PGSC CONFIG Configure PGSCs per usage chart	
		WLES DOCK/UNDK RECOVERY(ORB OPS,WLE SENSORS)	
MEAL	MEAL	MEAL	
SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Terminate Supply/Waste Dump		SHUTTLE CONDENSATE COLLECTION (ORB OPS, ECLS) Perform TEARDOWN	
OBSS MNVR TO FLAT FIELD (PDRS, OBSS NOMINAL)	OBSS MNVR TO FLAT FIELD (PDRS, OBSS NOMINAL)		
OBSS LDRI/IDC RCC SURVEY - STBD (PDRS, OBSS OPERATIONS)	OBSS LDRI/IDC RCC SURVEY - STBD (PDRS, OBSS OPERATIONS)		

Time scale: 04:00, 05:00, 06:00, 07:00; 16:00, 17:00, 18:00, 19:00, 20:00

Day 009: 153, 154, 155, 156

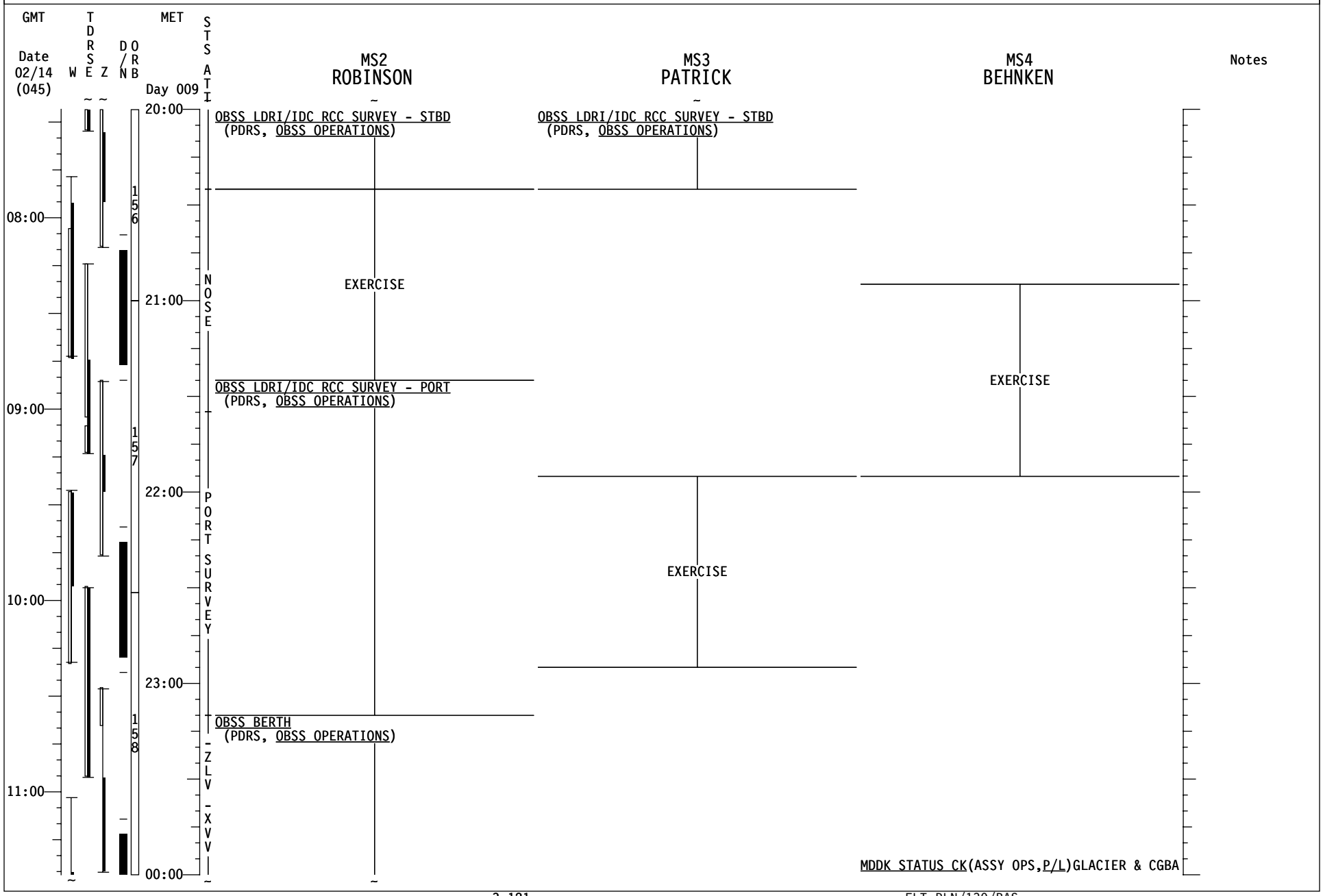
STS ATI: DUMP; STBD SURVEY

STS-130 FD11

GMT Date 02/14 (045) | W | TDRSE | Z | D/N | ORB | MET Day 009 | STS ATT | CDR ZAMKA | PLT VIRTS | MS1 HIRE | Notes

GMT	MET	STS ATT	CDR ZAMKA	PLT VIRTS	MS1 HIRE
	20:00		EXERCISE		OBSS LDRI/IDC RCC SURVEY - STBD (PDRS, OBSS OPERATIONS)
				EXERCISE	
08:00	156		MNVR (TRK) BIAS +XSI (NOSE CAP SURVEY) TGT=4 BV=5 P=331 Y=0 OM=290 A14/AUTO/VERN, Init TRK		
			OBSS LDRI RCC SURVEY - NOSE CAP (PDRS, OBSS OPERATIONS)	OBSS LDRI RCC SURVEY - NOSE CAP (PDRS, OBSS OPERATIONS)	OBSS LDRI RCC SURVEY - NOSE CAP (PDRS, OBSS OPERATIONS)
	21:00	NOSE			
09:00	157		In step 3 of OBSS LDRI/IDC RCC SURVEY-PORT MNVR (TRK) BIAS -YSI (PORT SURVEY) TGT=4 BV=5 P=0 Y=323 OM=248 A14/AUTO/VERN, Init TRK	OBSS LDRI/IDC RCC SURVEY - PORT (PDRS, OBSS OPERATIONS)	
			OBSS LDRI/IDC RCC SURVEY - PORT (PDRS, OBSS OPERATIONS)		EXERCISE
	22:00	PORT SURVEY			
10:00					
	23:00				
	158		MNVR (TRK) -ZLV -XVV TGT=2 BV=3 OM=0 A/AUTO/VERN Init TRK	OBSS BERTH (PDRS, OBSS OPERATIONS)	PLAYBACK (DIGITAL) (PHOTO/TV, CUE CARD) LDRI SURVEYS KU TDRE (22:30-23:29)
11:00		-ZLV -XVV	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
	00:00				

STS-130 FD11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Date 02/14 (045)
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STS ATT
MS2 ROBINSON
MS3 PATRICK
MS4 BEHNKEN
Notes
08:00
09:00
10:00
11:00
20:00
21:00
22:00
23:00
00:00
156
157
158
NOSE
PORT SURVEY
-ZLV -XVV
OBSS LDRI/IDC RCC SURVEY - STBD
(PDRS, OBSS OPERATIONS)
EXERCISE
OBSS LDRI/IDC RCC SURVEY - PORT
(PDRS, OBSS OPERATIONS)
OBSS BERTH
(PDRS, OBSS OPERATIONS)
OBSS LDRI/IDC RCC SURVEY - STBD
(PDRS, OBSS OPERATIONS)
EXERCISE
EXERCISE
MDDK STATUS CK(ASSY OPS,P/L)GLACIER & CGBA

STS-130 FD11

GMT Date 02/14 (045) | W | TDRSE | Z | D/N | ORB | MET Day 010 | STS ATI

CDR ZAMKA	PLT VIRTS	MS1 HIRE	Notes
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	OBSS BERTH (PDRS, OBSS OPERATIONS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
RMS PWRDN (PDRS, RMS PWRDN)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	RMS PWRDN (PDRS, RMS PWRDN)	
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		CREW CHOICE DOWNLINK (CUE CARD, PLAYBACK) KU TDRE: 00:11-01:06 Gimbal Flip: 00:37	
		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
FLIGHT DIRECTOR CONFERENCE			
PRIVATE MEDICAL CONFERENCE			
L9 PAYLOAD STATION A/G (two) - OFF Perform via A/G2			
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
SLEEP	SLEEP	SLEEP	

