Space Shuttle Program
FLIGHT DATA FILE

JSC-48000-131

Flight Plan

STS-131/19A

(FDO L-48_Mar18 Trajectory)

Mission Operations Directorate
Operations Division

Final
February 16, 2010

EVENT	FD	MET	DATE	CDT	GMT
Launch	1	00/00:00	3/18/2010	12:35	077/17:35
OMS-2	1	00/00:38	3/18/2010	13:13	077/18:13
OBSS Survey	2	00/18:45	3/19/2010	07:20	078/12:20
Docking	3	01/20:39	3/20/2010	09:14	079/14:14
MPLM Install	4	02/15:00	3/21/2010	03:35	080/08:35
EVA 1	5	03/17:50	3/22/2010	06:25	081/11:25
EVA 2	7	05/16:55	3/24/2010	05:30	083/10:30
EVA 3	9	07/16:20	3/26/2010	04:55	085/09:55
MPLM Uninstall	11	09/13:00	3/28/2010	01:35	087/06:35
Undocking	12	10/15:00	3/29/2010	03:35	088/08:35
Late Inspection	12	10/18:40	3/29/2010	07:15	088/12:15
Deorbit	14	12/16:59	3/31/2010	05:34	090/10:34
Landing	14	12/18:03	3/31/2010	06:38	090/11:38

For the latest working copy of the Flight Plan, visit
http://modspops.jsc.nasa.gov/mod/DO/DO4/Joint/131_19A/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

FLIGHT PLAN STS-131	FINAL (Feb 16, 2010)

PCN-1 (Mar 24, 2010) Sheet 1 of 1

List of Implemented Change Requests (482s):

FLT PLN-02138

Incorporate the following:

1. Replace iii and iv
2. Replace 1-3 and 1-4
3. Replace 2-3 thru 2-48
   After 2-48, add 2-49 and 2-50
4. Replace 3-1 thru 3-42

Prepared by: _____
Book Manager, Lead FAO

Approved by: _____
Chief, Flight Planning Branch

Encl: 94 pages

File this PCN immediately behind the front cover as a permanent record

MISSION OPERATIONS DIRECTORATE

FLIGHT PLAN
STS-131

FINAL
February 16, 2010

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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.

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Incorporates the following:
482#: FLT PLN-02117

AREAS OF TECHNICAL RESPONSIBILITY

Book Manager/Lead FAO	DO4/T. Melroy	281-244-1132
Lead Timeliner	DO4/G. Whitney	281-483-1919
Lead Pointer	DO4/P. Renaud	281-244-6203
Lead Ops Planner	DO4/L. Voiles	281-244-6467
Lead RPE	DO4/A. Velazco	281-244-2425

FLIGHT PLAN
STS-131

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* – Omit from flight book

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INTRODUCTION

The STS-131 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-17462-131, STS-131 Flight Requirements Document
NSTS-37326, Shuttle Crew Scheduling Constraints
NSTS-21553, ISS-19A Mission Integration Plan

The STS-131 Flight Plan is based on a launch date of March 18, 2010, at 17:35:12 GMT (02:35:12 PM CDT). Orbiter inertial attitudes are expressed relative to a mean of 1950 (M50) reference frame.

The following Shuttle Crew Scheduling Constraints (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/131_19A/default.aspx

Non-flown sections that are no longer published:

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

OVERVIEW TIMELINE

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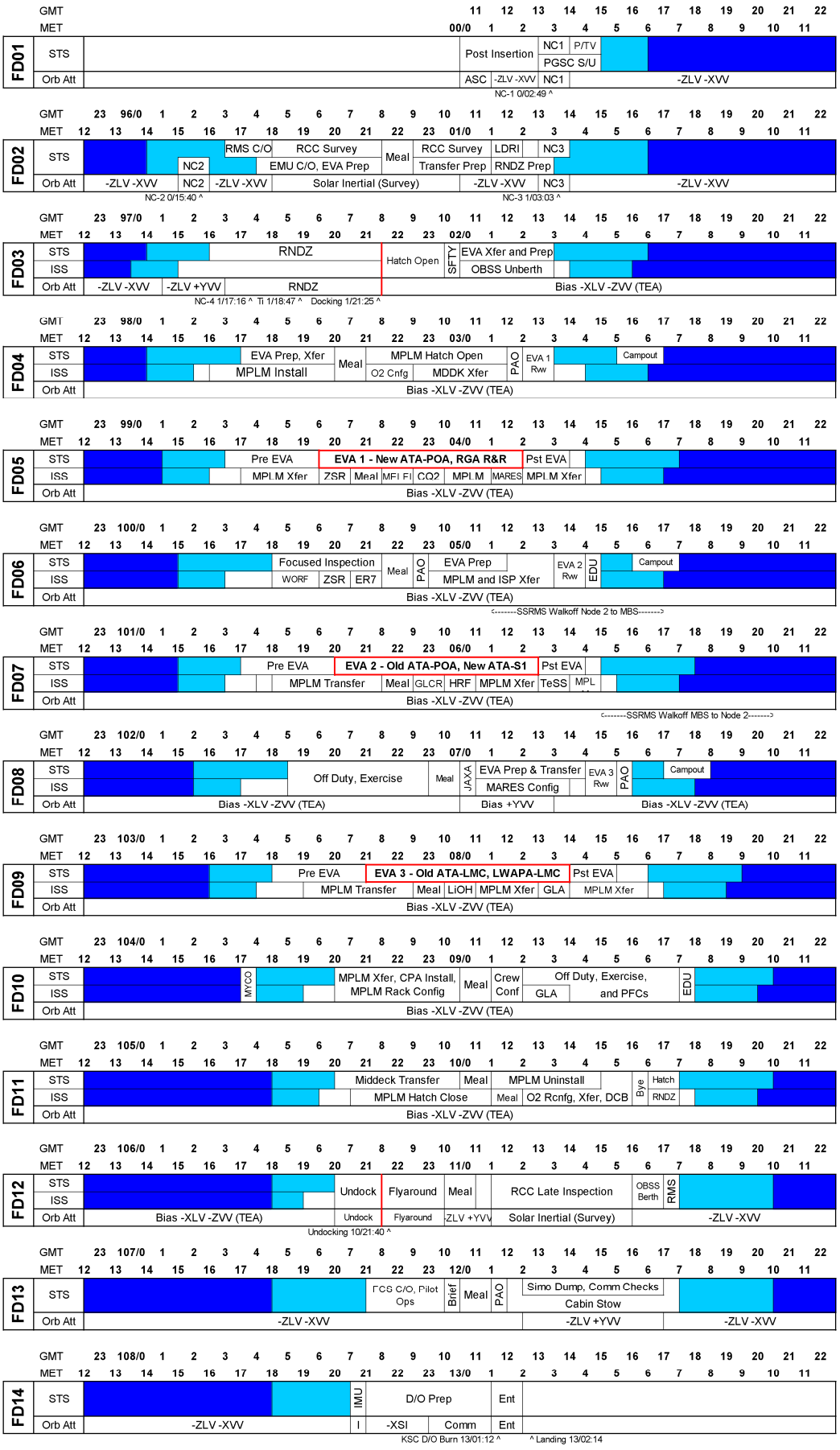
STS-131/ISS 19A
Overview Timeline 13+1+2
GMT L/O: 095/10:21:21



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SUMMARY TIMELINE

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FD01

GMT 04/05/10 (095)

MET Day 000

-06 -05 -04 -03 -02 -01 000/00 01 02 03 04 05 06 05 06 07 08 09 10 11 12 13 14 15 16

STS-131

| | | |

FD01

GMT 04/05/10 (095)
β = −31
MET Day 000

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

STS-131

CDR	POINDEXTER	SLEEP; **FD02** POST SLEEP; **NC2^** OMS BURN; MNVR; -ZLV; POST SLEEP; OMS%
PLT	DUTTON	SLEEP; POST SLEEP; OMS BURN; POST SLEEP; RMS; PWRUP; RMS C/O; OBSS; UNBERTH
MS1	MASTRACCHIO	SLEEP; POST SLEEP; MICIU; OIACT; APCU*; POST SLEEP; APCU@; OIUD/A; POST SLEEP; EMU C/O PREP
MS2	METCALF-LINDENBURGER	SLEEP; POST SLEEP; OMS BURN; POST SLEEP; RMS; PWRUP; RMS C/O; OBSS; UNBERTH
MS3	WILSON	SLEEP; LOG; POST SLEEP; FCMS OPS; POST SLEEP; MDK
MS4	YAMAZAKI	SLEEP; LOG; POST SLEEP; ERG SETUP; P/TV01 VIDEO SETUP
MS5	ANDERSON	SLEEP; LOG; POST SLEEP; ERG SETUP; EMU C/O PREP

DAY/NIGHT

ORBIT: 5 6 7 8 9 10 11 12

TDRS: W E Z

ATTITUDE: -ZLV -XVV; NC2; -ZLV -XVV

NOTES: *ACT @DEACT B POD HTR RCFG%

FD02

GMT 04/06/10 (096)
β = −29
MET Day 000

18 05 06 07 08 09 10 11 12 13 14 15 16
19 20 21 22 23 001/00 01 02 03 04 05 06

STS-131

CDR POINDEXTER	EMU C/O		MNVR	STBD	EXERCISE		MNVR	NOSE	MEAL	MNVR	PORT	PORT WING SURVEY	MNVR	-ZLV	WSB*	CRYO O2 SNSR CK		IMU	PRE SLEEP	NC3^ +X RCS BURN	MNVR	-ZLV	FUTURE	LOAD	MINI CAM D/L	PMC A/G	PRE SLEEP
PLT DUTTON	OBSS UNBERTH		STBD WING SURVEY				MEAL			PORT WING SURVEY			OBSS BERTH					OMS POD SRVY	PTV08	PRESLP	+X RCS BURN			PRE SLEEP		
MS1 MASTRACCHIO	EMU C/O			EVA PREP FOR XFER				MEAL				EXERCISE		C/L CMR INSTL	FILTER CLEAN		FCPRG@		PRE SLEEP						
MS2 METCALF-LINDENBURGER	OBSS UNBERTH		STBD WING SURVEY			NOSE CAP SURVEY		MEAL			OBSS BERTH		EXERCISE		PRE SLEEP		+X RCS BURN	ODS RING EXT	PRE SLEEP						
MS3 WILSON			STBD WING SURVEY			NOSE CAP SURVEY		MEAL		MDDK XFER PREP			RNDZ TOOLS C/O		AEM VIDEO	AEM#	NLP ACT	MDDK	PRE SLEEP		OCA$	PRE SLEEP			
MS4 YAMAZAKI	P/TV01 VIDEO SETUP		EXERCISE		MEAL	NOSE CAP SURVEY		PORT WING SURVEY					C/L CMR INSTL	LDRI DOWNLINK		PRE SLEEP		ODS RING EXT	PRE SLEEP						
MS5 ANDERSON	EMU C/O			EVA PREP FOR XFER		CWC-I S/U		MEAL		MDDK XFER PREP			COND CWC S/U	RNDZ TOOLS C/O		EXERCISE		PRE SLEEP						

DAY/NIGHT

ORBIT: 13 14 15 16 17 18 19 20

TDRS: W E Z

ATTITUDE: BIAS +YSI | BIAS +XSI | BIAS -YSI | -ZLV -XVV | NC3 | -ZLV -XVV

NOTES: *CNTLR SWAP; @MANUAL; #STATUS CHECK; $48 Mbps

FD02

GMT 04/06/10 (096)
β = −27
MET Day 001

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

STS-131

CDR	POINDEXTER	SLEEP; MNVR^; FD03; POST SLEEP; IMU; GRPB; PWRUP; NC4^; ISS RNDZ OPS
PLT	DUTTON	SLEEP; POST SLEEP; OMS#; GRPB; PWRUP; ISS RNDZ OPS
MS1	MASTRACCHIO	SLEEP; SIMO INIT; POST SLEEP; SIMO TERM; POST SLEEP; EMU$
MS2	METCALF-LINDENBURGER	SLEEP; POST SLEEP; OIU; APCU*; POST SLEEP; APCU@; MCIU; POST SLEEP; TRDR^; POST SLEEP; EXER -CISE
MS3	WILSON	SLEEP; LOG; POST SLEEP; OCA%; ISS RNDZ OPS
MS4	YAMAZAKI	SLEEP; LOG; POST SLEEP; SSV-3; MDK; TRANSFER LIST UPDATE
MS5	ANDERSON	SLEEP; LOG; POST SLEEP; EXERCISE; EMU$

DAY/NIGHT

ORBIT: 20 21 22 23 24 25 26 27 28

TDRS: W E Z

ATTITUDE: -ZLV -XVV; -ZLV +YVV; RNDZ

NOTES:
#A POD HTR RECONFIG
*ACT @DEACT ^ACT
%2 Mbps
REMOVAL$

FD03

GMT 04/06/10 (096)
β = −27
MET Day 001

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

ISS	ISS CDR KOTOV	SLEEP							**FD03** POST SLEEP	PREP WORK	DPC	P/TV RPM VRFY S/U		EXERCISE TVIS	VELO
	FE-1 SKVORTSOV	SLEEP							POST SLEEP	PREP WORK	DPC				
	FE-2 CALDWELL	SLEEP						REACT	POST SLEEP	PREP WORK	DPC	P/TV RPM VRFY S/U	CGBACK HRF2		WNDW
	FE-3 KORNIENKO	SLEEP							POST SLEEP	PREP WORK	DPC				
	FE-5 NOGUCHI	SLEEP						REACT	POST SLEEP	PREP WORK	DPC	EXERCISE ARED			WNDW T2
	FE-6 CREAMER	SLEEP						REACT	POST SLEEP	PREP WORK	DPC	P/TV RPM VRFY S/U		D2XS EXERCISE CEVIS	EXER ARED

TDRS AVAIL

DAY/NIGHT

DAILY ORBIT	9	10	11	12	13	14	15	1	2
ORBIT		1221	1222	1223	1224	1225	1226	1227	1228

NOTES

FD03

GMT 04/07/10 (097)
β = −25
MET Day 001

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

STS-131

CDR POINDEXTER	ISS RNDZ OPS (Ti^)	APPROACH T/L (RPM^)	HATCH LEAK CK - STS	ODS PREP FOR INGR	INGRS HATCH OPEN	WELCOME	SAFETY BRIEF	PSETUP5	PSETUP6	PTV04	CFWCL-I #1	CFWCL-I #2	CFWCL-I #3	CWC-I XFER (3)	PRE SLEEP	POLYSBK	PRE SLEEP	PMC A/G	PRE SLEEP
PLT DUTTON	ISS RNDZ OPS	APPROACH T/L	MNVR TEA	GRPB PWRDN SOPCTUS H/O&% DAUDIO CK	WELCOME	SAFETY BRIEF	RMS OBSS HANDOFF										PRE SLEEP		
MS1 MASTRACCHIO	EMU$ GALLY EMU DRINK BAG FILL GALLY EXERCISE	P/TV02 DOCK	HATCH LEAK CK - STS	ODS PREP FOR INGR	INGRS HATCH OPEN	WELCOME	SAFETY BRIEF	EVA CAMR	POST DOCK EVA XFER	PST DK EVA RCNFG	REBA*	RE/BOA	MDDK XFER				PRE SLEEP		
MS2 METCALF-LINDENBURGER	EXER-CISE ISS RNDZ OPS	APPROACH T/L	TRDR* GRPB PWRDN			WELCOME	SAFETY BRIEF	RMS OBSS HANDOFF									PRE SLEEP		
MS3 WILSON	ISS RNDZ OPS	APPROACH T/L				WELCOME	SAFETY BRIEF	DOUG	SSRMS OBSS HAND OFF					MDDK XFER		MDDK	AEM#	PRE SLEEP	
MS4 YAMAZAKI	EXERCISE PS/VU02 P/TV02 DOCK	APPROACH T/L	PTV02 DEACT SSV-2 PS/VU04 P/TV04 OPS			WELCOME	SAFETY BRIEF	LDCR	SSRMS OBSS HAND OFF					MDDK XFER		PRE SLEEP	XTFAGRUP	XFER BREF	PRE SLEEP
MS5 ANDERSON	EMU$ ISS RNDZ OPS	APPROACH T/L				WELCOME	SAFETY BRIEF		POST DOCK EVA XFER	PST DK EVA RCNFG	REBA*	RE/BOA	MDDK XFER				PRE SLEEP		

DOCKING*

DAY/NIGHT

ORBIT: 28 29 30 31 32 33 34 35 36

TDRS W E Z

ORB ATT: RNDZ | DOCK | BIAS -XLV -ZVV

NOTES: $REMOVAL; *DEACT %ACT &STS to CMG; *INSTALL; #STATUS CHECK

NO EXERCISE (ATTITUDE RATE SETTLING)

DOCKING 1/21:25*

NO EXER (DUAL GRPL)

FD03

GMT 04/07/10 (097)
β = −25
MET Day 001

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

| | | |

FD03

GMT 04/07/10 (097)
β = −23
MET Day 002

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

STS-131

CDR	POINDEXTER	SLEEP; **FD04** POST SLEEP; APCU*; POST SLEEP; APCU@; POST SLEEP; MDK; XFER; UPDAT; IMU; CWCI-I; FILL #4; CWCI-I; FILL #5; CWCI-I; FILL #6
PLT	DUTTON	SLEEP; POST SLEEP; P/TV06 ROBOTICS
MS1	MASTRACCHIO	SLEEP; POST SLEEP; TOOL CONFIG
MS2	METCALF-LINDENBURGER	SLEEP; POST SLEEP; MCIU; POST SLEEP; PRLA; MDDK XFER
MS3	WILSON	SLEEP; POST SLEEP; SSRMS GRAPL; MPLM UNBERTH INSTALL; MPLM^
MS4	YAMAZAKI	SLEEP; POST SLEEP; SSRMS GRAPL; MPLM UNBERTH INSTALL; MPLM^
MS5	ANDERSON	SLEEP; LOG; POST SLEEP; DOUG; S/U; POST SLEEP; TOOL CONFIG

DAY/NIGHT

ORBIT: 36 37 38 39 40 41 42 43 44

TDRS: W E Z

ORB ATT: BIAS -XLV -ZVV

*ACT @DEACT INSTALL^

NOTES: **NO T2 EXER** (MPLM MNVR FROM BERTH TO PRE-INST)

FD03

GMT 04/07/10 (097)
β = −23
MET Day 002

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

ISS	ISS CDR KOTOV	SLEEP													**FD04** POST SLEEP	PRP WK	DPC	PREP WORK		VELO			
	FE-1 SKVORTSOV	SLEEP													POST SLEEP	PRP WK	DPC	PREP WORK					
	FE-2 CALDWELL	SLEEP												REACT	POST SLEEP	PRP WK	DPC	PREP WORK	VCA MV N2		T2 INSP	CSA-CP MNT	
	FE-3 KORNIENKO	SLEEP													POST SLEEP	PRP WK	DPC	PREP WORK					
	FE-5 NOGUCHI	SLEEP												REACT	EXERCISE ARED		DPC	PREP WORK	EXERCISE CEVIS		ECCO UNPK		VERF
	FE-6 CREAMER	SLEEP												REACT	POST SLEEP	EXERCISE CEVIS	DPC	CBCS	WNDW	MPLM VEST EQUIP S/U			VERF CBCS
	TDRS AVAIL																						
	DAY/NIGHT																						
	DAILY ORBIT	10	11		12		13		14		15				16				1			2	
	ORBIT	1236	1237		1238		1239		1240		1241				1242				1243			1244	

NOTES

NO T2 EXER
(MPLM MNVR FROM BERTH TO PRE-INST)