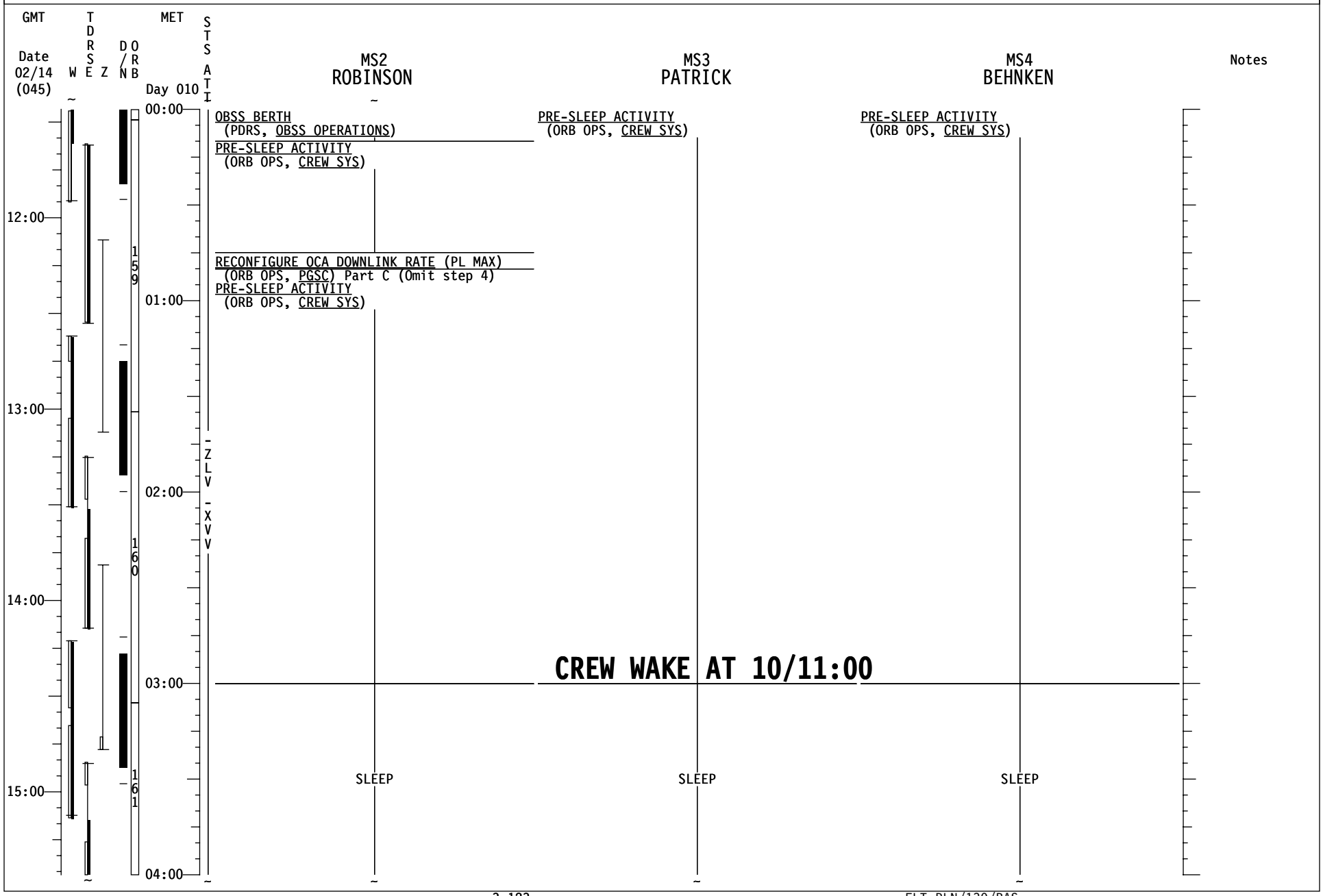
Time scale: 12:00, 13:00, 14:00, 15:00; 00:00, 01:00, 02:00, 03:00, 04:00

159, 160, 161

-ZLV -XVV

CREW WAKE AT 10/11:00

STS-130 FD11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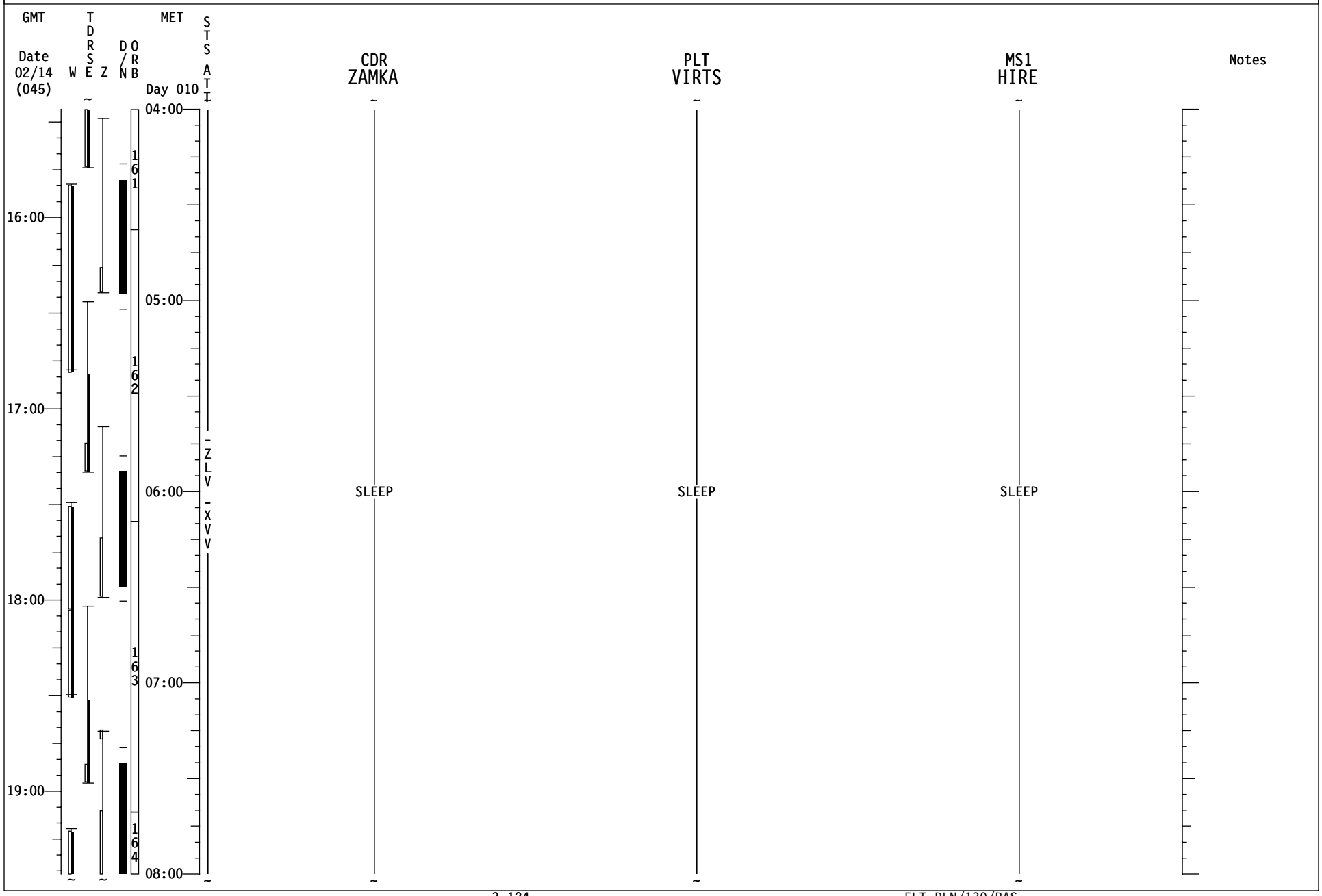
STS ATI
MS2 ROBINSON
MS3 PATRICK
MS4 BEHNKEN
Notes
00:00
01:00
02:00
03:00
04:00
12:00
13:00
14:00
15:00
159
160
161
-ZLV
-XVV
OBSS BERTH
(PDRS, OBSS OPERATIONS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
RECONFIGURE OCA DOWNLINK RATE (PL MAX)
(ORB OPS, PGSC) Part C (Omit step 4)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
CREW WAKE AT 10/11:00
SLEEP
SLEEP
SLEEP