FD04

GMT 04/08/10 (098)
β = −21
MET Day 002

18 05 06 07 08 09 10 11 12 13 14 15 16
19 20 21 22 23 003/00 01 02 03 04 05 06

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CDR POINDEXTER	CWC-I XFER (3) · MDDK XFER · MEAL · MDDK XFER · EXERCISE · MDDK XFER · PAO EVENT · EVA 1 PROC RVW · PRE SLEEP · PMC A/G
PLT DUTTON	P/TV06 ROBOTICS · PTV06 · MEAL · N2-I · MDDK XFER · N2-T · P/TV 09 S/U · MRLN PHOTO · GLAC PHOTO · EXERCISE · EVA 1 PROC RVW · PRE SLEEP
MS1 MASTRACCHIO	TOOL CONFIG · E_LK PREP · MDDK XFER · MEAL · STS 02 P/B CONFIG · MDDK XFER · EXERCISE · MDDK XFER · PAO EVENT · EVA 1 PROC RVW · PRE SLEEP · 10.2 DPRS MASK P/B TOOL CONFIG
MS2 METCALF-LINDENBURGER	MDDK XFER · TOOL CONFIG · MDDK XFER · MEAL · MDDK XFER · EXERCISE · EVA 1 PROC RVW · RGA GATHER · MPAC/ SEED GATHER · XFER TAGUP · PRE SLEEP
MS3 WILSON	MPLM^ · LIMP · BRAKE · MPLM UNGRP · MEAL · MDDK XFER · EXERCISE · SMP XFR RVW · MERLIN UNPACK · GLCR MLF XFER · DSOTOL^ · AEM* · PAO EVENT · EVA 1 PROC RVW · NLP TERM · PRE SLEEP
MS4 YAMAZAKI	MPLM^ · LIMP · BRAKE · MPLM UNGRP · MPLM VEST PRESS · MEAL · MDDK XFER · EXERCISE · MDDK · AEM# · PTV05 SETUP · PTV05 OPS · AEM VIDEO · PRE SLEEP · XFER TAGUP · XFER BRIEF · PRE SLEEP
MS5 ANDERSON	TOOL CONFIG · E_LK PREP · MDDK XFER · EXERCISE · MEAL · MPLM VEST INGRS CNFG · MPLM ACT PART 1 · VEST · MPLM ACT II · MPLM INGR · EVA 1 PROC RVW · PRE SLEEP · 10.2 DPRS MASK P/B

DAY/NIGHT

ORBIT: 44 45 46 47 48 49 50 51 52

TDRS W E Z

ORB ATT: BIAS -XLV -ZVV — BIAS -XLV -ZVV

NOTES
^ INSTALL
NO EXERCISE (MPLM INSTL/ BOLT LOAD)
^PHOTO
*PHOTO
#STATUS CHECK

FD04

GMT 04/08/10 (098)
β = −21
MET Day 002

18 05 19 06 20 07 21 08 22 09 23 10 003/00 11 01 12 02 13 03 14 04 15 05 16 06

ISS	ISS CDR KOTOV	MIDDAY-MEAL; COX MNT; SMP XFR RVW; GLCR MLF XFER; TVIS; PREP WORK; DPC; PREP WORK; PRE SLEEP
ISS	FE-1 SKVORTSOV	MIDDAY-MEAL; PREP WORK; DPC; PREP WORK; PMC; PRE SLEEP
ISS	FE-2 CALDWELL	GSC SMPL; FFQ; MIDDAY-MEAL; MPLM VEST PRESS; ♣; RETURN; VCA; PREP WORK; DPC; PREP WORK; PRE SLEEP; PMC; PRE SLEEP; REACT
ISS	FE-3 KORNIENKO	MIDDAY-MEAL; PREP WORK; DPC; PREP WORK; PRE SLEEP; PMC; PRE SLEEP
ISS	FE-5 NOGUCHI	1ST STG CAP; CBM 2ND STG & ABOLTS; MIDDAY- MEAL; FFQ; MPLM VEST INGRS CNFG; MPLM-VEST CPA-RMV; VEST; VEST; COLOSE; MPLM; INGR; PREP WORK; DPC; PREP WORK; PRE SLEEP; REACT
ISS	FE-6 CREAMER	1ST STG CAP; CBM 2ND STG & ABOLTS; CBCS CAMRA RMV; LATCH; MIDDAY-MEAL; STS O2 P/B CONFIG; CWCI; PT1; FFQ; CWCI; PT2; NEURO; NEURO; NEURO; NEURO; NEURO; NEURO; PAO^; ARED; PREP WORK; DPC; DEACT; PREP WORK; PRE SLEEP; REACT
	TDRS AVAIL	
	DAY/NIGHT	
	DAILY ORBIT	2; 3; 4; 5; 6; 7; 8; 9; 10
	ORBIT	1244; 1245; 1246; 1247; 1248; 1249; 1250; 1251; 1252

^HD SETUP ♣UPA FILL

NOTES

NO EXERCISE
(MPLM INSTL/
BOLT LOAD)

FD04

GMT 04/08/10 (098)
β = −18
MET Day 003

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

STS-131

CDR POINDEXTER	PRE SLEEP	SLEEP							**FD05** POST SLEEP	PMC A/G	POST SLEEP		INHIB	PAD MPLM XFER
PLT DUTTON	PRE SLEEP	SLEEP							POST SLEEP		HYG BRK/ HATCH CLS	EVA PREP		EMU PURGE
MS1 MASTRACCHIO	PRE SLEEP	**ISS A/L Campout at 10.2 psi** SLEEP							POST SLEEP	14.7 RPRS HYG BRK/PREBREATHE	10.2 DPRS	EVA PREP		EMU PURGE
MS2 METCALF-LINDENBURGER	PRE SLEEP	SLEEP							POST SLEEP				MCIU	XFER
MS3 WILSON	PRE SLEEP	SLEEP							LOG	POST SLEEP			MDK	EXER
MS4 YAMAZAKI	PRE SLEEP	SLEEP							LOG	POST SLEEP			XFER UPDAT	XFER
MS5 ANDERSON	PRE SLEEP	**ISS A/L Campout at 10.2 psi** SLEEP							POST SLEEP	14.7 RPRS HYG BRK/PREBREATHE	10.2 DPRS	EVA PREP		EMU PURGE

DAY/NIGHT

ORBIT: 52 53 54 55 56 57 58 59 60

TDRS: W E Z

ORB ATT: BIAS -XLV -ZVV

NOTES

FD04

GMT 04/08/10 (098)
β = −18
MET Day 003

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

FD05

ISS	ISS CDR KOTOV	SLEEP; POST SLEEP; PR EP; WO RK; DPC; ♣; ⊕; VELO
ISS	FE-1 SKVORTSOV	SLEEP; POST SLEEP; PR EP; WO RK; DPC; PR EP; WO RK; VELO
ISS	FE-2 CALDWELL	SLEEP; REACT; POST SLEEP; HYG BRK/ HATCH CLS; EVA PREP; EMU; PURGE
ISS	FE-3 KORNIENKO	SLEEP; POST SLEEP; PR EP; WO RK; DPC; PR EP; WO RK
ISS	FE-5 NOGUCHI	SLEEP; REACT; POST SLEEP; PR EP; WO RK; DPC; ♦; TEST; DOUG; COBUL; ®; CQ BMPOUT RMV; ARED
ISS	FE-6 CREAMER	SLEEP; REACT; POST SLEEP; HYG BRK/ HATCH CLS; EVA PREP; EMU; PURGE

TDRS AVAIL

DAY/NIGHT

DAILY ORBIT	10	11	12	13	14	15	1	2	3
ORBIT	1252	1253	1254	1255	1256	1257	1258	1259	1260

NOTES

♣JPM/LAB/CUP-SHTR-CL
⊕C&T-CUCU-INH
♦PREP WORK
®VCA MV N2

FD05

GMT 04/09/10 (099)
β=−16
MET Day 003

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

STS-131

CDR POINDEXTER	MPLM XFER	P/TV 07 S/U	CWC-I	FILL #7	CWC-I	FILL #8	CWC-I XFER (2)	MEAL	IMU	P/TV07 EVA							PTV07	MPLM XFER	EXERCISE		PRE SLEEP		PMC A/G	PRE SLEEP
PLT DUTTON	EMU PREBREATHE	C-LK DPRS	P-DPS		MEAL			DOUG	S/U	EVA 1 SSRMS SUPPORT					MPLM XFER		P-RPS	C-LK	RPRS	POST EVA W/H2O		EXERCISE		PRE SLEEP
MS1 MASTRACCHIO	EMU PREBREATHE	C-LK DPRS	P-DPS	EGRS	FGB RTRV	PLB ATA REL PREP	PLB ATA REL AND H/O	JEM SEED RETRIEVAL	AGB RETRV &INST	SO RGA R&R	P6 BATTERY PREP	CLNUP	INGRS	P-RPS	C-LK	RPRS	POST EVA W/H2O				PRE SLEEP			
MS2 METCALF-LINDENBURGER	MPLM XFER	EVA IVA SPPRT PREP	EVA IVA SPRT												EXERCISE		MPLM XFER				PRE SLEEP			
MS3 WILSON	EXER	MPLM XFER						EVA 1 SSRMS SUPPORT						MPLM XFER					GLACR	MDDK	AEM#	XFER	TAGUP	PRE SLEEP
MS4 YAMAZAKI	MPLM XFER	EXERCISE		ZSR XFER	ZSR DEPLOY	MEAL		MELFI 3 XFER		CQ2 XFER		MPLM XFER			MARES XFER		MPLM XFER		WORF PREP	PRE SLEEP	XFER	TAGUP	PRE SLEEP	XFER BRIEF	PRE SLEEP
MS5 ANDERSON	EMU PREBREATHE	C-LK DPRS	P-DPS	EGRS	S1 ATA FQD REL	PLB ATA REL PREP	PLB ATA REL AND H/O	PLB CLEANUP	AGB RETRV &INST	SO RGA R&R	P6 BATTERY PREP	CLNUP	INGRS	P-RPS	C-LK	RPRS	POST EVA W/H2O				PRE SLEEP			

EVA 1 (6:30)

DAY/NIGHT

ORBIT: 60 61 62 63 64 65 66 67 68

TDRS W E Z

ORB ATT: BIAS -XLV -ZVV | BIAS -XLV -ZVV | BIAS -XLV -ZVV #STATUS CHECK

NOTES: **NO UNISOLATED EXERCISE** (APFR) (JEF OPS) (ESP-2); **NO UNISOLATED EXERCISE** (APFR OPS)

FD05

GMT 04/09/10 (099)
β=−16
MET Day 003

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

ISS

ISS CDR KOTOV	MPLM XFER	MIDDAY-MEAL	EXERCISE TVIS	EVENING PREP-WORK	DPC	PRE SLEEP
FE-1 SKVORTSOV	VELO	MIDDAY-MEAL	EVENING PREP-WORK	DPC	PRE SLEEP
FE-2 CALDWELL	EMU PREBREATHE	C-LK DPRS	GSC	MIDDAY-MEAL	PHOTO	ISS CREW ORIENTATION	T2	GSC	♣	POST EVA W/H2O	BSA INIT	⊕	PREP WRK	DPC	PRE SLEEP
FE-3 KORNIENKO	VELO	MIDDAY-MEAL	EVENING PREP-WORK	DPC	PRE SLEEP
FE-5 NOGUCHI	ARED	ZSR XFER	ZSR DEPLOY	MIDDAY-MEAL	MELFI 3 XFER	CQ2 XFER	CQ BMPOUT INST	CEVIS	MARES XFER	GLOVE	CWCI	PT1I	♦	CWCI	PT2I	D2XS	EVENING PREP-WORK	DPC	PRE SLEEP
FE-6 CREAMER	EMU PREBREATHE	C-LK DPRS	T2	MIDDAY-MEAL	MWA SU	TAGS RPLT2	APXC	MELFI	CAMB PLANT2 S2	EXERCISE ARED	POST EVA W/H2O	BSA INIT	PREP WRK	DPC	PRE SLEEP

TDRS AVAIL
DAY/NIGHT

DAILY ORBIT	3	4	5	6	7	8	9	10	11
ORBIT	1260	1261	1262	1263	1264	1265	1266	1267	

♣UPA FILL ⊕RETURN VCA
♦MPAC/SEED STOW

NOTES

NO UNISOLATED EXERCISE (APFR) (JEF OPS) (ESP-2)

NO UNISOLATED EXERCISE (APFR OPS)

FD05

GMT 04/09/10 (099)
β = −13
MET Day 004

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

FD06

STS-131

CDR POINDEXTER	PRE SLEEP	SLEEP		POST SLEEP	EXERCISE
PLT DUTTON	PRE SLEEP	SLEEP		POST SLEEP	
MS1 MASTRACCHIO	PRE SLEEP	SLEEP	ASPRN	POST SLEEP	
MS2 METCALF-LINDENBURGER	PRE SLEEP	SLEEP		POST SLEEP	MCIU
MS3 WILSON	PRE SLEEP	SLEEP	LOG	POST SLEEP	
MS4 YAMAZAKI	PRE SLEEP	SLEEP		POST SLEEP	XFER UPDAT
MS5 ANDERSON	PRE SLEEP	SLEEP	ASPRN	POST SLEEP	

DAY/NIGHT

ORBIT: 68 69 70 71 72 73 74 75

TDRS: W E Z

ORB ATT: BIAS -XLV -ZVV

NOTES

FD05

GMT 04/09/10 (099)
β = −13
MET Day 004

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

FD06

ISS	ISS CDR KOTOV	PRE SLEEP	SLEEP							POST SLEEP	DPC	PREP WORK	EXERCISE TVIS	
	FE-1 SKVORTSOV	PRE SLEEP	SLEEP							POST SLEEP	DPC	PREP WORK		
	FE-2 CALDWELL	PRE SLEEP	REACT	SLEEP					REACT	POST SLEEP	DPC	PREP WORK	♣	CEVIS*
	FE-3 KORNIENKO	PRE SLEEP	SLEEP							POST SLEEP	DPC	PREP WORK		
	FE-5 NOGUCHI	PRE SLEEP	REACT	SLEEP					REACT	POST SLEEP	PFC ⊕	DPC	PREP WORK	T2
	FE-6 CREAMER	PRE SLEEP	REACT	SLEEP					REACT	D2XS POST SLEEP	DPC	FLEX HOSE	♦	

TDRS AVAIL

DAY/NIGHT

DAILY ORBIT	11	12	13	14	15	16	1	2	3
ORBIT	1268	1269	1270	1271	1272	1273	1274	1275	

NOTES

♣VCA MV N2
⊕POST SLEEP
♦WORF PIVOT
UNINSTALL*

FD06

GMT 04/10/10 (100)
β=−11
MET Day 004

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

STS-131

CDR POINDEXTER	POST SLEEP	IMU	N2-I	CWC S/U & FILL #1		CWC	TNE2-MT	CWC XFER (2)		MEAL	ISP	INST	MPLM XFER	ISP	INST	MPLM XFER	ISP	INST		EVA 2 PROC RVW	ILON	PAO EDU	EVENT	PRE SLEEP	PMC A/G	PRE SLEEP
PLT DUTTON	FI DOUG REVIEW			FOCUSED INSPECTION					SRMS MNVR EVA2	MEAL		FLTR INSP	MPLM XFER		EXERCISE	MPLM XFER			WCS	EVA 2 PROC RVW	PRE SLP	PAO EDU	EVENT	PRE SLEEP		
MS1 MASTRACCHIO				MPLM XFER						MEAL	PAO	EVENT	LIOH&	BIANTT	BSA-T	BSA INIT	TOOL CONFIG		E_LK PREP	EXERCISE		EVA 2 PROC RVW		PRE SLEEP			MASK P/B
MS2 METCALF-LINDENBURGER	FI DOUG REVIEW			FOCUSED INSPECTION					SRMS MNVR EVA2	MEAL			MPLM XFER				TOOL CONFIG		EXERCISE	MPLM XFER		EVA 2 PROC RVW	PRE SLP	PAO EDU	EVENT	PRE SLEEP	
MS3 WILSON	FI DOUG REVIEW			FOCUSED INSPECTION						MEAL	PAO	EVENT	MPLM XFER			EXERCISE		MPLM PIVOT INST		MDK	AEM#	XFER	TAGUP	EVA 2 PROC RVW		PRE SLEEP		
MS4 YAMAZAKI	MDK	WORF XFER			ZSR XFER	ZSR DEPLOY		ER7 XFER		MEAL		ISP INSTALL		ISP INSTALL			ISP INSTALL				XFER	TAGUP	EXERCISE	PRE SLEEP	XFER BRIEF	PRE SLEEP	
MS5 ANDERSON				MPLM XFER						MEAL	PAO	EVENT	LIOH&	BIANTT			TOOL CONFIG		E_LK PREP	COND	CHG/O		EXERCISE	EVA 2 PROC RVW	PRE SLEEP		MASK P/B

DAY/NIGHT

ORBIT: 76 77 78 79 80 81 82 83

TDRS W E Z

ORB ATT: BIAS -XLV -ZVV

#STATUS CHECK

NOTES: **NO EXERCISE** (LCS IMAGING)

FD06

GMT 04/10/10 (100)
β = −11
MET Day 004

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

ISS	ISS CDR KOTOV	♣ / MIDDAY-MEAL / MPLM XFER / PFC / VELO / PREP WORK / DPC / PREP WORK / PRE SLEEP
ISS	FE-1 SKVORTSOV	MIDDAY-MEAL / PFC / PREP WORK / DPC / PREP WORK / PRE SLEEP
ISS	FE-2 CALDWELL	ZSR XFER / ZSR DEPLOY / ⊕ / PFC / MIDDAY-MEAL / MPLM XFER / T2 / ♦ / ® / PREP WORK / DPC / PREP WORK / PRE SLEEP
ISS	FE-3 KORNIENKO	MIDDAY-MEAL / EXERCISE TVIS / PFC / PREP WORK / DPC / PREP WORK / PRE SLEEP
ISS	FE-5 NOGUCHI	WORF XFER / ER7 XFER / MIDDAY-MEAL / ISP INSTALL / ISP INSTALL / ISP INSTALL / EXERCISE ARED / PREP WORK / PRE SLEEP
ISS	FE-6 CREAMER	D2XS / MPLM XFER / S/U / MIDDAY-MEAL / D2XS CAMR / MYO GTHR / MYO SMPL-INS / MYO C12 / MYO C24 / PFC / ARED / EXERCISE CEVIS / VDS / DEACT / PREP WORK / PRE SLEEP

TDRS AVAIL
DAY/NIGHT

DAILY ORBIT	3	4	5	6	7	8	9	10
ORBIT	1276	1277	1278	1279	1280	1281	1282	1283

NOTES

♣EXERCISE TVIS
⊕CMS-CEVIS-INSTALL
♦RETURN VCA
®UPA FILL

NO EXERCISE
(LCS IMAGING)

FD06

GMT 04/10/10 (100)
β = −9
MET Day 005

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

STS-131

CDR POINDEXTER	PRE SLEEP	ISS EXTERNAL SURVEY	SLEEP	FD07	POST SLEEP	PMC A/G	POST SLEEP	ILOFF	INHIB	ADPOST	SLEEP		
PLT DUTTON	PRE SLEEP	SLEEP	POST SLEEP	HYG BRK/ HATCH CLS	EVA PREP								
MS1 MASTRACCHIO	10.2 DPRS MASK P/B	PRE SLEEP	ISS A/L Campout at 10.2 psi SLEEP	POST SLEEP	14.7 RPRS	10.2 DPRS HYG BRK/PREBREATHE	EVA PREP						
MS2 METCALF-LINDENBURGER	PRE SLEEP	SLEEP	POST SLEEP										
MS3 WILSON	PRE SLEEP	SLEEP	LOG	POST SLEEP									
MS4 YAMAZAKI	PRE SLEEP	SLEEP	LOG	POST SLEEP									
MS5 ANDERSON	10.2 DPRS MASK P/B	PRE SLEEP	ISS A/L Campout at 10.2 psi SLEEP	POST SLEEP	14.7 RPRS	10.2 DPRS HYG BRK/PREBREATHE	EVA PREP						

DAY/NIGHT

ORBIT: 84 85 86 87 88 89 90 91

TDRS W E Z

ORB ATT: BIAS -XLV -ZVV

NOTES

FD06

GMT 04/10/10 (100)
β = −9
MET Day 005

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

FD07

ISS	ISS CDR KOTOV	PRE SLEEP	SLEEP					POST SLEEP	DPC	PREP WORK	SHTR CL / CUCL	VELO
ISS	FE-1 SKVORTSOV	PRE SLEEP	SLEEP					POST SLEEP	DPC	PREP WORK		
ISS	FE-2 CALDWELL	PRE SLEEP	REACT	SLEEP			REACT	POST SLEEP	HYG BRK/ HATCH CLS	EVA PREP		
ISS	FE-3 KORNIENKO	PRE SLEEP	SLEEP					POST SLEEP	DPC	PREP WORK		
ISS	FE-5 NOGUCHI	PRE SLEEP	REACT	SLEEP			BISP / REACT	POST SLEEP	DPC	PREP WORK	♣TEST / DOUG / COBL	CEVIS
ISS	FE-6 CREAMER	PRE SLEEP	REACT	SLEEP			REACT	POST SLEEP	TEST ⊕	DPC	PREP WORK	EXERCISE ARED

TDRS AVAIL
DAY/NIGHT

DAILY ORBIT	11	12	13	14	15	1	2	3
ORBIT	1284	1285	1286	1287	1288	1289	1290	1291

NOTES

♣VCA MV N2
⊕POST SLEEP

FD07

GMT 04/11/10 (101)
β=−6
MET Day 005

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

STS-131

CDR POINDEXTER	POST SLEEP	MPLM XFER	P/TV 07 S/U	P/TV07 EVA	IMU	MEAL	CWC #2	INIT	P/TV07 EVA	CWC	TERM	CWC	XFER	P/TV07 EVA		P/TV07	MPLM XFER	EXERCISE		ILON	PRE SLEEP		
PLT DUTTON	EVA PREP	EMU	PURGE	EMU PREBREATHE	C-LK DPRS	P-DPS	EVA 2 SSRMS SUPPORT									P-RPS	C-LK	RPRS	POST EVA W/H2O		EXERCISE		PRE SLEEP
MS1 MASTRACCHIO	EVA PREP	EMU	PURGE	EMU PREBREATHE	C-LK DPRS	P-DPS	EGRS	S1 ATA RMV AND H/O	ATA TIEDOWN CETA	P1 RAD GF BEAM	AGB REL	EVA 2 (6:30) ATA INSTL S1	S1 ATA CNCTRS	CETA ATA REL	A/L MMOD INST	INGRS	P-RPS	C-LK	RPRS	POST EVA W/H2O			PRE SLEEP
MS2 METCALF-LINDENBURGER	MCIU		MPLM XFER	EVA IVA SPPRT PREP	EVA IVA SUPPORT												EXERCISE		MPLM XFER				PRE SLEEP
MS3 WILSON	MDK	EXERCISE		MPLM XFER	DOUG	S/U	EVA 2 SSRMS SUPPORT										TESS XFER		MPLM XFER		XFER	TAGUP	MDK	AEM#	PRE SLEEP
MS4 YAMAZAKI	XFER	UPDAT	MPLM XFER	EXERCISE	MPLM XFER				MEAL		GLACIER XFER	HRF2 RACK RCFG	MPLM XFER				TESS XFER		MPLM XFER	PRE SLEEP	XFER	TAGUP	XFER BRIEF		PRE SLEEP
MS5 ANDERSON	EVA PREP	EMU	PURGE	EMU PREBREATHE	C-LK DPRS	P-DPS	EGRS	S1 ATA RMV AND H/O	ATA TIEDOWN CETA	P1 RAD GF BEAM	AGB REL	EVA 2 (6:30) ATA INSTL S1	APFR RE-LOCATE	CETA ATA REL	A/L MMOD INST	INGRS	P-RPS	C-LK	RPRS	POST EVA W/H2O			PRE SLEEP

DAY/NIGHT

ORBIT: 91 92 93 94 95 96 97 98 99

TDRS W E Z

ORB ATT: BIAS -XLV -ZVV

NOTES

NO UNISOLATED EXERCISE (APFR OPS)

NO UNISOLATED EXERCISE (APFR OPS)

NO UNISOLATED EXERCISE (ESP-2)

#STATUS CHECK

FD07

GMT 04/11/10 (101)
β = −6
MET Day 005

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

ISS

ISS CDR KOTOV	VELO	EXERCISE TVIS		MIDDAY-MEAL					MPLM XFER			PREP WORK	DPC	PREP WORK	PRE SLEEP			
FE-1 SKVORTSOV				MIDDAY-MEAL			EXERCISE TVIS					PREP WORK	DPC	PREP WORK	PRE SLEEP			
FE-2 CALDWELL	EVA PREP	EMU PURGE	EMU PREBREATHE	C-LK DPRS	T2	MIDDAY-MEAL		KID XFER	KUBIK KID INST	EDR KID INST	EXERCISE ARED		C-LK RPRS	POST EVA W/H2O	PREP WORK	DPC♣	WORK PREP	PRE SLEEP
FE-3 KORNIENKO				MIDDAY-MEAL						EXERCISE TVIS		PREP WORK	DPC	PREP WORK	PRE SLEEP			
FE-5 NOGUCHI	CEVIS	EXERCISE ARED		MPLM XFER	MIDDAY-MEAL			GLA	MPLM XFER			CAP PREP WORK	DPC	PREP WORK	PRE SLEEP			
FE-6 CREAMER	EXERCISE ARED	CEVIS		MPLM XFER	MIDDAY-MEAL	BSA-T	CWCI PTT1		CWCI PTT2		MPLM XFER	GLOVE	MPLM XFER	⊕	BSA INIT	D2XS PREP WORK	DPC	PREP WORK	PRE SLEEP

TDRS AVAIL
DAY/NIGHT

DAILY ORBIT	3	4	5	6	7	8	9	10	11
ORBIT		1292	1293	1294	1295	1296	1297	1298	1299

⊕UPA FILL ♣RETURN VCA

NOTES

NO UNISOLATED EXERCISE (APFR OPS)

NO UNISOLATED EXERCISE (APFR OPS)

NO UNISOLATED EXERCISE (ESP-2)

FD07

GMT 04/11/10 (101)
β = −4
MET Day 006

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

STS-131

CDR POINDEXTER	PMC A/G; PRE SLEEP	ISS EXTERNAL SURVEY; SLEEP	FD08; POST SLEEP	
PLT DUTTON	PRE SLEEP	SLEEP	POST SLEEP	IL OFF
MS1 MASTRACCHIO	PRE SLEEP	SLEEP	ASPRN	POST SLEEP
MS2 METCALF-LINDENBURGER	PRE SLEEP	SLEEP	POST SLEEP	
MS3 WILSON	PRE SLEEP	SLEEP	LOG	POST SLEEP
MS4 YAMAZAKI	PRE SLEEP	SLEEP	POST SLEEP	
MS5 ANDERSON	PRE SLEEP	SLEEP	ASPRN	POST SLEEP

DAY/NIGHT

ORBIT: 99 100 101 102 103 104 105 106 107

TDRS W E Z

ORB ATT: BIAS -XLV -ZVV

NOTES

FD07

GMT 04/11/10 (101)
β = −4
MET Day 006

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

FD08

ISS	ISS CDR KOTOV	PRE SLEEP		SLEEP							POST SLEEP	PREP WORK	DPC	
	FE-1 SKVORTSOV	PRE SLEEP		SLEEP							POST SLEEP	PREP WORK	DPC	
	FE-2 CALDWELL	PRE SLEEP	REACT	SLEEP						SLEEP ♣	POST SLEEP	PREP WORK	DPC	FLY WHL
	FE-3 KORNIENKO	PRE SLEEP		SLEEP							POST SLEEP	PREP WORK	DPC	
	FE-5 NOGUCHI	PRE SLEEP	REACT	SLEEP							POST SLEEP	PREP WORK	DPC	
	FE-6 CREAMER	PRE SLEEP	REACT	SLEEP						SLEEP	POST SLEEP	D2XS PREP WORK	DPC	S/U D2XS
	TDRS AVAIL													
	DAY/NIGHT													
	DAILY ORBIT	11	12	13	14	15	16	1	2			3		
	ORBIT	1299	1300	1301	1302	1303	1304	1305	1306			1307		

♣UPA FILL

NOTES

FD08

GMT 04/12/10 (102)
β = −1
MET Day 006

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

STS-131

CDR POINDEXTER	GTHR DMP EQUIP	OFF DUTY	EXERCISE	OFF DUTY	MEAL	CWC #3	INIT	N2-I	MPLM XFER	CTE RM	CWC	XFER	MPLM XFER	N2-T	MPLM XFER	EVA 3 PROC RVW	PAO	EVENT	XFER	TAGUP	PRE SLP		
PLT DUTTON	ILOAD	IMFU	SRMS MNVR MPLM	OFF DUTY	EXERCISE	OFF DUTY	MEAL	H/O*	MNVR^	CONID	P/TV 09 S/U	GLACT	PHOTO	CONDT	TERM	DUMP PWR	MNVR%	DC	H/O&	EVA 3 PROC RVW	PAO	EVENT	ILON	PRE SLEEP
MS1 MASTRACCHIO	POST SLEEP	OFF DUTY	EXERCISE	OFF DUTY	MEAL	BSA-T	LIOHT	BIANST &	ERCA SWAP	TOOL CONFIG	E_LK PREP	EVA 3 PROC RVW	PRE SLEEP										
MS2 METCALF-LINDENBURGER	PSTSLP	MCIMU	SRMS MNVR MPLM	OFF DUTY	EXERCISE	OFF DUTY	MEAL	ERCA RTRV	MPLM XFER	TOOL CONFIG	ERCA STOW	EVA 3 PROC RVW	PAO	EVENT	PRE SLEEP								
MS3 WILSON	PSTSLP	GLACR	MDK	XFER	UPDAT	EXERCISE	OFF DUTY	MEAL	MDK	MARES-STOWAGE CONFIG	EVA 3 PROC RVW	PAO	EVENT	AEM#	MDK	PRE SLEEP							
MS4 YAMAZAKI	POST SLEEP	OFF DUTY	EXERCISE	MEAL	JAXA	EVENT	MPLM XFER	MLF GLCR XFER	GLCR@	MPLM XFER	GLACR	MPLM XFER	PRE	SLEEP	XFER	TAGUP	PRE SLEEP	XFER BRIEF					
MS5 ANDERSON	POST SLEEP	OFF DUTY	EXERCISE	OFF DUTY	MEAL	LIOHT	BIANST &	ERCA SWAP	TOOL CONFIG	E_LK PREP	EVA 3 PROC RVW	PRE SLEEP											

DAY/NIGHT

ORBIT: 107 108 109 110 111 112 113 114 115

TDRS W E Z

ORB ATT: BIAS -XLV -ZVV | BIAS -XLV -ZVV DUMP | BIAS -XLV -ZVV

NOTES:
*CMG to STS
^DUMP
%DOCKED TEA
@DOOR LOCK
&STS to CMG
#STATUS CHECK
NO EXERCISE
(ATT RATE SETTLING)

FD08

GMT 04/12/10 (102)
β = −1
MET Day 006

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

ISS	ISS CDR KOTOV	OFF DUTY; VELO; EXERCISE TVIS; MIDDAY-MEAL; PMC; PREP WORK; DPC; PRE SLEEP
ISS	FE-1 SKVORTSOV	VELO; MIDDAY-MEAL; PREP WORK; DPC; PRE SLEEP
ISS	FE-2 CALDWELL	GSC; T2; EXERCISE ARED; ♣; MIDDAY-MEAL; MPLM XFER; GSC; ⊕; MPLM XFER; ♦; ®; ♥; PREP WORK; Δ; DPC; PRE SLEEP
ISS	FE-3 KORNIENKO	MIDDAY-MEAL; VELO; PREP WORK; DPC; PRE SLEEP
ISS	FE-5 NOGUCHI	EXERCISE ARED; CEVIS; PMC; MIDDAY-MEAL; JAXA EVENT; PCS P/D; SMP XFR RVW; MLF GLCR XFER; BOOT INSTALL; CUPOLA PANEL INSTALL; PREP WORK; DPC; PRE SLEEP
ISS	FE-6 CREAMER	CEVIS; EXERCISE ARED; D2XS CAMR; MIDDAY-MEAL; MARES-STOWAGE CONFIG; PREP WORK; DPC; DEACT; PRE SLEEP

TDRS AVAIL
DAY/NIGHT

DAILY ORBIT	3	4	5	6	7	8	9	10	11
ORBIT	1307	1308	1309	1310	1311	1312	1313	1314	1315

NOTES

♣VCA MV N2
⊕TOCA ANLYS
♦EHS-TOCA WWB-REPLACE
®UPA FILL
♥TOCA DATA XFER
ΔRETURN VCA

NO EXERCISE
(ATT RATE SETTLING)

FD08

GMT 04/12/10 (102) 17 18 19 20 21 22 23 04/13 01 02 03 04

β = 1 06 07 08 09 10 11 12 13 14 15 16 17 18

MET Day 007

STS-131

CDR POINDEXTER	PRESLP	PMC OCA	PRE SLEEP	ISS EXTERNAL SURVEY	SLEEP	FD09	POST SLEEP	PMC A/G	POST SLEEP									
PLT DUTTON	PRE SLEEP			SLEEP			POST SLEEP		HYG BRK/ HATCH CLS	EVA	PREP							
MS1 MASTRACCHIO	PRE SLEEP	MASK P/B	10.2 DPRS	PRE SLEEP	ISS A/L Campout at 10.2 psi	SLEEP		POST SLEEP	14.7 RPRS	HYG BRK/PREBREATHE	10.2 DPRS	EVA	PREP					
MS2 METCALF-LINDENBURGER	PRE SLEEP				SLEEP			POST SLEEP										
MS3 WILSON	PRE SLEEP				SLEEP		LOG	POST SLEEP										
MS4 YAMAZAKI	PRE SLEEP				SLEEP		LOG	POST SLEEP										
MS5 ANDERSON	PRE SLEEP	MASK P/B	10.2 DPRS	PRE SLEEP	ISS A/L Campout at 10.2 psi	SLEEP		POST SLEEP	14.7 RPRS	HYG BRK/PREBREATHE	10.2 DPRS	EVA	PREP					

DAY/NIGHT

ORBIT 115 116 117 118 119 120 121 122 123

TDRS W E Z

ORB ATT BIAS -XLV -ZVV

NOTES

FD09

GMT 04/12/10 (102)
β = 1
MET Day 007

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

ISS	ISS CDR KOTOV	PRE SLEEP																						FD09 POST SLEEP	PREP WORK
	FE-1 SKVORTSOV	PRE SLEEP																						POST SLEEP	PREP WORK
	FE-2 CALDWELL	PRE SLEEP																					SLEEP	POST SLEEP	HYG BRK/ HATCH CLS	EVA	PREP
	FE-3 KORNIENKO	PRE SLEEP																						POST SLEEP	PREP WORK
	FE-5 NOGUCHI	PRE SLEEP																						POST SLEEP	PREP WORK
	FE-6 CREAMER	PRE SLEEP			PMC																		SLEEP	POST SLEEP	TEST	POST SLEEP	PREP WORK
	TDRS AVAIL																										
	DAY/NIGHT																										
	DAILY ORBIT	11	12			13				14				15				1			2			3			4
	ORBIT	1315	1316			1317				1318				1319				1320			1321			1322			1323

NOTES

FD09

GMT 04/13/10 (103)
β=3
MET Day 007

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

STS-131

CDR POINDEXTER	POST SLEEP	ILOF	INHIB	PAD	MPLM XFER	P/TV 07 S/U	P/TV07 EVA	IMU	MEAL	CWC #4	INIT	P/TV07 EVA	N2-I	CTWCM	CXWCER	P/TV07 EVA	N2-T	EXERCISE	PTV07	MPLM XFER							
PLT DUTTON	EVA PREP	EMU	PURGE	EMU PREBREATHE	C-LK DPRS	P-DPS	SSRMS ATA RETRIEVE					SSRMS LWAPA RETRIEVE							P-RPS	C-LK	RPRS	POST EVA W/H2O		EXERCISE			
MS1 MASTRACCHIO	EVA PREP	EMU	PURGE	EMU PREBREATHE	C-LK DPRS	P-DPS	EGRS	AGB STOW	PLB SETUP	ATA INSTL ON LMC	FGB RMV & PLB CLNUP	LWAPA RETRV	CP13 ETVCG LIGHT		S1 RAD GF BEAM		WIFEX RE-LOCATE	CLNUP	INGRS	P-RPS	C-LK	RPRS	POST EVA W/H2O				
MS2 METCALF-LINDENBURGER	POST SLEEP	MCIU	EXERCISE		EVA IVA SPPRT PREP	EVA IVA SUPPORT																MPLM XFER					
MS3 WILSON	POST SLEEP	MDK	MPLM XFER	DOUG	S/U	SSRMS ATA RETRIEVE						SSRMS LWAPA RETRIEVE									EXERCISE		MPLM XFER		AEM#	MDK	
MS4 YAMAZAKI	POST SLEEP	XFER	UPDAT	MPLM XFER					MEAL	LIOH TRANSFER		MPLM XFER					NS XFER	MPLM XFER				EXERCISE		PRE SLEEP			
MS5 ANDERSON	EVA PREP	EMU	PURGE	EMU PREBREATHE	C-LK DPRS	P-DPS	EGRS	AGB STOW	PLB SETUP	ATA INSTL ON LMC	SSRMS SETUP	LWAPA RETRV	SPDM CLPA1 INSTL		SPDM EP1 COVER RMV		SSRMS CLNUP	CLNUP	INGRS	P-RPS	C-LK	RPRS	POST EVA W/H2O				

EVA 3 (6:30)

DAY/NIGHT

ORBIT: 123 124 125 126 127 128 129 130 131

TDRS W E Z

ORB ATT: BIAS -XLV -ZVV

NOTES: **NO UNISOLATED EXERCISE** (ESP2 OPS) (APFR OPS)

STATUS CHECK#

FD09

GMT 04/13/10 (103)
β=3
MET Day 007

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

ISS	ISS CDR KOTOV	DPC ♣ ⊕ ♦ VELO EXERCISE TVIS MIDDAY-MEAL MPLM XFER PREP WORK DPC PREP
ISS	FE-1 SKVORTSOV	DPC VELO MIDDAY-MEAL PMC PREP WORK DPC PREP
ISS	FE-2 CALDWELL	EVA PREP EMU PURGE EMU PREBREATHE C-LK DPRS MIDDAY-MEAL PMC MPLM XFER T2 CEVIS C-LK RPRS POST EVA W/H2O INSPT PREP WORK DPC PREP
ISS	FE-3 KORNIENKO	DPC MIDDAY-MEAL VELO PMC PREP WORK DPC PREP
ISS	FE-5 NOGUCHI	DPC DOUG CBL EXERCISE ARED SSRMS ATA RETRIEVE MPLM XFER MIDDAY-MEAL MPLM XFER MYCO PREP GLA CEVIS PREP WORK DPC PREP
ISS	FE-6 CREAMER	DPC ® RFTA ACCESS WRS RFTA R&R RFTA COUTOSE WRS RFTA FILL RFTA ACCESS WRS RFTA QD CNFG RFTA COUTOSE MIDDAY-MEAL CWCI PT1 NS NS CWCI PT2 EXERCISE CEVIS EXERCISE ARED GLOVE MPLM XFER PREP WORK DPC PREP
	TDRS AVAIL	
	DAY/NIGHT	
	DAILY ORBIT	4 5 6 7 8 9 10 11 12
	ORBIT	1323 1324 1325 1326 1327 1328 1329 1330