STS-130 FD11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S
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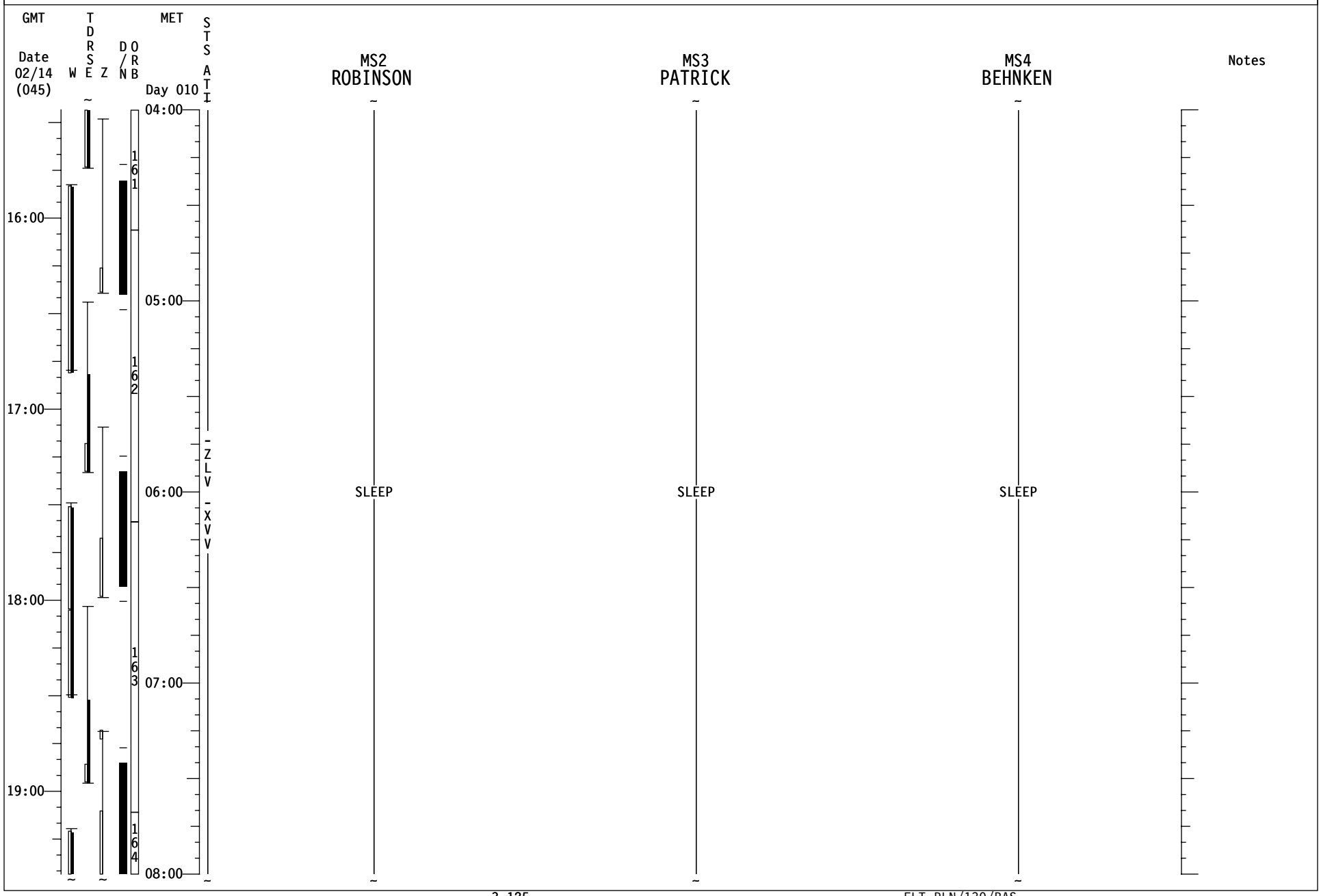
A
T
I
CDR
ZAMKA
PLT
VIRTS
MS1
HIRE
Notes
16:00
17:00
18:00
19:00
04:00
05:00
06:00
07:00
08:00
161
162
163
164
-ZLV
-XVV
SLEEP
SLEEP
SLEEP

STS-130 FD11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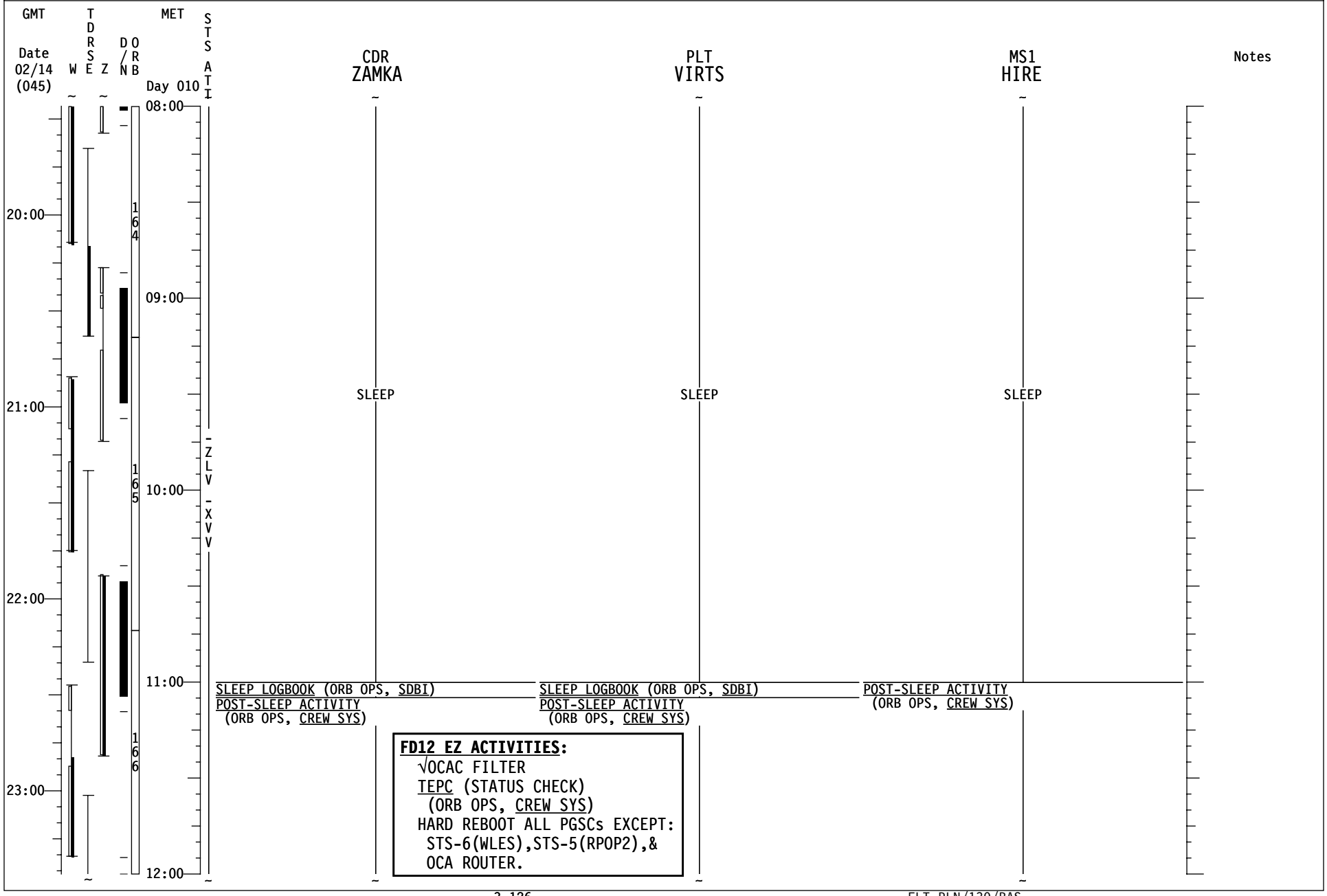
Day 010
S
T
S
A
T
I
MS2
ROBINSON
MS3
PATRICK
MS4
BEHNKEN
Notes
16:00
17:00
18:00
19:00
04:00
05:00
06:00
07:00
08:00
161
162
163
164
-ZLV
-XVV
SLEEP
SLEEP
SLEEP