NOTES

♣JPM/LAB/CUP-SHTR-CL
⊕C&T-CUCU-INH
♦COL-LWAPA-INH
®VCA MV N2

NO UNISOLATED EXERCISE
(ESP2 OPS) (APFR OPS)

FD09

GMT 04/13/10 (103)
β=6
MET Day 008

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

FD10

STS-131

CDR	POINDEXTER	PRE SLEEP; PMC A/G; PRE SLEEP; SLEEP; POST SLEEP
PLT	DUTTON	WCS^; PRE SLEEP; MYCO*; PRE SLEEP; SLEEP; MYCO; SMPL; POST SLEEP
MS1	MASTRACCHIO	PRE SLEEP; MYCO*; PRE SLEEP; SLEEP; MYCO; SMPL; ASPRN; POST SLEEP
MS2	METCALF-LINDENBURGER	PRE SLEEP; SLEEP; POST SLEEP
MS3	WILSON	PRE SLEEP; SLEEP; LOG; POST SLEEP
MS4	YAMAZAKI	PRE SLEEP; XFER TFAGUP; PRE SLEEP; XFER BRIEF; MYCO*; PRE SLEEP; SLEEP; MYCO; SMPL; POST SLEEP
MS5	ANDERSON	PRE SLEEP; SLEEP; ASPRN; POST SLEEP

DAY/NIGHT

ORBIT: 131 132 133 134 135 136 137 138

TDRS: W E Z

ORB ATT: BIAS -XLV -ZVV

NOTES: ^COMPACT *REVIEW

FD09

GMT 04/13/10 (103)
β=6
MET Day 008

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

FD10

ISS	ISS CDR KOTOV	PREP	PREP	WORK	PRE SLEEP																				POST SLEEP
ISS	FE-1 SKVORTSOV	PREP	PREP	WORK	PRE SLEEP																				POST SLEEP
ISS	FE-2 CALDWELL	PREP	♣	⊕	PRE SLEEP																			SLEEP	POST SLEEP
ISS	FE-3 KORNIENKO	PREP	PREP	WORK	PRE SLEEP																				POST SLEEP
ISS	FE-5 NOGUCHI	PREP	XFER	TAGUP	AVDS	PRE SLEEP			MYCO*	PRE SLEEP														MYCO	MELFI	POST SLEEP
ISS	FE-6 CREAMER	PREP		D2XS		PRE SLEEP			MYCO*	PRE SLEEP														MYCO	SLEEP	POST SLEEP

TDRS AVAIL

DAY/NIGHT

DAILY ORBIT	12	13	14	15	16	1	2	3	4
ORBIT	1331	1332	1333	1334	1335	1336	1337	1338	

NOTES

♣RETURN VCA
⊕PREP WORK

FD10

GMT 04/14/10 (104)
β=8
MET Day 008

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

STS-131

CDR POINDEXTER	POST SLEEP	N2-I	IMU	CIWC#5	CTWC	TERM	PWR #1 FILL	N2-T	PWR	XFER	CWCXFER	MEAL	CREW PHOTO	CREW CONF	OFF DUTY	EXERCISE	OFF DUTY	PFC OCA	OFF DUTY
PLT DUTTON	POST SLEEP	PTV08	S/U	P/TV08 EXT SRVY	PTV08	MPLM XFER	FLTR INSP	MEAL	CREW PHOTO	CREW CONF	OFF DUTY	PFC OCA	OFF DUTY						
MS1 MASTRACCHIO	POST SLEEP	MPLM XFER	PGT C/O	EVA TOOL RESTOW	MEAL	CREW PHOTO	CREW CONF	OFF DUTY	EXERCISE	OFF DUTY									
MS2 METCALF-LINDENBURGER	POST SLEEP	MPLM XFER	MEAL	CREW PHOTO	CREW CONF	OFF DUTY	EXERCISE	OFF DUTY	PFC OCA										
MS3 WILSON	POST SLEEP	XFER	UPDAT	MPLM XFER	MPLM PIVOT REMOVE	MPLM RACK CONFIG	MEAL	CREW PHOTO	CREW CONF	OFF DUTY	PFC OCA	OFF DUTY	EXERCISE	OFF DUTY					
MS4 YAMAZAKI	POST SLEEP	MDK	MPLM XFER	MPLM RACK CONFIG	MEAL	CREW PHOTO	CREW CONF	OFF DUTY	EXER-CISE										
MS5 ANDERSON	POST SLEEP	MPLM XFER	N2N-CBM-CPA-INSTALL	MEAL	CREW PHOTO	CREW CONF	OFF DUTY	PFC OCA	OFF DUTY	EXERCISE									

DAY/NIGHT

ORBIT: 139 140 141 142 143 144 145 146

TDRS W E Z

ORB ATT: BIAS -XLV -ZVV

NOTES

FD10

GMT 04/14/10 (104)
β = 8
MET Day 008

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

ISS	ISS CDR KOTOV	POST SLEEP	PREP WORK	DPC										MIDDAY-MEAL	CREW WTO	PHO	CREW CONF	OFF DUTY				EXERCISE TVIS		VELO
ISS	FE-1 SKVORTSOV	POST SLEEP	PREP WORK	DPC			VELO		PPC					MIDDAY-MEAL	CREW WTO	PHO	CREW CONF							
ISS	FE-2 CALDWELL	POST SLEEP	PREP WORK	DPC	♣	EXERCISE CEVIS		T2		⊕	NLP RMV	GSC	EVA TOOL RESTOW	MIDDAY-MEAL	CREW WTO	PHO	CREW CONF	VID SU	BISE S/U	BISE OPS	GSC ♦		SLM S/U	SLM SVY / XFER
ISS	FE-3 KORNIENKO	POST SLEEP	PREP WORK	DPC				PPC			VELO			MIDDAY-MEAL	CREW WTO	PHO	CREW CONF							
ISS	FE-5 NOGUCHI	POST SLEEP		PPC	DPC	S/U	PREP WORK					N2N-CBM-CPA-INSTALL		MIDDAY-MEAL	CREW WTO	PHO	CREW CONF			BISE		CEVIS		T2
ISS	FE-6 CREAMER	POST SLEEP		PW	DPC	PREP	CGBACK						EVA CAMR FLASH CNFG / EVA TOOL RESTOW	MIDDAY-MEAL	CREW WTO	PHO	CREW CONF	MPLM GLA SCAVENGE			PPC	EXERCISE ARED		CEVIS

TDRS AVAIL
DAY/NIGHT

DAILY ORBIT	4	5	6	7	8	9	10	11
ORBIT	1339	1340	1341	1342	1343	1344	1345	1346

NOTES

♣VCA MV N2
⊕EHS-FMK-DEPLOY
♦RETURN VCA

FD10

GMT 04/14/10 (104)
β=11
MET Day 009

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

STS-131

CDR POINDEXTER	OFF DUTY			PRE	SLEEP	PAO EDU	EVENT	PRE SLEEP		PMC A/G	PRE SLEEP													SLEEP
PLT DUTTON	EXERCISE			PRE	SLEEP	XFER	TAG UP	PRE SLEEP																SLEEP
MS1 MASTRACCHIO	OFF DUTY			PRE	SLEEP	PFC OCA		PRE SLEEP																SLEEP
MS2 METCALF-LINDENBURGER	OFF DUTY			PRE	SLEEP	PAO EDU	EVENT	PRE SLEEP																SLEEP
MS3 WILSON	OFF DUTY			MDK	AEM#	PAO EDU	EVENT	PRE SLEEP																SLEEP
MS4 YAMAZAKI	EXER-CISE	OFF	DUTY	PFC OCA	PRE	SLEEP	XFER	TAG UP	XFER BRIEF		PRE SLEEP													SLEEP
MS5 ANDERSON	OFF DUTY			COND	CHG/O	PAO EDU	EVENT	PRE SLEEP																SLEEP

DAY/NIGHT

ORBIT: 147 148 149 150 151 152 153 154

TDRS W E Z

ORB ATT: BIAS -XLV -ZVV

NOTES: #STATUS CHECK

FD10

GMT 04/14/10 (104)
β = 11
MET Day 009

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

ISS	ISS CDR KOTOV	VELO	PREP WORK	DPC	PREP WORK	PRE SLEEP	SLEEP	
	FE-1 SKVORTSOV		PREP WORK	DPC	PREP WORK	PRE SLEEP	SLEEP	
	FE-2 CALDWELL	PPC	PREP WORK	DPC	PREP WORK	PRE SLEEP	SLEEP	
	FE-3 KORNIENKO		PREP WORK	DPC	PREP WORK	PRE SLEEP	SLEEP	
	FE-5 NOGUCHI	T2	PREP WORK	DPC	PREP WORK / DEACT	PRE SLEEP	SLEEP	
	FE-6 CREAMER	CEVIS	PREP WORK	DPC	PREP WORK	PRE SLEEP	SLEEP	

TDRS AVAIL

DAY/NIGHT

DAILY ORBIT	12	13	14	15	1	2	3	4
ORBIT	1347	1348	1349	1350	1351	1352	1353	1354

NOTES

FD11

GMT 04/15/10 (105)
β = 13
MET Day 009

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

STS-131

CDR POINDEXTER	POST SLEEP; XFER; UPDAT; MDDK XFER; IMU; N2-I; EXERCISE; MEAL; MNR2-LNT; MDDK XFER; MPLC@#; MUA; APCU$; FAREL; WELL
PLT DUTTON	POST SLEEP; POST EVA EMU RCNFG; EVA XFER TO STS; MEAL; MDDK XFER; PTV06; SETUP; P/TV06; OBSS*; FAREL; WELL
MS1 MASTRACCHIO	POST SLEEP; POST EVA EMU RCNFG; EVA XFER TO STS; MEAL; MDDK XFER; EXERCISE; STS 02 P/B TEARDOWN; FAREL; WELL; HTCH CL
MS2 METCALF-LINDENBURGER	POST SLEEP; MCIU; MDDK XFER; EPO RVW; EPO S/U; EPO SRMS; EPO SSRMS; STOW; MEAL; PGSC XFER; MDDK XFER; PRLA; OBSS*; EXERCISE; FAREL; WELL; HTCH CL
MS3 WILSON	LOG; POST SLEEP; MDDK; POST; SLEEP; SMP XFR RVW; POST SLEEP; MERLIN PACK; EXERCISE; MRLN; MDDK XFER; MEAL; DOUG; S/U; SSRMS MPLM GRAPL; SSRMS MPLM UNINSTL; SSRMS MPLM UNGRPL; XFER BRIEF; FAREL; WELL; RNDZ^
MS4 YAMAZAKI	LOG; POST SLEEP; P/TV 09 S/U; MRLN; VIDEO; EXERCISE; EPO SRMS; EPO SSRMS; MEAL; SSRMS MPLM GRAPL; SSRMS MPLM UNINSTL; SSRMS MPLM UNGRPL; XFER BRIEF; PTV05; DEACT; PTV04; S/U; FAREL; WELL; P/TV04
MS5 ANDERSON	LOG; POST SLEEP; MPLM; EGRS; MPLM; DEACT; MPLM VEST DEMATE; MPLM VEST DEPRESS; MEAL; EXERCISE; COND; CHG/O; FAREL; WELL; RNDZ^

DAY/NIGHT

ORBIT 154 155 156 157 158 159 160 161 162

TDRS W E Z

ORB ATT BIAS -XLV -ZVV — BIAS -XLV -ZVV

NOTES

NO EXERCISE (MPLM UNINSTL/ BOLT UNLOAD)

NO T2 (BACKOFF TO BERTH)

@SHELL HTR ACT
#ACT $DEACT
*MNVR TO UNDOCK
TOOLS C/O^

FD11

GMT 04/15/10 (105)
β = 13
MET Day 009

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

ISS	ISS CDR KOTOV	POST SLEEP; PREP; DPC; VELO; EXERCISE TVIS; MIDDAY-MEAL; DCB RVW; DCB PACK; FARE; WELL; HTCH CL
ISS	FE-1 SKVORTSOV	POST SLEEP; PREP; DPC; VELO; MIDDAY-MEAL; FARE; WELL; HTCH CL
ISS	FE-2 CALDWELL	PHTST; RELACETP; POST SLEEP; PREP; DPC♣; T2; CEVIS; ⊕; MIDDAY-MEAL; DIET; CWCI; PT1; CWCI; PT2; IMAK UNPACK; FARE; WELL; HTCH CL
ISS	FE-3 KORNIENKO	POST SLEEP; PREP; DPC; VELO; MIDDAY-MEAL; FARE; WELL; HTCH CL
ISS	FE-5 NOGUCHI	REACT; POST SLEEP; EXERCISE CEVIS; PW; DPC; PW; MPLM; EGRS; MPLM; DEACT; MPLM VEST DEMATE; MPLM VEST DEPRESS; N2 CBM DEMATE; MIDDAY-MEAL; VCA; EXERCISE ARED; FARE; WELL; HTCH CL
ISS	FE-6 CREAMER	RELACETP; POST SLEEP; PREP; DPC; SMP XFR RVW; MERLIN PACK; POST; EVAN; RCNFG; EXERCISE ARED; CEVIS; MIDDAY-MEAL; N2 CBM DEMATE; DCB RVW; DCB PACK; DCB; XFER; STS O2 P/B TEARDOWN; FARE; WELL; HTCH CL

TDRS AVAIL
DAY/NIGHT

DAILY ORBIT	4	5	6	7	8	9	10	11	12
ORBIT		1355	1356	1357	1358	1359	1360	1361	1362

NOTES

♣VCA MV N2
#XFER FAM
⊕RETURN VCA

NO EXERCISE (MPLM UNINSTL/ BOLT UNLOAD)
NO T2 (BACKOFF TO BERTH)

FD11

GMT 04/15/10 (105)
β = 16
MET Day 010

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

STS-131

CDR POINDEXTER		C/L CAMR INST	M01W	H2O#	PRE SLEEP	PMC A/G	PRE SLEEP	SLEEP										
PLT DUTTON	EXERCISE				PRE SLEEP			SLEEP										
MS1 MASTRACCHIO	HTCH CL	LEAK CHECK			PRE SLEEP			SLEEP										
MS2 METCALF-LINDENBURGER	HTCH CL	LEAK CHECK			PRE SLEEP			SLEEP										
MS3 WILSON	RNDZ^			BRIC INJCT 1		PSLP	PRE SLEEP	SLEEP										
MS4 YAMAZAKI	P/TV 04	PTV04	C/L CAMR INST	AEM%	MDK	PRE SLEEP		SLEEP										
MS5 ANDERSON	RNDZ^				PRE SLEEP			SLEEP										

DAY/NIGHT

ORBIT: 162 163 164 165 166 167 168 169 170

TDRS: W E Z

ORB ATT: BIAS -XLV -ZVV

NOTES:
^TOOLS C/O #NOM CNFG
%STATUS CHECK

FD11

GMT 04/15/10 (105)
β = 16
MET Day 010

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

ISS	ISS CDR KOTOV	HTCH CL	PREP WORK	DPC	PRE SLEEP		SLEEP
ISS	FE-1 SKVORTSOV	HTCH CL	PREP WORK	DPC	PRE SLEEP		SLEEP
ISS	FE-2 CALDWELL	HTCH CL	PREP WORK	DPC	PRE SLEEP	REACT	SLEEP
ISS	FE-3 KORNIENKO	HTCH CL	PREP WORK	DPC	PRE SLEEP		SLEEP
ISS	FE-5 NOGUCHI	HTCH CL	PREP WORK	DPC	PRE SLEEP	REACT	SLEEP
ISS	FE-6 CREAMER	HTCH CL	PREP WORK / BPSMU STOW	DPC	PRE SLEEP	REACT	SLEEP

TDRS AVAIL

DAY/NIGHT

DAILY ORBIT	12	13	14	15	16	1	2	3	4
ORBIT	1362	1363	1364	1365	1366	1367	1368	1369	1370

NOTES

FD12

GMT 04/16/10 (106)
β = 18
MET Day 010

18 19 20 21 22 23 011/00 01 02 03 04 05 06
05 06 07 08 09 10 11 12 13 14 15 16

STS-131

| | | |

FD12

GMT 04/16/10 (106)
β = 18
MET Day 010

18 19 20 21 22 23 011/00 01 02 03 04 05 06
05 06 07 08 09 10 11 12 13 14 15 16

ISS	ISS CDR KOTOV	POST SLEEP	PREP WORK	DPC				MIDDAY-MEAL				VELO	EXERCISE TVIS				PWORK
ISS	FE-1 SKVORTSOV	POST SLEEP	PREP WORK	DPC	VELO			MIDDAY-MEAL									PWORK
ISS	FE-2 CALDWELL	PHTST SLEEP POST SLEEP	PREP WORK	DPC			FFQ	MIDDAY-MEAL	DIET		CEVIS	T2					PWORK
ISS	FE-3 KORNIENKO	POST SLEEP	PREP WORK	DPC				MIDDAY-MEAL				VELO					PWORK
ISS	FE-5 NOGUCHI	POST SLEEP	PREP WORK	DPC	DUCT RMV	P/TV UNDOCK		MIDDAY-MEAL	AUDIO	FFQ		PBA*					PWORK
ISS	FE-6 CREAMER	SLEEP POST SLEEP	PREP WORK	DPC		PMA2 S/U	PMA2 PMA2	MIDDAY-MEAL	PMA2		FFQ	PMA2 PT3					PWORK

UNDOCK*

TDRS AVAIL
DAY/NIGHT

DAILY ORBIT	4	5	6	7	8	9	10	11	12
ORBIT	1370	1371	1372	1373	1374	1375	1376	1377	1378

♣EHS-FMK-STOW
*PBA RELOCATE

NOTES

***UNDOCK 10/21:40**

FD12

GMT 04/16/10 (106)
β=21
MET Day 011

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

STS 131

CDR POINDEXTER	EXER-CISE; PRE SLEEP; PMC A/G; PRE SLEEP	SLEEP
PLT DUTTON	OBSS BERTH; RMS; PWRDN; PRE SLEEP	SLEEP
MS1 MASTRACCHIO	APCU*; PRE SLEEP; APCU@; PRE SLEEP	SLEEP
MS2 METCALF-LINDENBURGER	OBSS BERTH; RMS; PWRDN; PRE SLEEP; OCA^; PRE SLEEP	SLEEP
MS3 WILSON	MDDK; PRE SLEEP	SLEEP
MS4 YAMAZAKI	PRE SLEEP; LDRI D/L; PRE SLEEP	SLEEP
MS5 ANDERSON	PRE SLEEP	SLEEP

DAY/NIGHT

ORBIT: 178 179 180 181 182 183 184 185 186

TDRS W E Z

GND — DFR

ATTITUDE -ZLV -XVV

NOTES *ACT @DEACT ^48 Mbps

FD13

GMT 04/17/10 (107)
β=23
MET Day 011

18 05 06 07 08 09 10 11 12 13 14 15 16
19 20 21 22 23 012/00 01 02 03 04 05 06

STS 131

CDR POINDEXTER	POST SLEEP; W/B&; POST SLEEP; IMU; FCS C/O; RCS; FIRE; PILOT OPS; D/O BRIEF; MEAL; PAO; EVENT; COMM2; MNVR; DUMP; CABIN STOW; L-1 COMM CHK; EXERCISE; FESI; CABIN STOW
PLT DUTTON	POST SLEEP; FILTER CLEAN; FCS C/O; RCS; FIRE; PILOT OPS; D/O BRIEF; MEAL; PAO; EVENT; ENTRY; VIDEO; SEUP; SIMO INIT; CABIN STOW; SIMO TERM; COND; INIT; CABIN STOW; COND; TERM; COND; INIT; EXER
MS1 MASTRACCHIO	POST SLEEP; CABIN STOW; EXERCISE; D/O BRIEF; MEAL; PAO; EVENT; CABIN STOW; APCU*; CABIN STOW; APCU@; OIU/A; CSTOW IN
MS2 METCALF-LINDENBURGER	POST SLEEP; OCA$; FCS C/O; RCS; FIRE; CABIN STOW; D/O BRIEF; MEAL; PAO; EVENT; OCA*; CABIN STOW; EXERCISE; CABIN STOW
MS3 WILSON	LOG; POST SLEEP; MDK; BRIC INJCT 2; CABIN STOW; D/O BRIEF; MEAL; PAO; EVENT; CABIN STOW; EXERCISE; CABIN STOW
MS4 YAMAZAKI	LOG; POST SLEEP; FCS C/O P/TV; SSV; DEACT; CABIN STOW; NLP^; PAO S/U; D/O BRIEF; MEAL; PAO; EVENT; ENTRY; VIDEO; SEUP; CABIN STOW; EXERCISE; CABIN STOW
MS5 ANDERSON	LOG; POST SLEEP; EXERCISE; CABIN STOW; D/O BRIEF; MEAL; PAO; EVENT; CABIN STOW