STS-130 FD12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Day 010
S
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A
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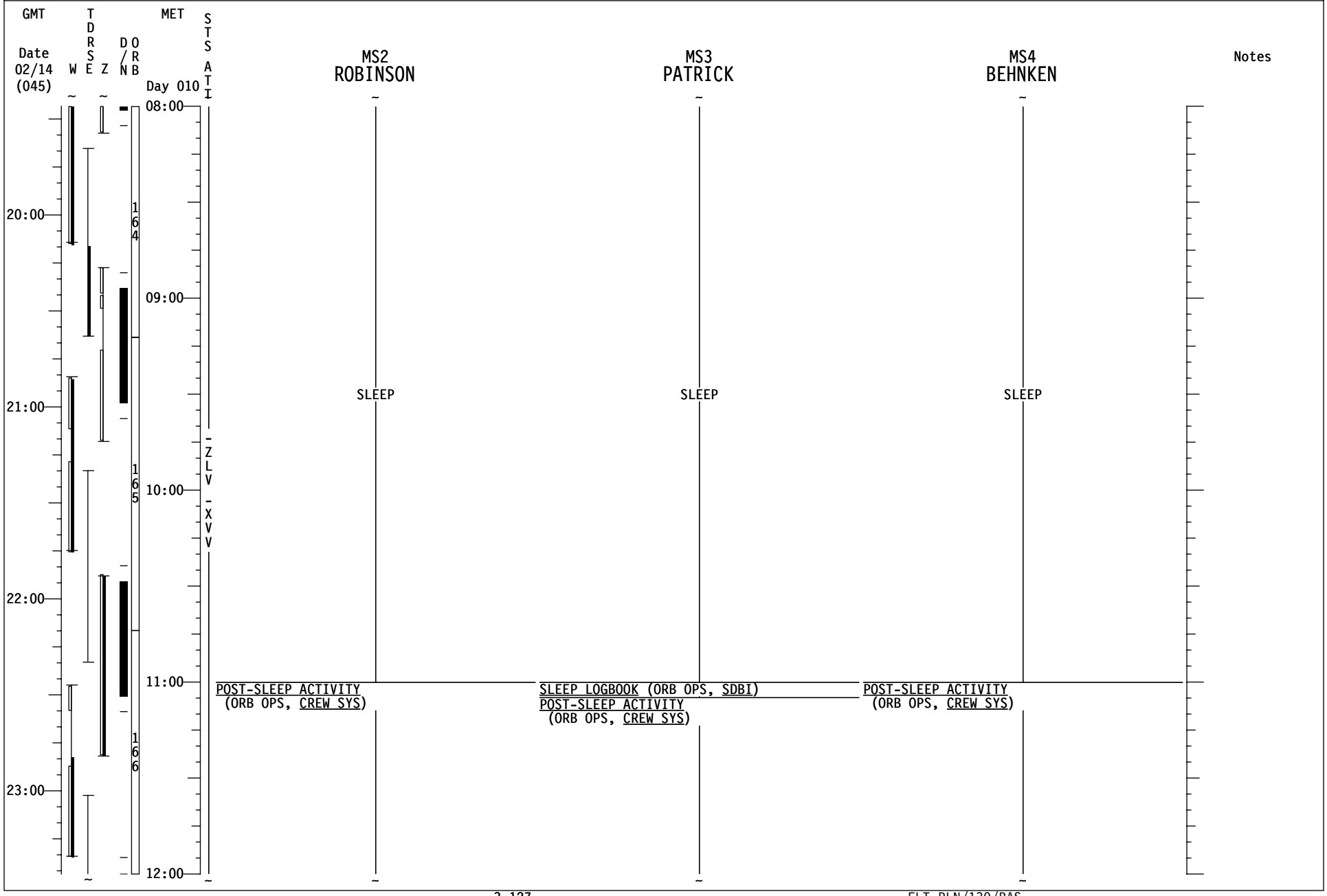
I
CDR
ZAMKA
PLT
VIRTS
MS1
HIRE
Notes
08:00
09:00
10:00
11:00
12:00
20:00
21:00
22:00
23:00
164
165
166
-ZLV
-XVV
SLEEP
SLEEP
SLEEP
SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
FD12 EZ ACTIVITIES:
√OCAC FILTER
TEPC (STATUS CHECK)
(ORB OPS, CREW SYS)
HARD REBOOT ALL PGSCs EXCEPT:
STS-6(WLES),STS-5(RPOP2),&
OCA ROUTER.

STS-130 FD12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Day 010
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MS2
ROBINSON
MS3
PATRICK
MS4
BEHNKEN
Notes
20:00
21:00
22:00
23:00
08:00
09:00
10:00
11:00
12:00
164
165
166
-ZLV
-XVV
SLEEP
SLEEP
SLEEP
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

STS-130 FD12

GMT Date 02/14 (045) | W | TDRS E | Z | D/N | ORB | MET Day 010 | STS ATI

CDR ZAMKA | PLT VIRTS | MS1 HIRE | Notes

12:00 — 13:00 — 14:00 — 15:00 — 16:00

00:00 — 01:00 — 02:00 — 03:00

ORB: 166, 167, 168, 169

STS ATI: -ZLV -XVV

CDR ZAMKA

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- EXERCISE
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- FILTER CLEANING (IFM, SCHEDULED MAINTENANCE)
- CABIN CONFIG/STOW

PLT VIRTS

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- EXERCISE
- IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)
- W/B STEAM VENT HTR ACT
- R2 √BLR CNTLR/HTR(three) -B
  PWR (three) -ON
- CABIN CONFIG/STOW
- COMM STRING 1 C/O (PART B) (ORB OPS, COMM/INST)

MS1 HIRE

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- EXERCISE
- CABIN CONFIG/STOW
- FCS C/O P/TV SURVEY (PHOTO/TV, REF PROC) Perform SETUP

STS-130 FD12

GMT Date 02/14 (045) | W | TDRS E | Z | D/N | ORB | MET Day 010 | STS ATI

MS2 ROBINSON | MS3 PATRICK | MS4 BEHNKEN | Notes

12:00 — 13:00 — 14:00 — 15:00 — 16:00

00:00 — 01:00 — 02:00 — 03:00

ORB: 166, 167, 168, 169

STS ATI: -ZLV, -XVV

MS2 ROBINSON

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- RECONFIGURE OCA DOWNLINK RATE [A]
- CABIN CONFIG/STOW
- EXERCISE
- CABIN CONFIG/STOW

MS3 PATRICK

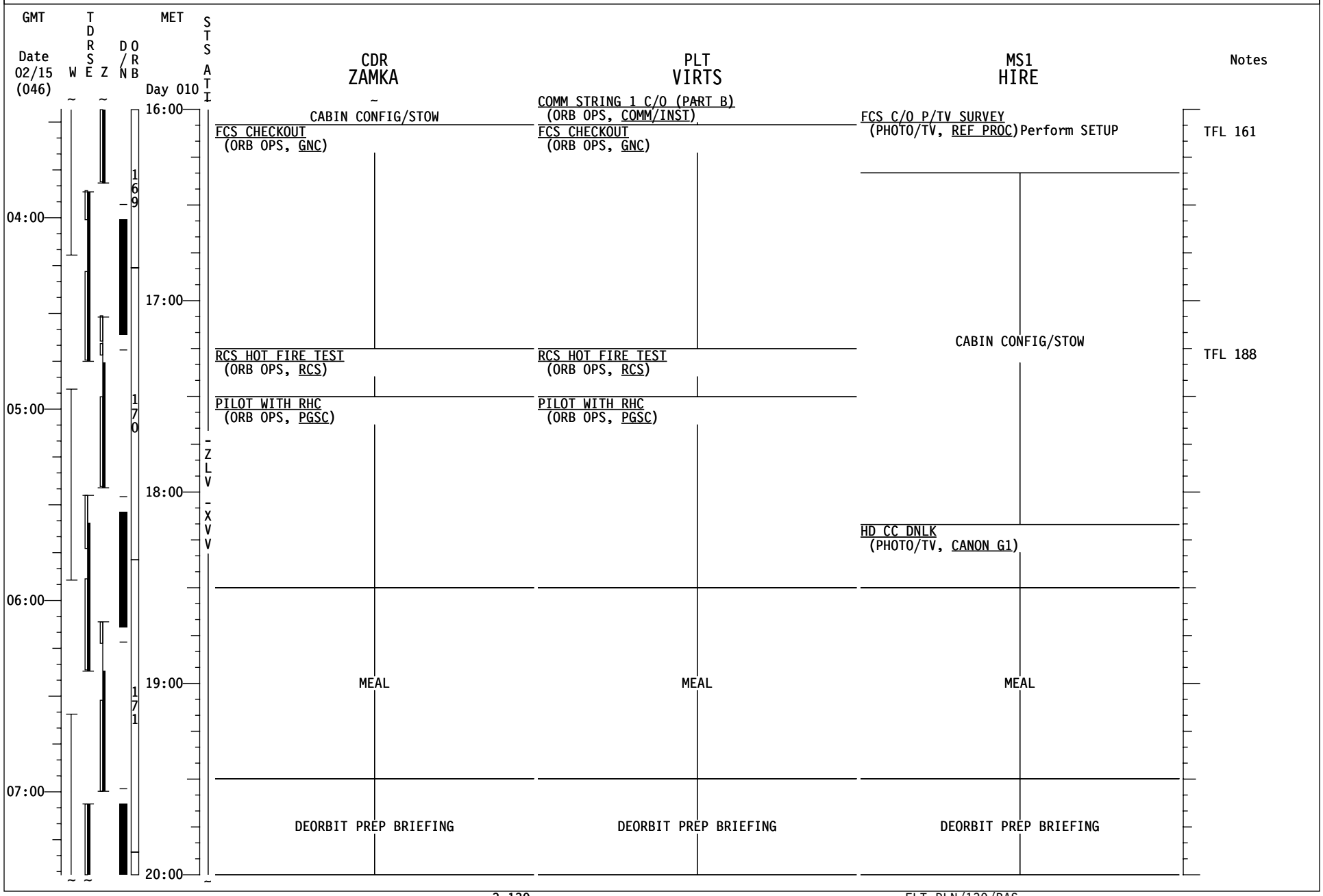
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- CABIN CONFIG/STOW
- EXERCISE

MS4 BEHNKEN

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- MDDK STATUS CK(ASSY OPS,P/L)GLACIER & CGBA
- CABIN CONFIG/STOW
- EXERCISE

[A] √MCC prior to configuring:
RECONFIGURE OCA DOWNLINK RATE (Ch. 2)
(ORB OPS,PGSC)Part D then A(Omit step 4)

STS-130 FD12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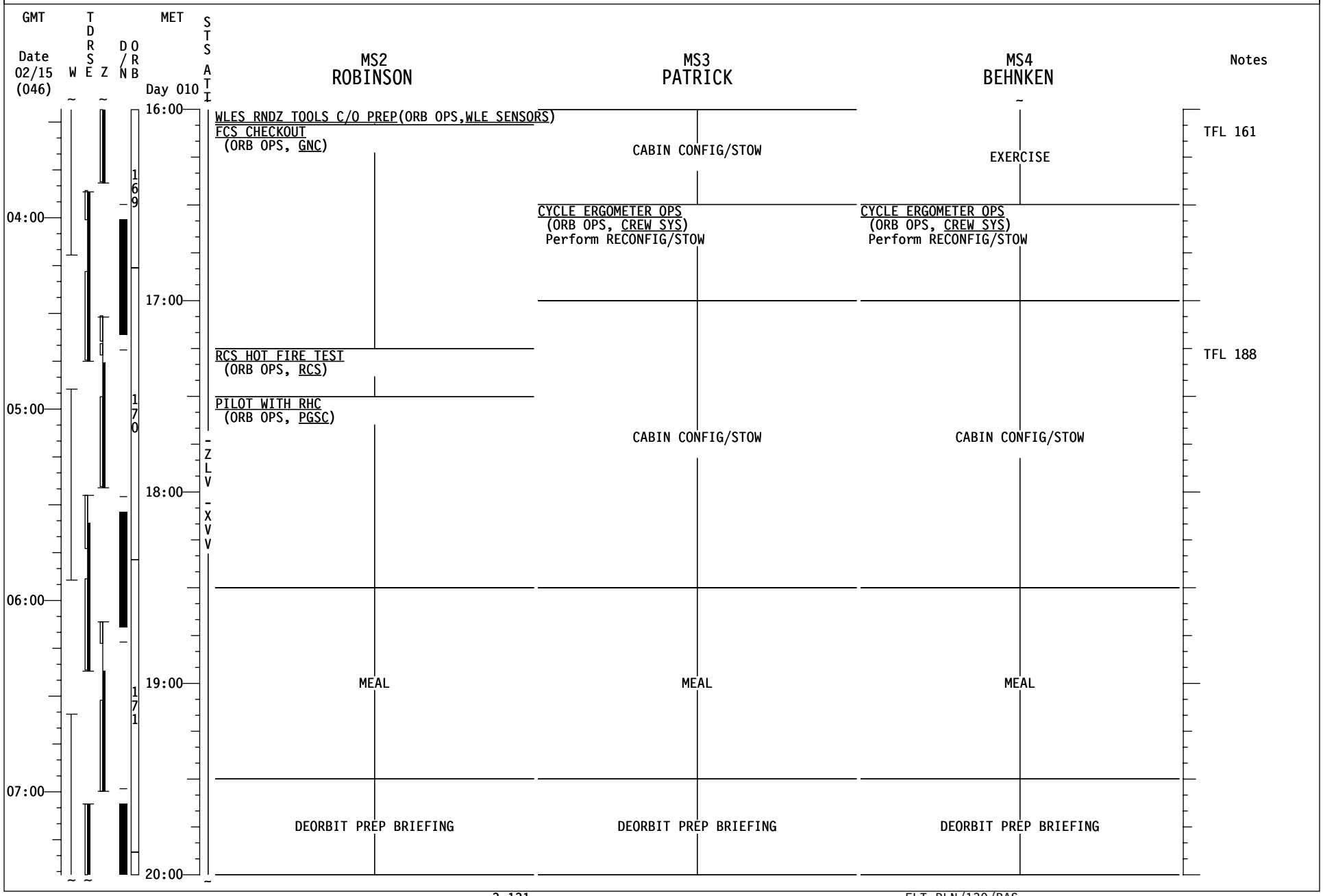
STS ATI
CDR ZAMKA
PLT VIRTS
MS1 HIRE
Notes
04:00
05:00
06:00
07:00
16:00
17:00
18:00
19:00
20:00
169
170
171
-ZLV
-XVV
CABIN CONFIG/STOW
FCS CHECKOUT (ORB OPS, GNC)
RCS HOT FIRE TEST (ORB OPS, RCS)
PILOT WITH RHC (ORB OPS, PGSC)
MEAL
DEORBIT PREP BRIEFING
COMM STRING 1 C/O (PART B) (ORB OPS, COMM/INST)
FCS CHECKOUT (ORB OPS, GNC)
RCS HOT FIRE TEST (ORB OPS, RCS)
PILOT WITH RHC (ORB OPS, PGSC)
MEAL
DEORBIT PREP BRIEFING
FCS C/O P/TV SURVEY (PHOTO/TV, REF PROC) Perform SETUP
CABIN CONFIG/STOW
HD CC DNLK (PHOTO/TV, CANON G1)
MEAL
DEORBIT PREP BRIEFING
TFL 161
TFL 188

STS-130 FD12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STS ATI
MS2 ROBINSON
MS3 PATRICK
MS4 BEHNKEN
Notes
16:00
17:00
18:00
19:00
20:00
04:00
05:00
06:00
07:00
169
170
171
-ZLV
-XVV
WLES RNDZ TOOLS C/O PREP(ORB OPS,WLE SENSORS)
FCS CHECKOUT
(ORB OPS, GNC)
RCS HOT FIRE TEST
(ORB OPS, RCS)
PILOT WITH RHC
(ORB OPS, PGSC)
CABIN CONFIG/STOW
CYCLE ERGOMETER OPS
(ORB OPS, CREW SYS)
Perform RECONFIG/STOW
EXERCISE
CABIN CONFIG/STOW
CABIN CONFIG/STOW
MEAL
MEAL
MEAL
DEORBIT PREP BRIEFING
DEORBIT PREP BRIEFING
DEORBIT PREP BRIEFING
TFL 161
TFL 188

STS-130 FD12

GMT Date 02/15 (046) | W | TDRS E | Z | D/N | ORB | MET Day 010 | STS ATI

CDR ZAMKA

PUBLIC AFFAIRS EVENT
KU TDRE: 19:38-20:35
Gimbal Flip: 20:06

LANDING-1 COMM C/O
(ORB OPS, COMM/INST)