DAY/NIGHT

ORBIT: 186 187 188 189 190 191 192 193 194

TDRS: W E Z

GND: —MLA; —DFR -MLA; —DFR; —DFR; —DFR -MLA; —DFR —MLA; —DFR —MLA

ATTITUDE: -ZLV -XVV; FCS/RCS; -ZLV -XVV; BIAS -ZLV -YVV

NOTES: &HEATER ACT; $2 Mbps; ^TERM; *48 Mbps; *ACT @DEACT

FD13

GMT 04/17/10 (107)
β=25
MET Day 012

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

STS 131

CDR POINDEXTER	L-1 COMM CHK; MNVR; -ZLV; FEST-T; ENTRY^; PRE SLEEP; PMC A/G; PRE SLEEP	SLEEP
PLT DUTTON	EXER; CONDITION; CABIN STOW; PRE SLEEP	SLEEP
MS1 MASTRACCHIO	CABIN STOW; WLESS; DEACT; MADS%; KU STOW; PRE SLEEP	SLEEP
MS2 METCALF-LINDENBURGER	CABIN STOW; PGSC STOW PART I; PRE SLEEP	SLEEP
MS3 WILSON	CABIN STOW; MDK; AEM#; PRE SLEEP	SLEEP
MS4 YAMAZAKI	CABIN STOW; PRE SLEEP	SLEEP
MS5 ANDERSON	CABIN STOW; ERG STOW; PRE SLEEP	SLEEP

DAY/NIGHT

ORBIT: 194 195 196 197 198 199 200 201

TDRS W E Z

GND: DFR — MLA

ATTITUDE: -ZLV -XVV

NOTES:
^COOLING CNFG
%POWER ON
#STATUS CHECK

FD14

GMT 04/18/10 (108)
β=28
MET Day 012

18 05 19 06 20 07 21 08 22 09 23 10 013/00 11 01 12 02 13 03 14 04 15 05 16 06

STS 131

CDR	POINDEXTER	POST SLEEP; PMC A/G; POST SLEEP; GRPB; PWRUP; IMU ALIGN & VERIF; -XSI; DEORBIT PREP
PLT	DUTTON	POST SLEEP; GRPB; PWRUP; POST SLEEP; MADS^; DEORBIT PREP
MS1	MASTRACCHIO	POST SLEEP; OCAC; STOW; DEORBIT PREP
MS2	METCALF-LINDENBURGER	POST SLEEP; SAMPL; DEORBIT PREP
MS3	WILSON	LOG; POST SLEEP; PGSC STOW PART II; WATCH; DEORBIT PREP
MS4	YAMAZAKI	LOG; POST SLEEP; MSDL; DTK@; AEM#; WATCH; DEORBIT PREP
MS5	ANDERSON	LOG; POST SLEEP; TEPC; PWRDN; GIRA; STOW; WATCH; DEORBIT PREP

D/O BURN*

LANDING*

DAY/NIGHT

ORBIT: 202 203 204 205 206 207 208 209

TDRS W E Z

GND: MLA MLA DFR DFR DFR DFR MLA DFR MLA DFR

ATTITUDE: -ZLV -XVV IMU BIAS -XSI COMM ENTRY

NOTES: ^STRAIN GAGE ENABLE
#MUFFLER STOW
@ENTRY PREP

***D/O TIG 13/01:12**
***KSC LANDING 13/02:14**

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DETAILED TIMELINE

DETAILED TIMELINE

STS-131/19A FD01

GMT Date 04/05 (095) | TDRS W E Z | D/N | ORB 1 2 3 | MET Day 000 | STS ATT

Activities prior to 0/02:30 are in the ASCENT and POST INSERTION CHECKLISTS. The Orbiter should be in a -ZLV -XVV attitude upon entering the Flight Plan.

FD01 EZ ACTIVITIES:
- PCS 1(2) CONFIG (ORB OPS, ECLS)
  - Config to PCS 1
- SMOKE DETN CKT TEST (ORB OPS, ECLS)
- LAMP TEST (ORB OPS, EPS)
- CSA-CP BATTERY CHANGEOUT (ORB OPS, CSA-CP)
- CSA-CP CHECKOUT AND ZERO CALIBRATION OPS (ORB OPS, CSA-CP)
- D2Xs, DATE/TIME SET (P/TV, REF PROC)
- DTV, VTR CLOCK SET (P/TV, REF PROC) if not performed for PLBD rec
- OCAC Filter Inspection

CDR POINDEXTER	PLT DUTTON	MS2 METCALF-LINDENBURGER	NOTES
ON-ORBIT OMS BURN (ORB OPS, OMS)	ON-ORBIT OMS BURN (ORB OPS, OMS)	PGSC ACT PGSC NETWORK (A. SETUP) OCA SETUP PGSC HARD DISK LATE UPDATE WINDECOM OPS (A. ACT) WORLDMAP INITIALIZATION COLOR PRNTR UNSTOW & ASSMBLE COLOR PRINTER WARMUP & SELF-TEST (ORB OPS, PGSC)	UPLINK β21 + Mask UPDATE ORBITAL MNVR PAD
< NC1 TIG (00/02:49:49)			
MNVR (TRK) -ZLV -XVV TG=2 BV=3 OM=0 A1/AUTO/VERN, Init TRK	P/TV01 VIDEO SETUP (P/TV, SCENES)		
ELEVON PARK, GNC 201 (ORB OPS, GNC)			
STS-131 DAP A(B) CONFIGURATIONS (ORB OPS, DAP TABLES) Load DAPs			
AFT CONTROLLER C/O (ORB OPS, GNC)			
PRIORITY PWRDN GRP B (ORB PKT, PRIOR PWRDN) Steps 2,5,6(Single G2) & 12 (IMU 3)	PRIORITY PWRDN GRP B (ORB PKT, PRIOR PWRDN) Steps 2,5,6(Single G2) & 12 (IMU 3)		

Time scale: 11:00, 12:00, 13:00, 14:00; MET 00:00, 01:00, 02:00, 03:00, 04:00

STS ATT: ASCENT, -ZLV -XVV, NC1, -ZLV -XVV

STS-131/19A FD01

GMT Date 04/05 (095) | W E Z | D/N | ORB | MET Day 000 | STS ATT

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

00:00
01:00
02:00
03:00
04:00
11:00
12:00
13:00
14:00

ASCENT
-ZLV
-XVV
NC1
-ZLV
-XVV

1
2
3

Activities prior to 0/02:30 are in the ASCENT and POST INSERTION CHECKLISTS.

ON-ORBIT OMS BURN
(ORB OPS, OMS)

OCAC SETUP
(ORB OPS, CREW SYS)

SSP OIU PWR - OIU 1 ON (tb-UP)
On MCC GO: A15 APCU 1 OUTPUT - ON
CONV - ON

On MCC GO: A15 APCU 1 CONV - OFF
OUTPUT - OFF
SSP1 OIU PWR - OFF (tb-bp)

PGSC ACT
PGSC NETWORK (A. SETUP)
OCA SETUP
PGSC HARD DISK LATE UPDATE
WINDECOM OPS (A. ACT)
WORLDMAP INITIALIZATION
COLOR PRNTR UNSTOW & ASSMBLE
COLOR PRINTER WARMUP & SELF-TEST
(ORB OPS, PGSC)

STL INIT (ASSY OPS, PAYLOADS)
P/TV01 VIDEO SETUP
(P/TV, SCENES)

GIRA INSTALLATION
(ORB OPS, ECLS)

SHUTTLE EMER EYEWASH SETUP
After GIRA INSTALL, unstow and fill one drink container; label "FOR EYE RINSE ONLY". Attach on or near galley.

TFL 199

MPLM ENVIRONMENT CHECK

TFL 188

STS-131/19A FD01

GMT Date 04/05 (095) | TDRS W E Z | D/N | ORB 3 4 5 6 | MET Day 000 | STS ATI -ZLV -XVV

CDR POINDEXTER | **PLT** DUTTON | **MS2** METCALF-LINDENBURGER | NOTES

04:00

PRIORITY PWRDN GRP B (ORB PKT, PRIOR PWRDN)
Steps 2,5,6(Single G2) & 12 (IMU 3)

IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)

APU FD1 RECONFIGS [A]

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRIORITY PWRDN GRP B (ORB PKT, PRIOR PWRDN)
Steps 2,5,6(Single G2) & 12 (IMU 3)

UMBILICAL WELL TPS CAMERA
IMAGERY DOWNLOADING
(ORB OPS, PGSC)

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

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PGSC ACT
PGSC NETWORK (A. SETUP)
OCA SETUP
PGSC HARD DISK LATE UPDATE
WINDECOM OPS (A. ACT)
WORLDMAP INITIALIZATION
COLOR PRNTR UNSTOW & ASSMBLE
COLOR PRINTER WARMUP & SELF-TEST
(ORB OPS, PGSC)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

15:00

05:00

O6 √UHF MODE - OFF
L9 PAYLOAD STATION A/G (two) - OFF
PRIVATE MEDICAL CONFERENCE VIA A/G 2

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

[A] R2 BLR PWR(three)-OFF
A12 APU HTR GG/FU PMP(three)-A AUTO

16:00

06:00

17:00

07:00

SLEEP | SLEEP | SLEEP

18:00

08:00

STS-131/19A FD01

GMT Date 04/05 (095) | W | TDRS E | Z | D/N | ORB | MET Day 000 | STS ATI

MS1 MASTRACCHIO

04:00
WLES ACTIVATION & CHECKOUT
(ORB OPS, WLE SENSORS)

IMAGE FILE XFER (PHOTO/TV, D2Xs)
Perform DCS FILE TO HARD DRIVE
for ET Handheld Photo

HD DIGITAL VIA CC
(Cue Card, DIGITAL PLAYBACK)
ET Handheld Video
KU TDRE (04:36-04:56)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

05:00

06:00

07:00
SLEEP

08:00

MS3 WILSON

PGSC ACT
PGSC NETWORK (A. SETUP)
OCA SETUP
PGSC HARD DISK LATE UPDATE
WINDECOM OPS (A. ACT)
WORLDMAP INITIALIZATION
COLOR PRNTR UNSTOW & ASSMBLE
COLOR PRINTER WARMUP & SELF-TEST
(ORB OPS, PGSC)
SDBI 1634 SLEEP-WAKE ACTIGRAPHY
(ORB OPS, SDBI)
A. DON ACTIWATCH
MERLIN STATUS CK (Cue Card)
GLACIER STATUS CK (Cue Card)
STL STATUS CK (Cue Card)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

MS4 YAMAZAKI

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

AEM MUFFLER INSTALL
Retrieve Mufflers from MF71C
AEM UNIT#1 CK (Cue Card)
AEM UNIT#2 CK (Cue Card)
SDBI 1634 SLEEP-WAKE ACTIGRAPHY
(ORB OPS, SDBI)
A. DON ACTIWATCH
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

MS5 ANDERSON

TISSUE EQUIVALENT PROPORTIONAL
COUNTER (TEPC) (A. POWER ON)
(ORB OPS, CREW SYSTEMS)

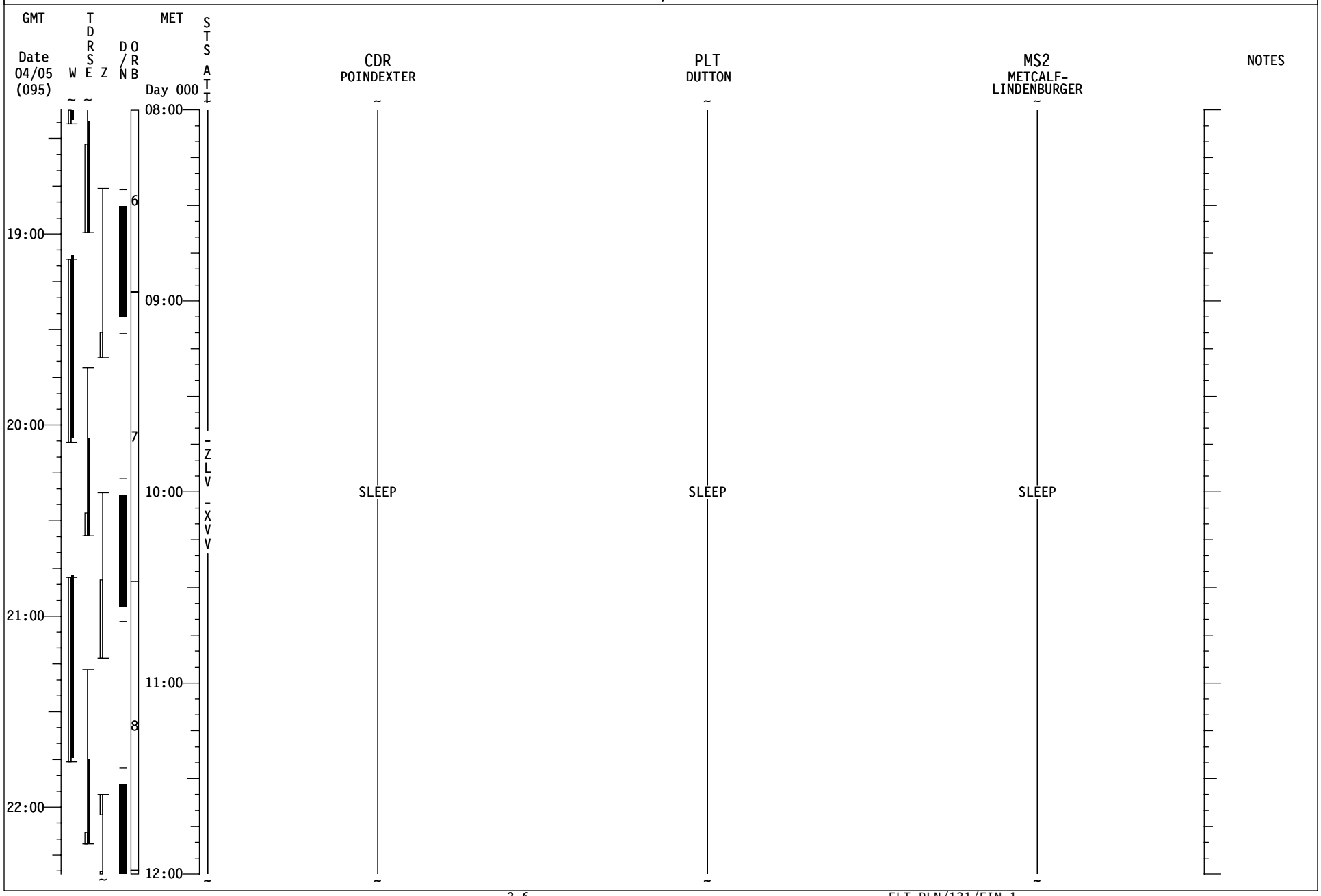
INSTALL BLEED ORIFICE [B]
SDBI 1634 SLEEP-WAKE ACTIGRAPHY
(ORB OPS, SDBI)
A. DON ACTIWATCH
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

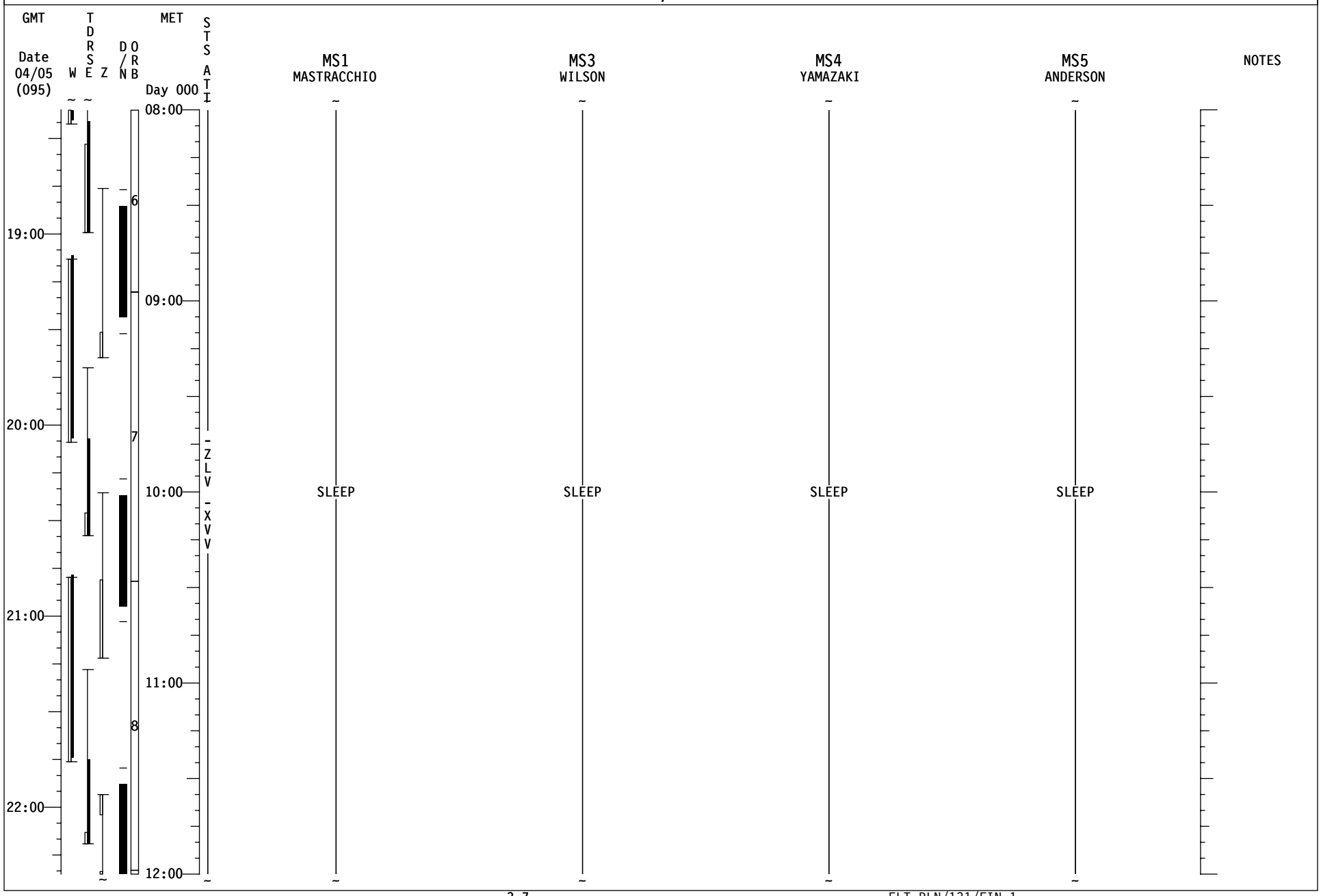
[B] MO69M Insert Bleed Orifice Assembly into LEH O2 8 QD
LEH O2 8 vlv-OP