SUPPLY WATER DUMP USING FES
(ORB OPS, ECLS) Step 1

CABIN CONFIG/STOW

LANDING-1 COMM C/O
(ORB OPS, COMM/INST)

CABIN CONFIG/STOW

SUPPLY WATER DUMP USING FES
(ORB OPS, ECLS)
Perform Step 2 w/FES reqd
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PLT VIRTS

PUBLIC AFFAIRS EVENT
KU TDRE: 19:38-20:35
Gimbal Flip: 20:06

SSV DEACTIVATION
(PHOTO/TV, SSV)

CABIN CONFIG/STOW

B R12 √VPU PWR - OFF(LED-off)
Minimize use of P/TV equipment
Dim cabin lighting to 25%

ENTRY COOLING CONFIG B
A6L MADS STRAIN GAGE - ON
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS1 HIRE

PUBLIC AFFAIRS EVENT
KU TDRE: 19:38-20:35
Gimbal Flip: 20:06

ENTRY VIDEO SETUP
(PHOTO/TV, MINI-CAM)

CABIN CONFIG/STOW

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

Notes

TFL 161

STS-130 FD12

GMT Date 02/15 (046) | W | TDRS E | Z | D/N | ORB | MET Day 010 | STS ATI

MS2 ROBINSON | MS3 PATRICK | MS4 BEHNKEN | Notes

20:00

PUBLIC AFFAIRS EVENT
KU TDRE: 19:38-20:35
Gimbal Flip: 20:06

RECONFIGURE OCA DOWNLINK RATE (PL MAX)
(ORB OPS, PGSC) Part C (Omit step 4)

08:00

172

21:00

CABIN CONFIG/STOW

09:00

-ZLV

CABIN CONFIG/STOW

22:00

173

-XVV

10:00

DEACTIVATION AND TEARDOWN
(ORB OPS, WLE SENSORS)

23:00

KU-BD ANT STOW(ORB OPS, COMM/INST)
Deactivate CCTV

PGSC NETWORK (B.TEARDOWN)
COLOR PRINTER STOW (ORB OPS, PGSC)
Stow color printer and all STS PGSCs

174

11:00

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

NLP TERMINATION
(ASSY OPS, P/L)Terminate GAPs K-P

NLP TERMINATION
(ASSY OPS, P/L)
Terminate GAPs 9-16

MDDK STATUS CK(ASSY OPS,P/L)GLACIER & CGBA

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

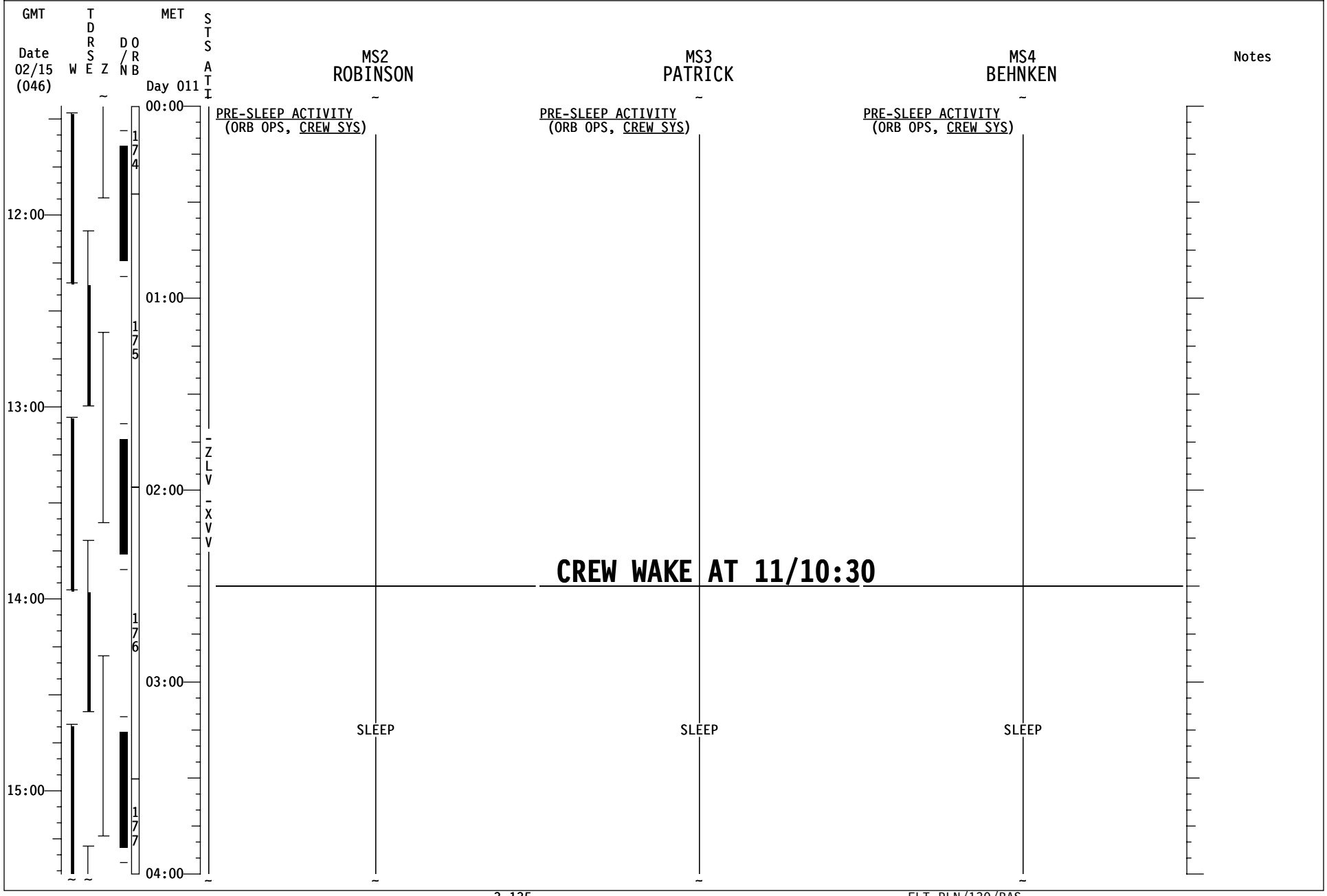
00:00

STS-130 FD12

GMT Date 02/15 (046)	W	TDRSE	Z	D/N	ORB	MET Day 011	STS ATI	CDR ZAMKA	PLT VIRTS	MS1 HIRE	Notes
12:00					174	00:00		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
								FLIGHT DIRECTOR CONFERENCE			
								PRIVATE MEDICAL CONFERENCE			
							L9	PAYLOAD STATION A/G (two) - OFF Perform via A/G2			
								PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
13:00					175	01:00					
							-ZLV				
						02:00	-XVV				
14:00					176	03:00					
								SLEEP	SLEEP	SLEEP	
15:00					177	04:00					

CREW WAKE AT 11/10:30

STS-130 FD12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MS2
ROBINSON
MS3
PATRICK
MS4
BEHNKEN
Notes
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
174
175
176
177
00:00
01:00
02:00
03:00
04:00
12:00
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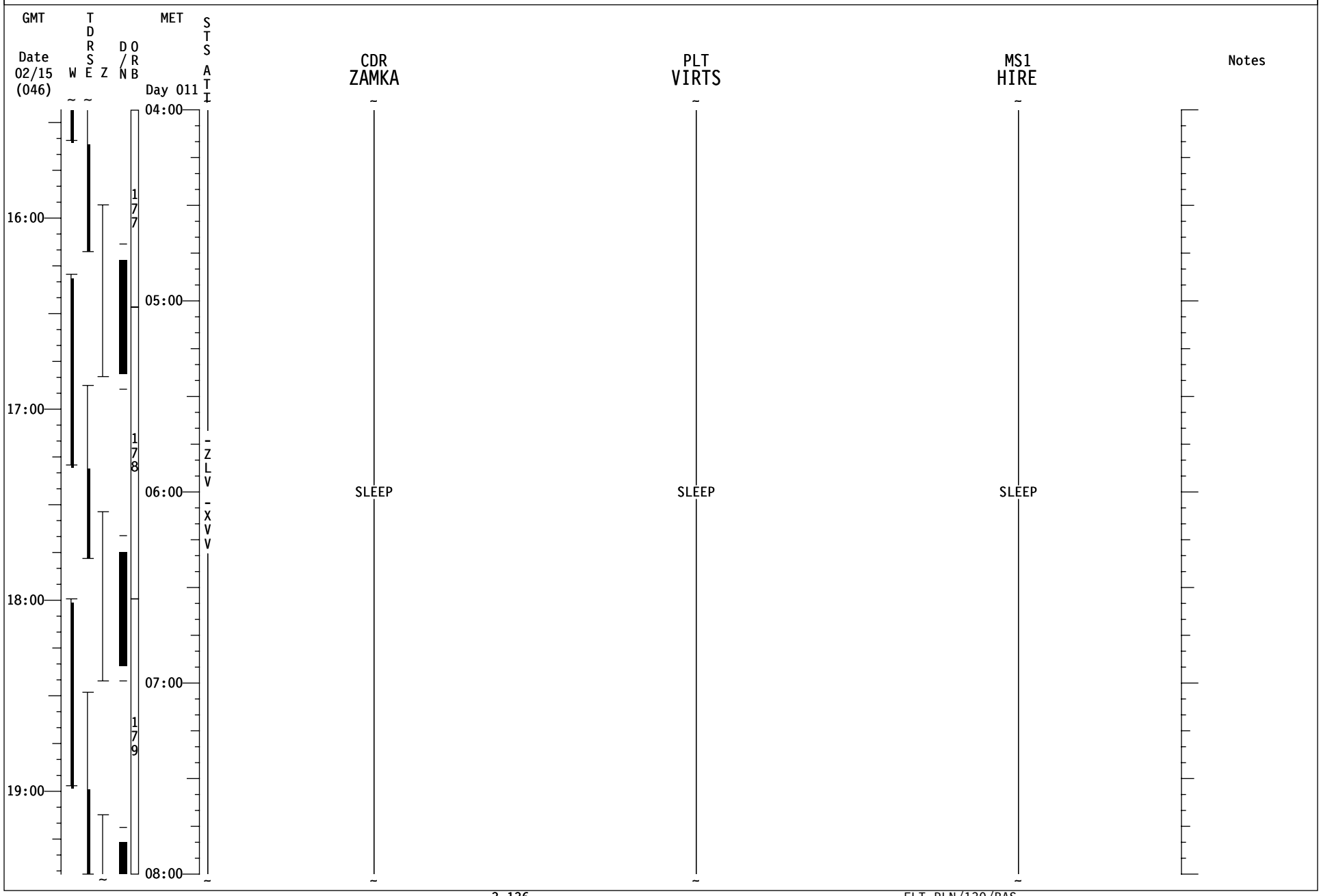
-ZLV
-XVV
CREW WAKE AT 11/10:30
SLEEP
SLEEP
SLEEP

STS-130 FD12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Notes
16:00
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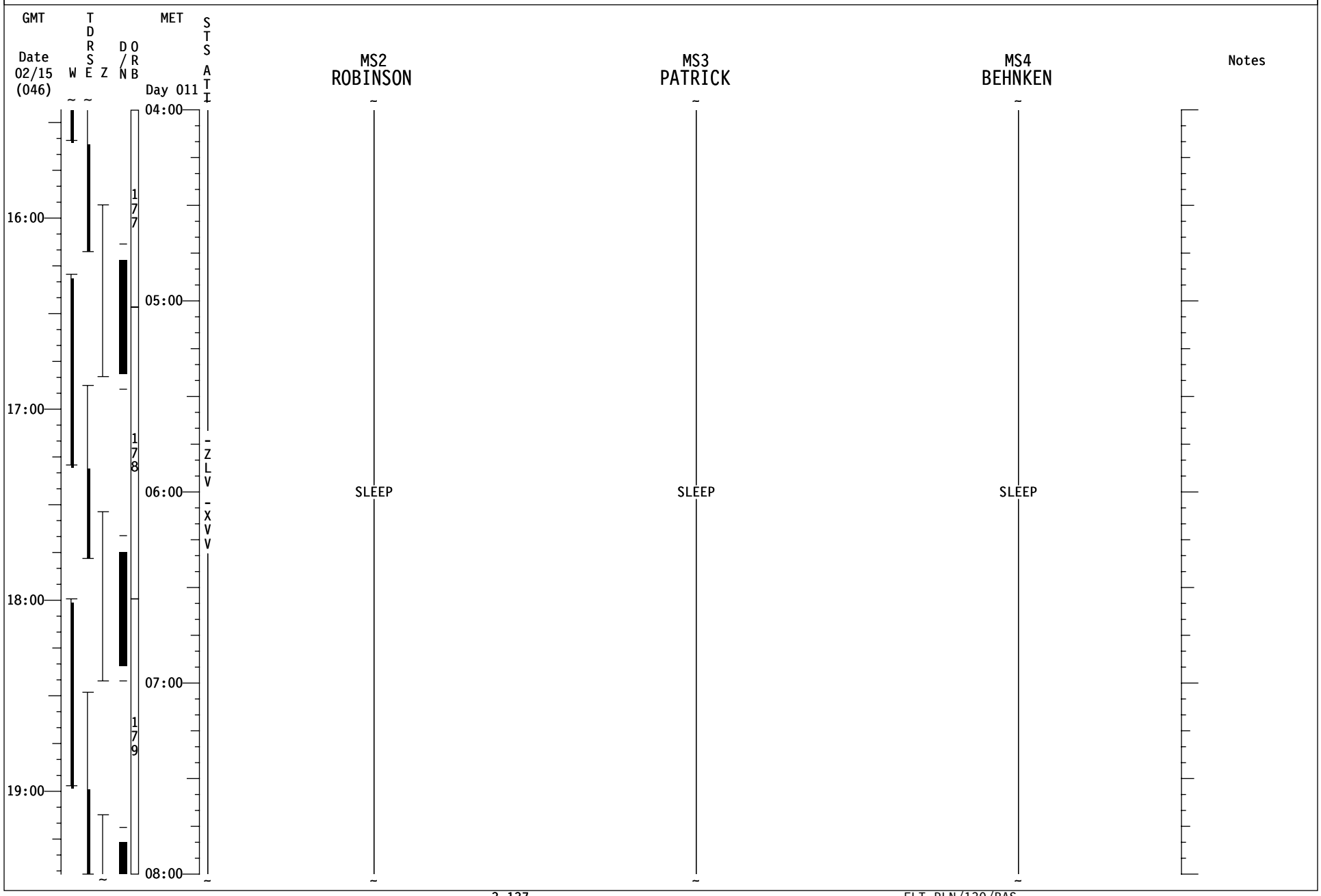
06:00
07:00
08:00
177
178
179
-ZLV
-XVV
SLEEP
SLEEP
SLEEP

STS-130 FD12


GMT
Date
02/15
(046)
W
T
D
R
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E
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R
B
MET
Day 011
S
T
S
A
T
I
MS2
ROBINSON
MS3
PATRICK
MS4
BEHNKEN
Notes
16:00
17:00
18:00
19:00
04:00
05:00
06:00
07:00
08:00
177
178
179
-ZLV
-XVV
SLEEP
SLEEP
SLEEP