NOTES

STS-131/19A FD01



STS-131/19A FD01



STS-131/19A FD02

GMT Date 04/05 (095) | W | TDRS E | Z | D/N | ORB | MET Day 000 | STS ATI

CDR POINDEXTER | PLT DUTTON | MS2 METCALF-LINDENBURGER | NOTES

12:00

23:00

9

13:00

SLEEP | SLEEP | SLEEP

FD02 EZ ACTIVITIES:
OCAC Filter Inspection
TEPC (STATUS CHECK)
(ORB OPS, CREW SYSTEMS)
Hard reboot all PGSCs not shut down overnight, except: STS1 (OCA ROUTER), STS5 (RPOP2) and STS6 (WLES)

-ZLV -XVV

00:00

14:00

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) √HUM SEP for H2O accumulation | POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) | POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

10

01:00

15:00

ON-ORBIT OMS BURN (ORB OPS, OMS) | ON-ORBIT OMS BURN (ORB OPS, OMS) | ON-ORBIT OMS BURN (ORB OPS, OMS) | UPDATE ORBITAL MNVR PAD

11

NC2

02:00

< NC2 TIG (00/15:40:47)

MNVR (TRK) -ZLV -XVV
TG=2 BV=3 OM=0
A1/AUTO/VERN, Init TRK | POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) | POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

16:00

STS-131/19A FD02

GMT Date 04/05 (095) | W | T D R S E | Z | D / N | O R B | MET Day 000 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

12:00 | 13:00 | 14:00 | 15:00 | 16:00 | 23:00 | 00:00 | 01:00 | 02:00

-ZLV -XVV

NC2

9 | 10 | 11

MS1 MASTRACCHIO	MS3 WILSON	MS4 YAMAZAKI	MS5 ANDERSON
SLEEP	SLEEP	SLEEP	SLEEP
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	SLEEP LOGBOOK (SDBI 1634)	SLEEP LOGBOOK (SDBI 1634)	SLEEP LOGBOOK (SDBI 1634)
	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
L17 Check MCIU filter screen			

STS-131/19A FD02

GMT Date 04/06 (096) | W | T D R S E Z | D/N | O R B | MET Day 000 | STS ATI

CDR POINDEXTER | **PLT** DUTTON | **MS2** METCALF-LINDENBURGER | NOTES

16:00 — 17:00 — 18:00 — 19:00 — 20:00 — 03:00 — 04:00 — 05:00 — 06:00

ORB: 11 — 12 — 13 — 14

STS ATI: -ZLV -XVV — BIAS +YSI

CDR

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

RCS/OMS POD HTR RECONFIG [A]

EMU CHECKOUT
(EVA, CHECKOUTS)
Support Comm Checks

MNVR (TRK) BIAS +YSI (Stbd Survey)
TG=4 BV=5 P=0 Y=40 OM=230
A14/AUTO/VERN, OBSS UNBERTH cmplt, Init TRK

EXERCISE

PLT

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

RMS PWRUP
(PDRS, RMS PWRUP)

RMS CHECKOUT
(PDRS, RMS C/O)

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

OBSS UNBERTH
(PDRS, OBSS OPERATIONS)
Prior to Step 3:
√A15 APCU OUTPUT - OFF

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

MS2

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

RMS PWRUP
(PDRS, RMS PWRUP)

RMS CHECKOUT
(PDRS, RMS C/O)

OBSS UNBERTH
(PDRS, OBSS OPERATIONS)
Prior to Step 3:
√A15 APCU OUTPUT - OFF

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

STS-131/19A FD02

GMT Date 04/06 (096) | W | TDRS E | Z | D/N | ORB | MET Day 000 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

16:00

SSP1 OIU PWR - OIU 1 ON (tb-UP)
On MCC GO: A15 APCU 1 OUTPUT - ON
CONV - ON
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

FC MONITORING SYS (FCMS) OPS (ORB OPS, EPS)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

TFL 199

MPLM PRESSURE CHECK

03:00

On MCC GO: A15 APCU 1 CONV - OFF
OUTPUT - OFF
SSP1 OIU PWR - OFF (tb-bp)
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

TFL 188

17:00

CYCLE ERGOMETER OPS (ORB OPS, CREW SYS) ERGOMETER SETUP

CYCLE ERGOMETER OPS (ORB OPS, CREW SYS) ERGOMETER SETUP

EMU CHECKOUT PREP (EVA, AIRLOCK CONFIG)

MERLIN STATUS CK (Cue Card)
GLACIER STATUS CK (Cue Card)
STL STATUS CK (Cue Card)

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

EMU CHECKOUT PREP (EVA, AIRLOCK CONFIG)

04:00

18:00

EMU CHECKOUT (EVA, CHECKOUTS) Perform for 2 EMUs

EMU CHECKOUT (EVA, CHECKOUTS) Perform for 2 EMUs

05:00

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

EXERCISE

19:00

EVA PREP FOR TRANSFER TO ISS (EVA, AIRLOCK CONFIG)

EVA PREP FOR TRANSFER TO ISS (EVA, AIRLOCK CONFIG)

06:00

MEAL

20:00

STS-131/19A FD02

GMT Date 04/06 (096) | W | TDRS E | Z | D/N | ORB | MET Day 000 | STS ATI

CDR POINDEXTER | **PLT** DUTTON | **MS2** METCALF-LINDENBURGER | NOTES

20:00

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

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

14

07:00

MNVR (TRK) BIAS +XSI (Nose Cap)
TG=4 BV=5 P=330 Y=0 OM=270
A14/AUTO/VERN, RCC SURVEY-STBD cmplt, Init TRK

OBSS LDRI/IDC RCC SURVEY - NOSE CAP
(PDRS, OBSS OPERATIONS)

21:00

BIAS +XSI

MEAL

MEAL

08:00

OBSS LDRI/IDC RCC SURVEY - PORT
(PDRS, OBSS OPERATIONS)

15

MNVR (TRK) BIAS -YSI (Port Survey)
TG=4 BV=5 P=0 Y=323 OM=265
A14/AUTO/VERN, RCC SURVEY-PORT Step 3 cmplt, Init TRK

22:00

OBSS LDRI/IDC RCC SURVEY - PORT
(PDRS, OBSS OPERATIONS)

MEAL

09:00

BIAS -YSI

23:00

16

10:00

MNVR (TRK) -ZLV -XVV
TG=2 BV=3 OM=0
A14/AUTO/VERN, RCC Survey-Port Step 12 cmplt, Init TRK

00:00

OBSS BERTH
(PDRS, OBSS OPERATIONS)

OBSS BERTH
(PDRS, OBSS OPERATIONS)

STS-131/19A FD02

GMT Date 04/06 (096) | W | TDRS E | Z | D/N | ORB | MET Day 000 | STS ATI

MS1 MASTRACCHIO	MS3 WILSON	MS4 YAMAZAKI	MS5 ANDERSON	NOTES
EVA PREP FOR TRANSFER TO ISS (EVA, AIRLOCK CONFIG)	OBSS LDRI/IDC RCC SURVEY - STBD (PDRS, OBSS OPERATIONS)	MEAL	EVA PREP FOR TRANSFER TO ISS (EVA, AIRLOCK CONFIG)	
	OBSS LDRI/IDC RCC SURVEY - NOSE CAP (PDRS, OBSS OPERATIONS)	OBSS LDRI/IDC RCC SURVEY - NOSE CAP (PDRS, OBSS OPERATIONS)	CWC-I FILL (ORB OPS, ECLS) Parts A-C FILL SETUP, FILL HOSE PURGE, and PURGE ASSEMBLY TEARDOWN.	
		OBSS LDRI/IDC RCC SURVEY - PORT (PDRS, OBSS OPERATIONS)		
MEAL	MEAL		MEAL	
	MIDDECK TRANSFER PREP		MIDDECK TRANSFER PREP	

Time scale: 20:00, 21:00, 22:00, 23:00, 00:00; 07:00, 08:00, 09:00, 10:00

ORB: 14, 15, 16

STS ATI: BIAS+XSI, BIAS-YSI

STS-131/19A FD02

GMT Date 04/06 (096) | W | TDRS E | Z | D/N | ORB | MET Day 001 | STS ATI

CDR POINDEXTER | **PLT** DUTTON | **MS2** METCALF-LINDENBURGER | NOTES

00:00

R2 BLR CNTLR/HTR (three) - B
CRYO O2 TK HTR SNSR CK
(ORB OPS, EPS)

OBSS BERTH
(PDRS, OBSS OPERATIONS)

OBSS BERTH
(PDRS, OBSS OPERATIONS)

11:00

17

01:00

-ZLV

-XVV

EXERCISE

12:00

IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

02:00

P/TV08 EXTERNAL SRVY (SETUP) Step 1
P/TV08 EXTERNAL SRVY (OPS)
(P/TV, SCENES) Item 1, OMS Pod Srvy
Best Lighting (01:53-02:35)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

18

P/TV08 EXTERNAL SURVEY (DEACTIVATION)
(P/TV, SCENES)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

13:00

ON-ORBIT +X RCS BURN, MM 202
(ORB OPS, RCS)

ON-ORBIT +X RCS BURN, MM 202
(ORB OPS, RCS)

ON-ORBIT +X RCS BURN, MM 202
(ORB OPS, RCS)

UPDATE ORBITAL MNVR PAD

NC3

03:00

< NC3 TIG (01/03:03:51)

MNVR (TRK) -ZLV -XVV
TG=2 BV=3 OM=0
A1/AUTO/VERN, Init TRK

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

DOCKING MECHANISM INITIALIZATION
DOCKING MECHANISM POWERUP
DOCKING RING EXTENSION
DOCKING MECHANISM POWERDOWN
(RNDZ, APDS)

-ZLV

FUTURE LOAD MNVR (TRK) -ZLV +YVV (Dump)
TG=2 BV=3 OM=270
A1/AUTO/VERN (1/14:00), Init TRK

19

14:00

-XVV

DIGITAL VIA VTR
(Cue Card, DIGITAL PLAYBACK)
ET Forward Window Mini-Cam
KU TDRE (03:32-04:09), Alpha Stop at 03:41

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

04:00

STS-131/19A FD02

GMT Date 04/06 (096) | W | TDRS E | Z | D/N | ORB | MET Day 001 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

00:00

MIDDECK TRANSFER PREP

EXERCISE

11:00

SHUTTLE CONDENSATE COLLECTION
(ORB OPS, ECLS)
Perform SETUP using hardware in MF57C

TFL 192

17

01:00

C/L CAMR INSTALL
(P/TV, C/L CAMR)
Setup & Align C/L Camera

RNDZ TOOLS CHECKOUT
(RNDZ, RNDZ TOOLS)

C/L CAMR INSTALL
(P/TV, C/L CAMR)
Setup & Align C/L Camera

RNDZ TOOLS CHECKOUT
(RNDZ, RNDZ TOOLS)

-ZLV-XVV

12:00

FILTER CLEANING
(IFM, SCHEDULED MAINTENANCE)

DIGITAL VIA VTR
(Cue Card, DIGITAL PLAYBACK)
LDRI Surveys
KU TDRE (01:33-02:31)
Alpha Stop at 02:04

02:00

P/TV09 MIDDECK PAYLOADS
(P/TV, SCENES)
SETUP
OPS, Item 3 for both AEMs
DEACTIVATION

TFL 188

FUEL CELL PURGE - MANUAL
(ORB OPS, EPS)

18

13:00

AEM UNIT#1 CK (Cue Card)
AEM UNIT#2 CK (Cue Card)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EXERCISE

NLP VACCINE-8 ACTIVATION
(ASSY OPS, PAYLOADS)
Activate GAPs A-P (MF710)

NC3

03:00

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MERLIN STATUS CK (Cue Card)
GLACIER STATUS CK (Cue Card)
STL STATUS CK (Cue Card)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

DOCKING MECHANISM INITIALIZATION
DOCKING MECHANISM POWERUP
DOCKING RING EXTENSION
DOCKING MECHANISM POWERDOWN
(RNDZ, APDS)

-ZLV-XVV

19

14:00

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

04:00

STS-131/19A FD02

GMT Date 04/06 (096) | W | TDRS E | Z | D/N | ORB | MET Day 001 | STS ATI

CDR POINDEXTER | PLT DUTTON | MS2 METCALF-LINDENBURGER | NOTES

04:00 — 06 √UHF MODE - OFF
L9 PAYLOAD STATION A/G (two) - OFF
PRIVATE MEDICAL CONFERENCE VIA A/G 2

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

15:00 — 19

05:00 — 20

16:00 — -ZLV

06:00 — -XVV

17:00 — 21

07:00 — SLEEP | SLEEP | SLEEP

18:00 — 22

08:00

STS-131/19A FD02

GMT Date 04/06 (096) | W | TDRS E | Z | D/N | ORB | MET Day 001 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

04:00 — PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
RECNFG OCA DOWNLINK RATE (PL MAX) [B]
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

[B] After LDRI Playback Complete: RECONFIGURE OCA DOWNLINK RATE (PL MAX) (ORB OPS, PGSC) Part C (Omit Step 4)

15:00 — 19

16:00 — 20

17:00 — 21

18:00 — 22

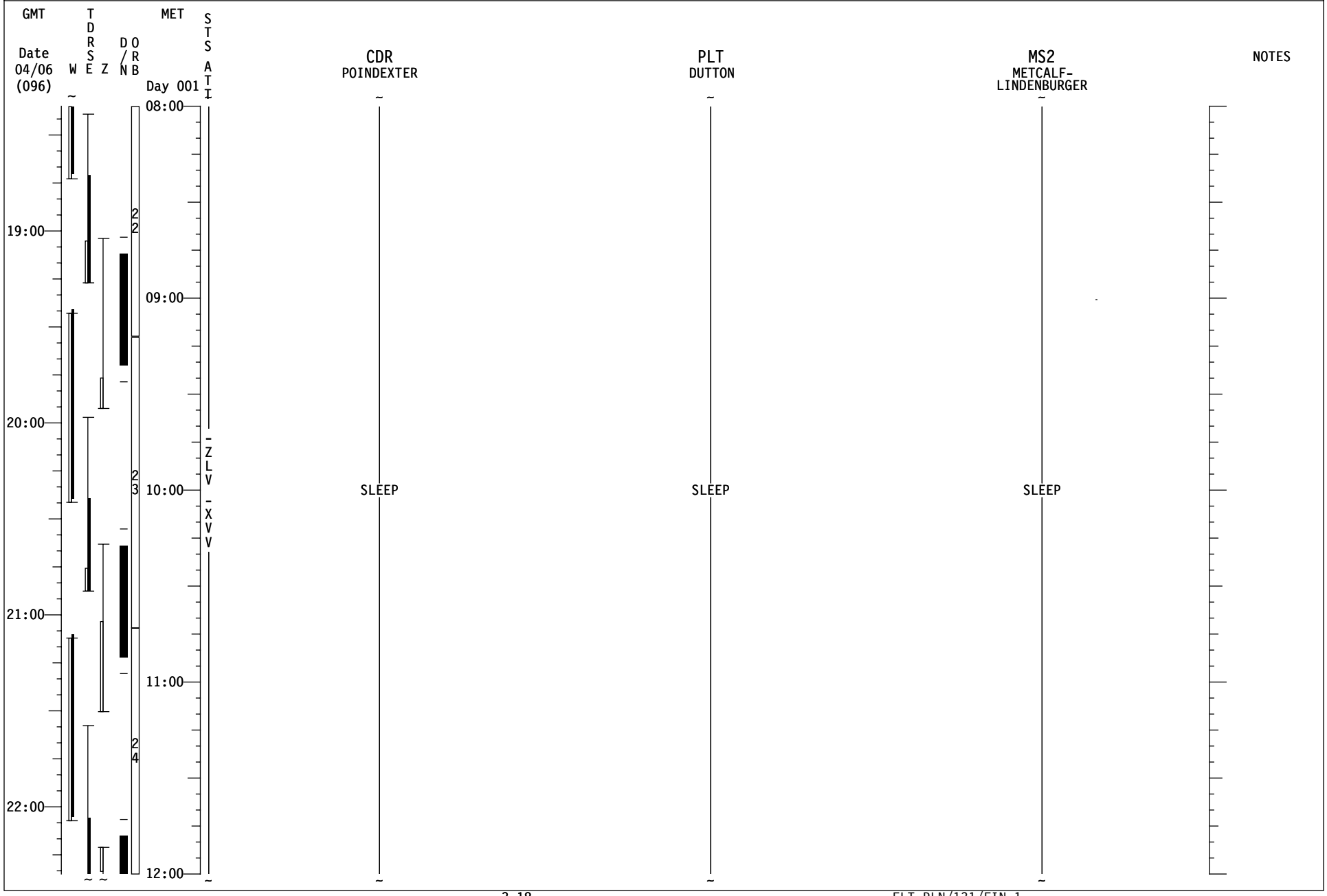
05:00

06:00 — -ZLV -XVV

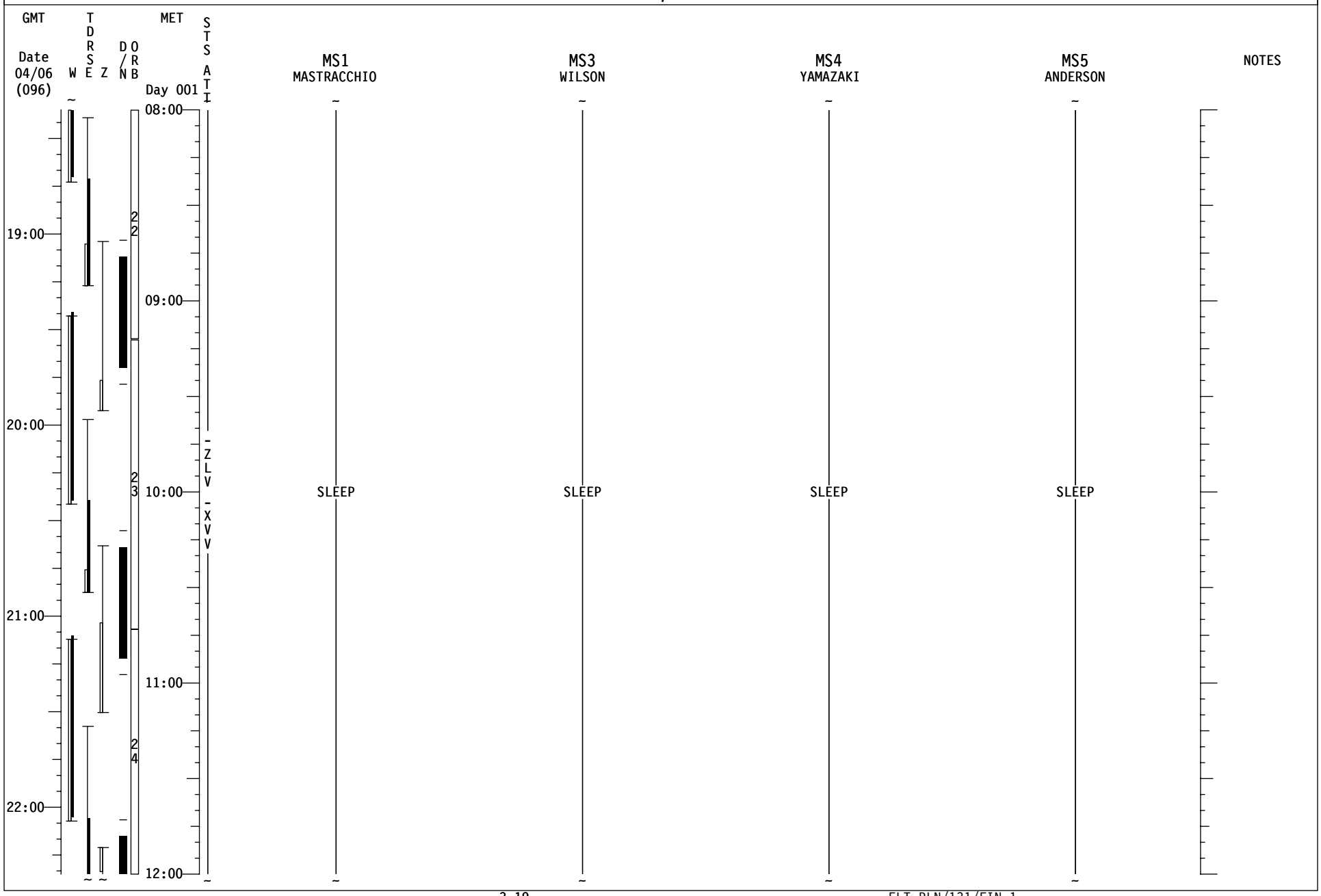
07:00 — SLEEP | SLEEP | SLEEP | SLEEP

08:00

STS-131/19A FD02



STS-131/19A FD02



STS-131/19A FD03

GMT Date 04/06 (096) | W | T D R S E | Z | D/N | O R B | MET Day 001 | STS ATI

CDR POINDEXTER | PLT DUTTON | MS2 METCALF-LINDENBURGER | NOTES

12:00 — 23:00 — 13:00 — 00:00 — 14:00 — 01:00 — 15:00 — 02:00 — 16:00

24 — 25 — 26 — 27

-ZLV -XVV

SLEEP (CDR) | SLEEP (PLT) | SLEEP (MS2)