STS-130 FD13

GMT Date 02/15 (046) | W | TDRSE | Z | D/N | ORB | MET Day 011 | STS ATI | CDR ZAMKA | PLT VIRTS | MS1 HIRE | Notes

08:00
09:00
10:00
11:00
12:00
20:00
21:00
22:00
23:00

180
181
182

-ZLV -XVV

SLEEP

SLEEP

SLEEP

SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

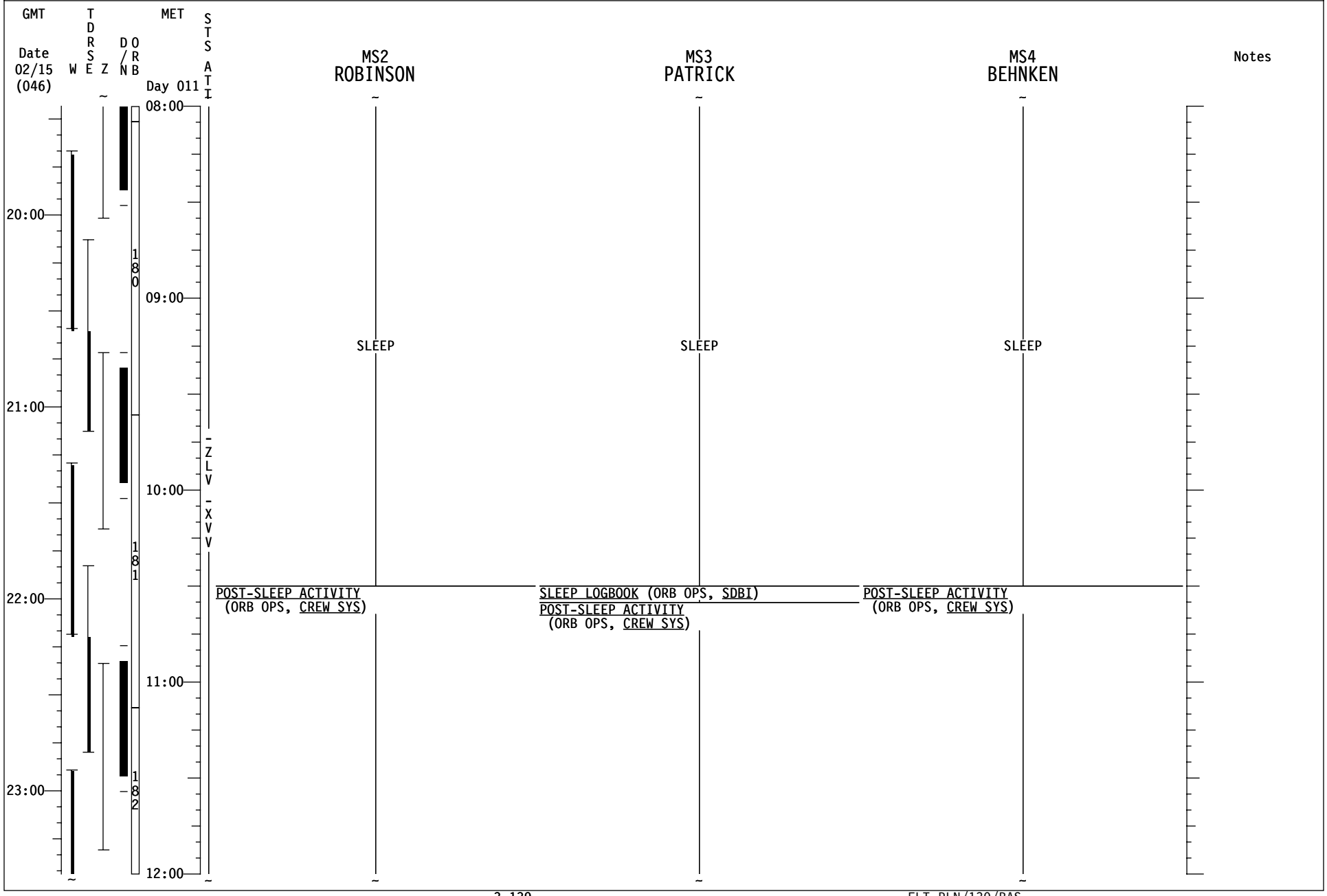
FD13 EZ ACTIVITIES BEFORE LEAVING

FLIGHT PLAN:

√OCAC FILTER
Stow CSA-CP
TEPC (STATUS CHECK)
(ORB OPS, CREW SYS)
FLUID LOADING PREP
Fill Drink Containers per MSG XXX.

PRIVATE MEDICAL CONFERENCE
L9 PAYLOAD STATION A/G (two) - OFF
Perform via A/G2

STS-130 FD13


GMT
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02/15
(046)
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Day 011
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MS2
ROBINSON
MS3
PATRICK
MS4
BEHNKEN
Notes
08:00
09:00
10:00
11:00
12:00
20:00
21:00
22:00
23:00
180
181
182
-ZLV
-XVV
SLEEP
SLEEP
SLEEP
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

STS-130 FD13

GMT Date 02/15 (046) | W | TDRSE | Z | D/N | ORB | MET Day 011 | STS ATI | CDR ZAMKA | PLT VIRTS | MS1 HIRE | Notes

12:00

00:00

01:00

02:00

03:00

13:00

14:00

15:00

16:00

182

183

184

185

-ZLV -XVV

IMU

-XSI

CDR ZAMKA

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

DOFFING ACTIWATCH (ORB OPS, SDBI)

PRIORITY PWRUP GRP B(ORB PKT,PRI PWRDN)
Step 12 (In step 12, Recover IMU 2),
10,9,7,6 (Dual G2),5, & 2

MNVR IMU STAR ALIGN ATT A (pg 3-139)
A/AUTO/VERN Init MNVR (13:10)
IMU ALIGN - S TRK (ORB OPS, GNC)
MNVR IMU VERIF ATT B (pg 3-139)
B/AUTO/PRI Init MNVR
IMU ALIGN - S TRK (ORB OPS, GNC)

MNVR (TRK) -XSI ATT
TG=4 BV=3 P=184 Y=0 OM=90
A/AUTO/VERN (13:44) Init TRK

PLT VIRTS

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRIORITY PWRUP GRP B(ORB PKT,PRI PWRDN)
Step 12 (In step 12, Recover IMU 2),
10,9,7,6 (Dual G2),5, & 2

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

A6L MADS STRAIN GAGE - PCM ENA
AIR SAMPLE Record MET & location on bottle
DOFFING ACTIWATCH (ORB OPS, SDBI)

MS1 HIRE

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

GO TO DEORBIT PREP @ 11/14:00

STS-130 FD13

GMT Date 02/15 (046) | W | TDRSE | Z | D/N | ORB | MET Day 011 | STS ATI | MS2 ROBINSON | MS3 PATRICK | MS4 BEHNKEN | Notes

12:00 13:00 14:00 15:00 16:00

00:00 01:00 02:00 03:00

182 183 184 185

-ZLV -XVV IMU -XSI

MS2 ROBINSON

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PGSC NETWORK (B.TEARDOWN)
(ORB OPS, PGSC)
Stow remaining PGSCs

MS3 PATRICK

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

OCAC STOWAGE
(ORB OPS, CREW SYS)

GIRA STOWAGE
(ORB OPS, ECLS)

DOFFING ACTIWATCH (ORB OPS, SDBI)

MS4 BEHNKEN

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MDDK STATUS CK(ASSY OPS,P/L)GLACIER & CGBA
TISSUE EQUIVALENT PROPORTIONAL COUNTER
(TEPC) (ORB OPS, CREW SYSTEMS)
Powerdown

GO TO DEORBIT PREP @ 11/14:00

A IMU STAR ALIGN PAD

ID: -Y: 57 ACAMAR
MET (011/13:24 TO 11/14:13)

-Z: 57 ALPHA ARAE
MET (011/13:13 TO 11/14:07)

ANG DIFF: 83.7

DUAL S TRKR ALIGNMENT		2nd ATTITUDE (SINGLE S TRKR) -Z: 57	-Y: 84
R	237	R 34	309
P	149	P 317	196
Y	33	Y 9	333

REQD ID:

-Y: _____, -Z: _____, ANG ERR____,____ ____

ANG:	1	2	3
ΔX	( )___,___ ___	( )___,___ ___	( )___,___ ___
ΔY	( )___,___ ___	( )___,___ ___	( )___,___ ___
ΔZ	( )___,___ ___	( )___,___ ___	( )___,___ ___

EXECUTION TIME: ____/___:___:___MET

B IMU VERIFICATION STAR ALIGN PAD

ID: -Y: 54 DIPHDA
MET (011/13:15 TO 011/14:04)

-Z: 68 REGOR
MET (011/13:36 TO 011/14:25)

ANG DIFF: 90.5

DUAL S TRKR ALIGNMENT		2nd ATTITUDE (SINGLE S TRKR) -Z: 54	-Y: 68
R	93	R 13	205
P	293	P 282	265
Y	57	Y 43	62

REQD ID:

-Y: _____, -Z: _____, ANG ERR____,____ ____

ANG:	1	2	3
ΔX	( )___,___ ___	( )___,___ ___	( )___,___ ___
ΔY	( )___,___ ___	( )___,___ ___	( )___,___ ___
ΔZ	( )___,___ ___	( )___,___ ___	( )___,___ ___

If any ΔX, ΔY, OR ΔZ > 0.1 Check MCC

EXECUTION TIME: ____/___:___:___MET

Space Shuttle Program
FLIGHT DATA FILE

JSC-48000-130
BASIC

FLIGHT PLAN

STS 130

Flight Cover (trim bottom to expose tabs)