FD03 EZ ACTIVITIES:
TEPC (ORB OPS, CREW SYSTEMS)
Check Status
OCAC Filter Inspection
Hard reboot all PGSCs not shut down overnight, except: STS1 (OCA ROUTER), STS5 (RPOP2) and STS6 (WLES)

< FUT MNVR INIT (1/14:00 - Supply/Waste Water Dump)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
√HUM SEP for H2O accumulation

TRANSITION to RNDZ C/L at MET 1/15:45

-ZLV +YVV

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

IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)
PRIORITY PWRUP GRP B (ORB PKT, PRIOR PWRDN) Steps 12 (IMU 3),6 (Triple G2),5
RENDEZVOUS TIMELINE (RNDZ, RENDEZVOUS T/L)

RCS/OMS POD HTR RECONFIG A
PRIORITY PWRUP GRP B (ORB PKT, PRIOR PWRDN) Steps 12 (IMU 3),6 (Triple G2),5
RENDEZVOUS TIMELINE (RNDZ, RENDEZVOUS T/L)

SSP1 OIU PWR - OIU 1 ON (tb-UP)
On MCC GO: A15 APCU 1 OUTPUT - ON
CONV - ON
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

TFL 199

MPLM PRESSURE CHECK

STS-131/19A FD03

GMT Date 04/06 (096) | W | T D R S E | Z | D/N | O R B | MET Day 001 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

24 | 25 | 26 | 27

12:00 | 13:00 | 14:00 | 15:00 | 16:00 | 23:00 | 00:00 | 01:00 | 02:00

-ZLV-XVV

SLEEP | SLEEP | SLEEP | SLEEP

SUPPLY/WASTE WATER DUMP (Init)
(ORB OPS, ECLS)
Ref. MSG XXX

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP LOGBOOK (SDBI 1634)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP LOGBOOK (SDBI 1634)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP LOGBOOK (SDBI 1634)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

-ZLV+YVV

SUPPLY/WASTE WATER DUMP (Term)
(ORB OPS, ECLS)
Ref. MSG XXX

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

RECONFIGURE OCA DOWNLINK RATE (Ch. 2)
(ORB OPS,PGSC) Part D then A (Omit step 4)
RENDEZVOUS TIMELINE
(RNDZ, RENDEZVOUS T/L)

STS-131/19A FD03

GMT Date 04/07 (097) | W | TDRS E | TDRS Z | D/N | ORB | MET Day 001 | STS ATI

03:00 04:00 05:00 06:00

27 28 29 30

16:00 17:00 18:00 19:00 20:00

-ZLV+YVV

RNDZ

< NC4 TIG (01/17:16:25)

< Ti TIG (01/18:47:54)

CDR POINDEXTER

RENDEZVOUS TIMELINE
(RNDZ, RENDEZVOUS T/L)

PLT DUTTON

RENDEZVOUS TIMELINE
(RNDZ, RENDEZVOUS T/L)

MS2 METCALF-LINDENBURGER

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
On MCC GO: A15 APCU 1 CONV - OFF
OUTPUT - OFF
L17 Check MCIU filter screen
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

On MCC GO:
TRIDAR ACTIVATION (Cue Card)

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EXERCISE

RENDEZVOUS TIMELINE
(RNDZ, RENDEZVOUS T/L)

NOTES

TFL 192

UPLINK
β21 + Mask
Box 30,40

STS-131/19A FD03

GMT Date 04/07 (097) | W | TDRSE | Z | D/N | ORB | MET Day 001 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

16:00 — 17:00 — 18:00 — 19:00 — 20:00

03:00 — 04:00 — 05:00 — 06:00

27 — 28 — 29 — 30

-ZLV+YVV

RNDZ

MS1 MASTRACCHIO

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

EMU REMOVAL (EVA, AIRLOCK CONFIG)

GALLEY OVERNIGHT CONFIG (ORB OPS, ECLS)

DIDB FILL
Fill 6 DIDBs from galley with 32oz cold iodinated water. Degas. Stow in EVA Sys Xfer Bag.

GALLEY MORNING CONFIG (ORB OPS, ECLS)

EXERCISE

MS3 WILSON

RENDEZVOUS TIMELINE (RNDZ, RENDEZVOUS T/L)

MS4 YAMAZAKI

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

SSV OUTRATE - 3

MERLIN STATUS CK (Cue Card)
GLACIER STATUS CK (Cue Card)
STL STATUS CK (Cue Card)

DAILY TRANSFER LIST UPDATE
Ref. Transfer List & MSG XXX

EXERCISE

P/TVO2 DOCK (P/TV, SCENES) SETUP

P/TVO2 DOCK (P/TV, SCENES) OPS, Items 1-3

MS5 ANDERSON

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

EXERCISE

EMU REMOVAL (EVA, AIRLOCK CONFIG)

RENDEZVOUS TIMELINE (RNDZ, RENDEZVOUS T/L)

STS-131/19A FD03

GMT Date 04/07 (097) | TDRS W E Z | DON ORB | MET Day 001 | STS ATT

CDR POINDEXTER | **PLT** DUTTON | **MS2** METCALF-LINDENBURGER | NOTES

07:00 08:00 09:00 10:00

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

RNDZ

RENDEZVOUS TIMELINE (RNDZ, RENDEZVOUS T/L)
APPROACH (Cue Card)

DOCK

DOCKING 1/21:25 - RETURN TO FLIGHT PLAN

B In Step 3 of G2 SET CONTRACTION √MCC or pause ~4 min (DAP Settling)
DAP: as req'd

POST DOCKING HATCH LEAK CHECK (RDNZ, APDS)

MNVR (TRK) BIAS -XLV -ZVV (Mated TEA)
TG=2 BV=5 P=161.82 Y=0 OM=187.09
Init TRK, DAP: FREE > 2 sec, then
DAP: A12/AUTO/VERN

TRIDAR DEACTIVATION (Cue Card)

UPLINK
β21 + Mask Box 40,41

AIRLOCK PREP FOR INGRESS - AIRLOCK FAN ACTIVE (RNDZ, APDS)

When MNVR complete and Rates damped:
PRIORITY PWRDN GRP B (ORB PKT, PRIOR PWRDN)
Step 6 (Single G2) B , Step 12 (IMU 3)
O6 S TRK PWR -Z - OFF

When MNVR complete and Rates damped:
PRIORITY PWRDN GRP B (ORB PKT, PRIOR PWRDN)
Step 6 (Single G2) D , Step 12 (IMU 3)
O6 S TRK PWR -Z - OFF

TFL 184

BIAS -XLV -ZVV

When ISS is GO for deadband collapse, DAP: B13
SSPTS ODS CONNECTOR VERIF C
SSPTS OPCU ACTIVATION D

C SSPTS ODS CONNECTOR VERIF
A15 ODS MATE X1,X2 (two) - ON
√MCC then - OFF

JOINT OPS: 2.104 HATCH OPENING AND SHUTTLE/ISS DUCT INSTALL
Perform steps 2-11 and 14-15
MCC-H will perform steps 1, 12-13 and 16-18

When ISS is GO for attitude cntrl,DAP:FREE
DAP A12/FREE/VERN
Reload DAP B12

JOINT OPS: 6.109 HARDLINE ICOM AUDIO
Steps 1,5,6

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

NO EXERCISE (ATT RATES SETTLING)

WELCOME | WELCOME | WELCOME

SAFETY BRIEFING | SAFETY BRIEFING | SAFETY BRIEFING

STS-131/19A FD03

GMT Date 04/07 (097) | W E Z | T D R S | D/N | O R B | MET Day 001 | STS ATT

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

20:00

RNDZ

EXERCISE

P/TVO2 DOCK (P/TV, SCENES) OPS, Items 1-3

RENDEZVOUS TIMELINE (RNDZ, RENDEZVOUS T/L) APPROACH (Cue Card)

P/TVO2 DOCK (P/TV, SCENES) OPS, Items 1-3 APPROACH (Cue Card)

RENDEZVOUS TIMELINE (RNDZ, RENDEZVOUS T/L) APPROACH (Cue Card)

07:00 — 30

21:00

DOCK

DOCKING 1/21:25 - RETURN TO FLIGHT PLAN

P/TVO2 DOCK (P/TV, SCENES) DEACTIVATION

08:00

POST DOCKING HATCH LEAK CHECK (RDNZ, APDS)

22:00 — 31

SSV OUTRATE - 2

P/TVO4 INGRESS/EGRESS (P/TV, SCENES) SETUP

AIRLOCK PREP FOR INGRESS - AIRLOCK FAN ACTIVE (RNDZ, APDS)

09:00

P/TVO4 INGRESS/EGRESS (P/TV, SCENES) OPS Ingress, Item 1

NO EXERCISE (ATT RATES SETTLING)

JOINT OPS: 2.104 HATCH OPENING AND SHUTTLE/ISS DUCT INSTALL Perform steps 2-11 and 14-15 MCC-H will perform steps 1, 12-13 and 16-18

23:00 — 32

BIAS-XLV-ZVV

WELCOME | WELCOME | WELCOME | WELCOME

10:00

SAFETY BRIEFING | SAFETY BRIEFING | SAFETY BRIEFING | SAFETY BRIEFING

00:00

STS-131/19A FD03

GMT Date 04/07 (097) | TDRS W E Z | DON/ORB | MET Day 002 | STS ATI

CDR POINDEXTER

- 00:00 SAFETY BRIEFING
- P/TV05 ISS INTERNAL OPS (HC) (P/TV, SCENES) SETUP
- P/TV06 ROBOTICS (P/TV, SCENES) SETUP
- P/TV04 INGRESS/EGRESS (DEACTIVATION) (P/TV, SCENES)
- CWC-I FILL #1 (ORB OPS, ECLS) Perform Parts D & E Ref. MSG XXX
- CWC-I FILL #2 (ORB OPS, ECLS) Perform Parts D & E Ref. MSG XXX
- CWC-I FILL #3 (ORB OPS, ECLS) Perform Parts D & E Ref. MSG XXX
- CWC-I TRANSFER Transfer 3 CWC-Is to ISS
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- DIGITAL VIA VTR (Cue Card, DIGITAL PLAYBACK) Docking KU TDRW (03:10-03:41)
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- L9 PAYLOAD STATION A/G (two) - OFF PRIVATE MEDICAL CONFERENCE VIA A/G 2

PLT DUTTON

- SAFETY BRIEFING
- OBSS HANDOFF FROM SSRMS TO SRMS (PDRS, OBSS NOMINAL)
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MS2 METCALF-LINDENBURGER

- SAFETY BRIEFING
- OBSS HANDOFF FROM SSRMS TO SRMS (PDRS, OBSS NOMINAL)
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

NOTES

- NO EXERCISE WHILE OBSS GRAPPLED BY RMS & SSRMS

BIAS-XLV-ZVV

STS-131/19A FD03

GMT Date 04/07 (097) | W | TDRS E | Z | D/N | ORB | MET Day 002 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

00:00

SAFETY BRIEFING

TRANSFER OPS
Transfer EVA Camera Viewfinders
Ref. Middeck Transfer List

POST DOCKING EVA TRANSFER
(EVA, AIRLOCK CONFIG)

POST-DOCKING EVA RECONFIG
(EVA, AIRLOCK CONFIG)

EVA SYS: 1.307 REBA INSTALLATION/
REMOVAL Perform INSTALLATION
Ref. CONSUMABLES TRACKING CC

EVA SYSTEMS: 1.403 REBA POWERED
HARDWARE CHECK

TRANSFER OPS
Ref. Transfer List

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SAFETY BRIEFING

POC: 2.7.501 DOUG STARTUP
PROCEDURE Step 1

ROBOTICS: 1.100 OBSS UNBERTH &
HANDOFF

TRANSFER OPS
Ref. Transfer List

MERLIN STATUS CK (Cue Card)
GLACIER STATUS CK (Cue Card)
STL STATUS CK (Cue Card)
AEM UNIT#1 CK (Cue Card)
AEM UNIT#2 CK (Cue Card)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SAFETY BRIEFING

CSS: 1.101 LONG DURATION CREW
RESTRAINT INSTALL steps 13-15

ROBOTICS: 1.100 OBSS UNBERTH &
HANDOFF

TRANSFER OPS
Ref. Transfer List

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

TRANSFER TAGUP
Coordinate with transfer
counterparts

TRANSFER BRIEF
Call down status to MCC

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SAFETY BRIEFING

POST DOCKING EVA TRANSFER
(EVA, AIRLOCK CONFIG)

POST-DOCKING EVA RECONFIG
(EVA, AIRLOCK CONFIG)

EVA SYS: 1.307 REBA INSTALLATION/
REMOVAL Perform INSTALLATION
Ref. CONSUMABLES TRACKING CC

EVA SYSTEMS: 1.403 REBA POWERED
HARDWARE CHECK

TRANSFER OPS
Ref. Transfer List

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

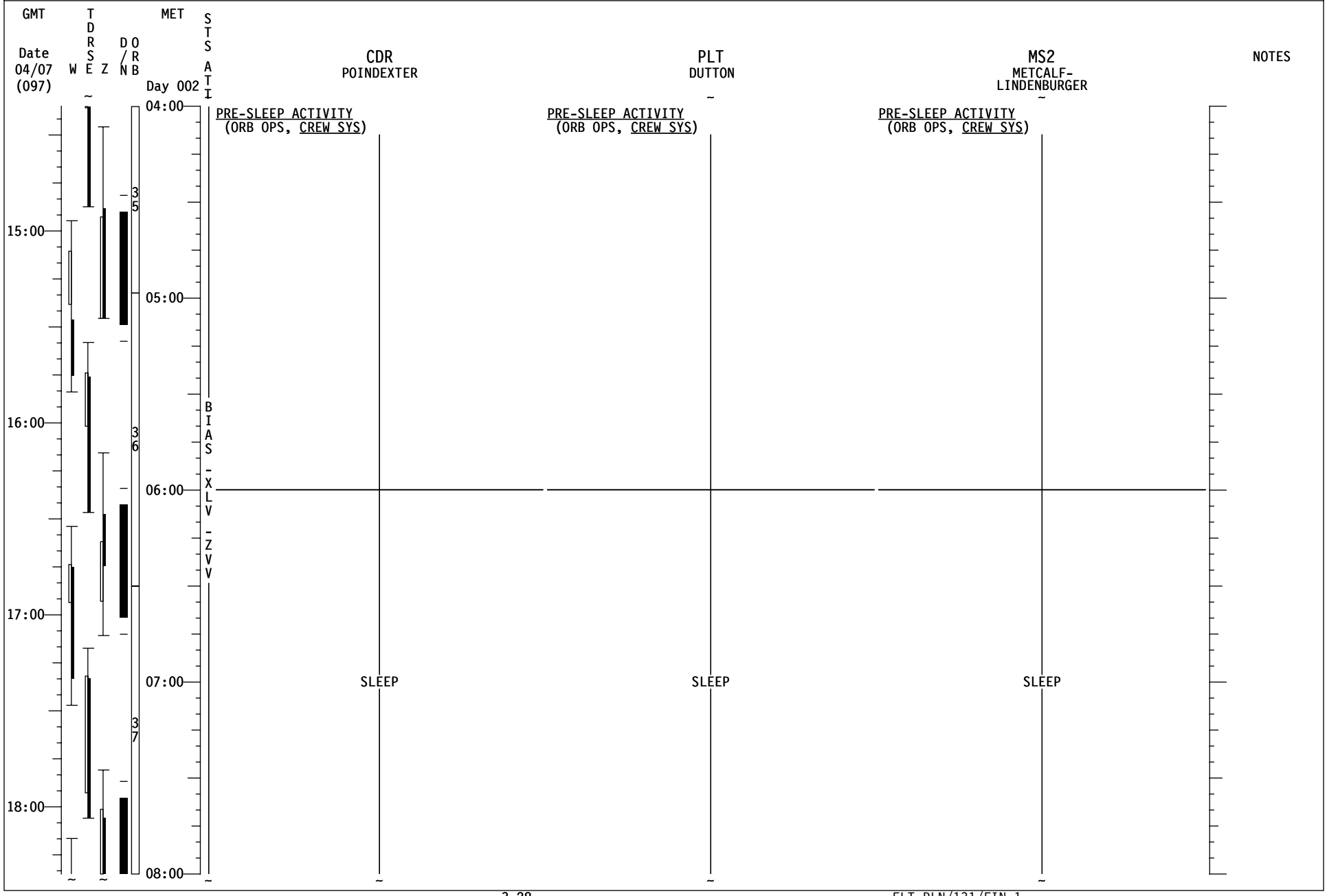
NOTES: NO EXERCISE WHILE OBSS GRAPPLED BY RMS & SSRMS

11:00 12:00 13:00 14:00 04:00

32 33 34 35

BIAS-XLV-ZVV

STS-131/19A FD03



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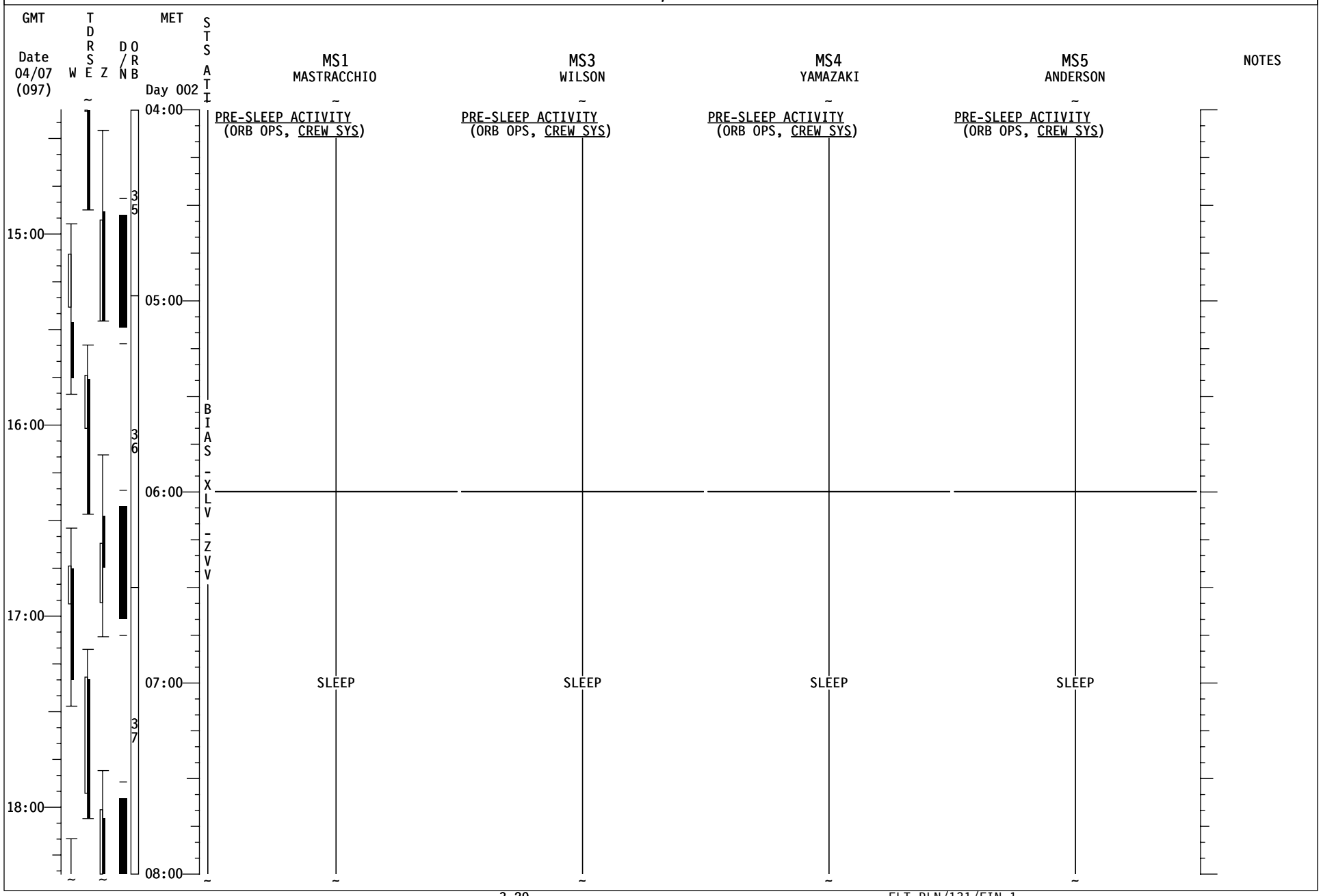

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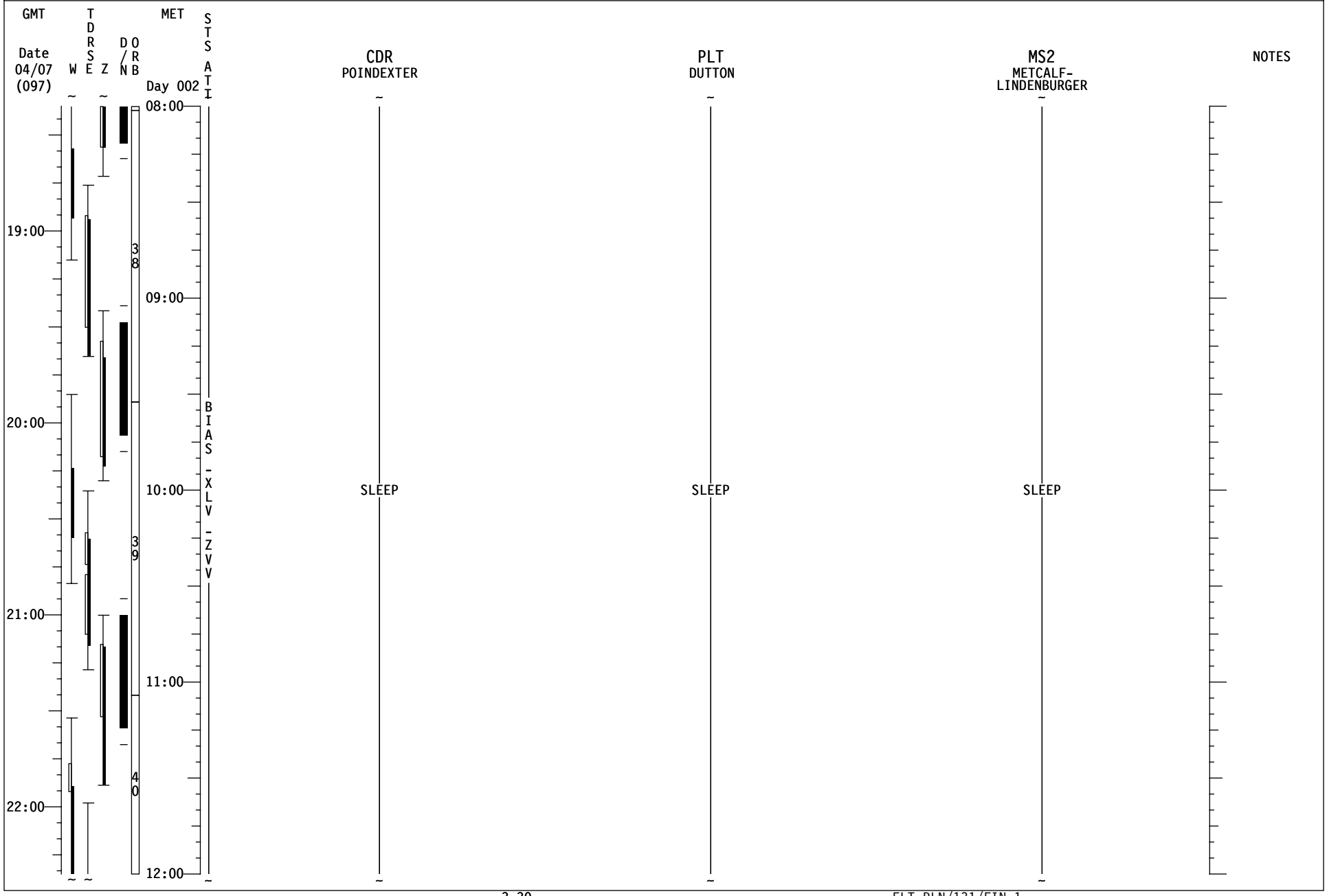

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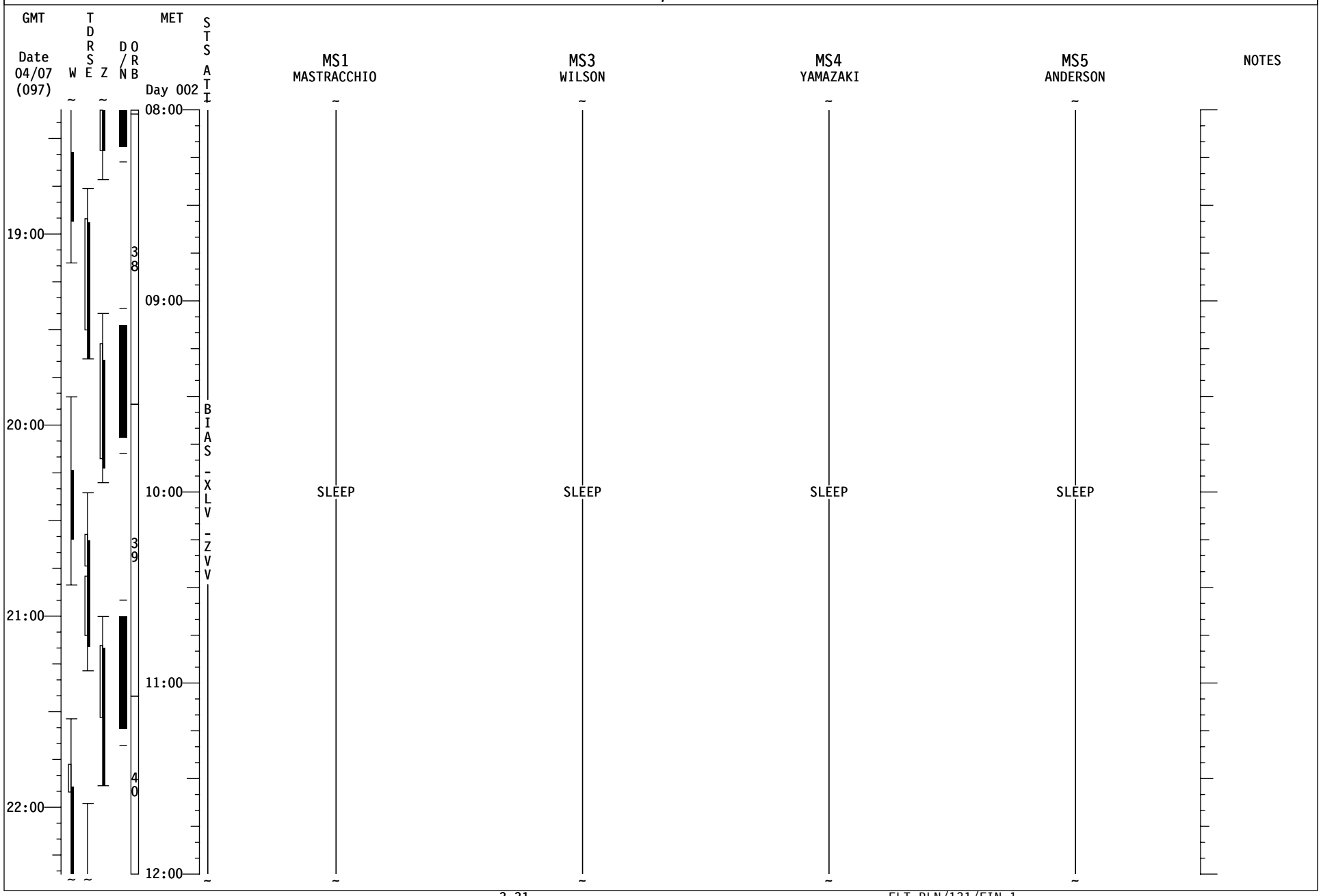


STS-131/19A FD04

GMT Date 04/07 (097) | W | TDRSE | Z | D/N | ORB | MET Day 002 | STS ATI

CDR POINDEXTER | PLT DUTTON | MS2 METCALF-LINDENBURGER | NOTES

12:00 — 13:00 — 14:00 — 15:00 — 16:00

23:00 — 00:00 — 01:00 — 02:00

40 — 41 — 42 — 43

BIAS-XLV-ZVV

SLEEP (CDR) | SLEEP (PLT) | SLEEP (MS2)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) (CDR)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) (PLT)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) (MS2)

FD04 EZ ACTIVITIES:
TEPC (ORB OPS, CREW SYSTEMS)
Check Status
OCAC Filter Inspection
Check MDDK Duct Screen
Hard reboot all PGSCs not shut down overnight, except: STS1 (OCA Router), STS5 (RPOP2) and STS6 (WLES)

On MCC GO: A15 APCU 1 OUTPUT - ON
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

TFL 199

MPLM PRESS CHECK

STS-131/19A FD04

GMT Date 04/07 (097) | W | T D R S E | Z | D/N | O R B | MET Day 002 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

12:00 — 13:00 — 14:00 — 15:00 — 16:00

23:00 — 00:00 — 01:00 — 02:00

40 — 41 — 42 — 43

BIAS-XLV-ZVV

MS1	MS3	MS4	MS5
SLEEP	SLEEP	SLEEP	SLEEP
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	SLEEP LOGBOOK (SDBI 1634) POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) POC: 2.7.501 DOUG STARTUP PROCEDURE Step 1

STS-131/19A FD04

GMT Date 04/08 (098) | W | TDRS E | Z | D/N | ORB | MET Day 002 | STS ATI

CDR POINDEXTER

16:00
On MCC GO: A15 APCU 1 OUTPUT - OFF
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MERLIN STATUS CK (Cue Card)
GLACIER STATUS CK (Cue Card)
STL STATUS CK (Cue Card)

DAILY TRANSFER LIST UPDATE
Ref. Transfer List & MSG XXX

IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)

17:00
CWC-I FILL #4
(ORB OPS, ECLS)
Perform Parts D & E
Ref. MSG XXX

CWC-I FILL #5
(ORB OPS, ECLS)
Perform Parts D & E
Ref. MSG XXX

CWC-I FILL #6
(ORB OPS, ECLS)
Perform Parts D & E
Ref. MSG XXX

18:00
CWC-I TRANSFER
Transfer 3 CWC-Is to ISS

19:00
TRANSFER OPS
Ref. Transfer List

20:00

PLT DUTTON

P/TVO6 ROBOTICS OPERATIONS
(P/TV, SCENES)
OPS, Items 1-2 for MPLM Unberth and Install

MS2 METCALF-LINDENBURGER

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

L17 Check MCIU filter screen
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

ROBO: 1.200 MPLM UNBERTH AND INSTALL
Steps 7-11

TRANSFER OPS
Ref. Transfer List

EVA 1 TOOL CONFIG
(EVA, TIMELINES)
Ref. CONSUMABLES TRACKING CUE CARD
Ref. MSG XXX

TRANSFER OPS
Ref. Transfer List

NOTES

TFL 184

NO EXERCISE (MPLM INST/ BOLT LOADING)

STS-131/19A FD04

GMT Date 04/08 (098) | W | T D R S E Z | D / N | O R B | MET Day 002 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

03:00 — 04:00 — 05:00 — 06:00

43 — 44 — 45

16:00 — 17:00 — 18:00 — 19:00 — 20:00

BIAS-XLV-ZVV

MS1 MASTRACCHIO

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- EVA 1 TOOL CONFIG (EVA, TIMELINES) Ref. CONSUMABLES TRACKING CUE CARD Ref. MSG XXX
- EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP Omit DRINK BAG FILL
- TRANSFER OPS Ref. Transfer List

MS3 WILSON

- ROBO: 1.200 MPLM UNBERTH AND INSTALL Steps 1-3
- ROBO: 1.200 MPLM UNBERTH AND INSTALL Steps 4-18
- ROBO: 1.200 MPLM UNBERTH AND INSTALL Steps 19-20
- ROBO: 1.200 MPLM UNBERTH AND INSTALL Step 21
- ROBO: 1.200 MPLM UNBERTH AND INSTALL Steps 22-23
- ROBO: 1.200 MPLM UNBERTH AND INSTALL Steps 24-28

MS4 YAMAZAKI

- ROBO: 1.200 MPLM UNBERTH AND INSTALL Steps 1-3
- ROBO: 1.200 MPLM UNBERTH AND INSTALL Steps 4-18
- ROBO: 1.200 MPLM UNBERTH AND INSTALL Steps 19-20
- ROBO: 1.200 MPLM UNBERTH AND INSTALL Step 21
- ROBO: 1.200 MPLM UNBERTH AND INSTALL Steps 22-23
- ROBO: 1.200 MPLM UNBERTH AND INSTALL Steps 24-28

MS5 ANDERSON

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- EVA 1 TOOL CONFIG (EVA, TIMELINES) Ref. CONSUMABLES TRACKING CUE CARD Ref. MSG XXX
- EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP Omit DRINK BAG FILL
- TRANSFER OPS Ref. Transfer List
- EXERCISE

NOTES

- NO EXERCISE (MPLM INST/ BOLT LOADING)

STS-131/19A FD04

GMT Date 04/08 (098) | W | TDRS E | Z | D/N | ORB | MET Day 002 | STS ATI

CDR POINDEXTER | PLT DUTTON | MS2 METCALF-LINDENBURGER | NOTES

20:00

- CDR: TRANSFER OPS Ref. Transfer List
- PLT: P/TV06 ROBOTICS OPERATIONS (P/TV, SCENES) OPS, Items 1-2 for MPLM Unberth and Install
- MS2: TRANSFER OPS Ref. Transfer List

07:00

- PLT: P/TV06 ROBOTICS OPERATIONS (DEACTIVATION) (P/TV, SCENES)

21:00

- CDR: MEAL
- PLT: MEAL
- MS2: MEAL

08:00

- PLT: N2 REPRESS INIT [A]
- PLT: [A] N2 REPRESS USING P/L N2 VLVS (ORB OPS, ECLS) Steps 1,3-7 MCC will TMBU S/W FDA

22:00

- CDR: TRANSFER OPS Ref. Transfer List
- PLT: TRANSFER OPS Ref. Transfer List
- MS2: TRANSFER OPS Ref. Transfer List

09:00

23:00

- PLT: [B] N2 REPRESS USING P/L N2 VLVS (ORB OPS, ECLS) on MCC go, perform steps 8-13 MCC will TMBU S/W FDA
- CDR: EXERCISE
- PLT: N2 REPRESS TERM (On MCC GO) [B]
- PLT: P/TV09 MIDDECK PAYLOADS (P/TV, SCENES) SETUP

10:00

00:00

- CDR: TRANSFER OPS Ref. Transfer List
- PLT: P/TV09 MIDDECK PAYLOADS (P/TV, SCENES) OPS, Item 2 for MERLIN Stills

ORB: 45, 46, 47, 48

STS ATI: BIAS-XLV-ZVV

STS-131/19A FD04

GMT Date 04/08 (098) | W | TDRS E | Z | D/N | ORB | MET Day 002 | STS ATI

MET: 20:00, 21:00, 22:00, 23:00, 00:00; GMT: 07:00, 08:00, 09:00, 10:00

ORB: 45, 46, 47, 48

STS ATI: BIAS-XLV-ZVV

MS1 MASTRACCHIO	MS3 WILSON	MS4 YAMAZAKI	MS5 ANDERSON	NOTES
TRANSFER OPS Ref. Transfer List	ROBO: 1.200 MPLM UNBERTH AND INSTALL Steps 24-28	ROBO: 1.200 MPLM UNBERTH AND INSTALL Steps 24-28	EXERCISE	
MEAL	MEAL	MPLM: 1.113 N2 TO MPLM VESTIBULE PRESSURIZATION AND LEAK CHECK Verify CBM bolt load complete prior to Step 5. Leave ISA/VAJ connected in Step 9.	MEAL	
JOINT OPS: 3.120 PREBREATHE USING SHUTTLE O2 SETUP Steps 2-6; Ground will perform steps 2.4 and 6.14	TRANSFER OPS Ref. Transfer List	MEAL	S&M: 1.108 MPLM VESTIBULE - CONFIGURE FOR INGRESS Steps 1-5 S&M: A.14 MPLM VESTIBULE AND ACTIVATION PROCEDURES CC	
TRANSFER OPS Ref. Transfer List	EXERCISE	TRANSFER OPS Ref. Transfer List	MPLM: 1.103 MPLM ACTIVATION (PART 1) Perform Steps 1,4-7,8	
EXERCISE	SAMPLE TRANSFER REVIEW Ref. MSG XXX MERLIN 19A UNPACK (ASSY OPS, PAYLOADS)	EXERCISE		

STS-131/19A FD04

GMT Date 04/08 (098) | W E Z | D/N | ORB | MET Day 003 | STS ATI

11:00
12:00
13:00
14:00

48
49
50
51

BIAS-XLV-ZVV

CDR POINDEXTER

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

TRANSFER OPS
Ref. Transfer List

PUBLIC AFFAIRS EVENT
ISS KU AVAIL (01:19-01:55)

EVA 1 BRIEFING CARD
(EVA, TIMELINES)
EVA 1 Procedure Review
Ref. MSG XXX

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
Air Quality Report

L9 PAYLOAD STATION A/G (two) - OFF
PRIVATE MEDICAL CONFERENCE VIA A/G 2

PLT DUTTON

P/TV09 MIDDECK PAYLOADS
(P/TV, SCENES) OPS, Item 2 for MERLIN Stills

P/T09 MIDDECK PAYLOADS
(P/TV, SCENES)
OPS, Item 1 for GLACIER

EXERCISE

EVA 1 BRIEFING CARD
(EVA, TIMELINES)
EVA 1 Procedure Review
Ref. MSG XXX

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS2 METCALF-LINDENBURGER

TRANSFER OPS
Ref. Transfer List

EXERCISE

EVA 1 BRIEFING CARD
(EVA, TIMELINES)
EVA 1 Procedure Review
Ref. MSG XXX

TRANSFER OPS
Retrieve SO RGA
Ref. MPLM Transfer List

TRANSFER OPS
Retrieve MPAC/SEED
Ref. MPLM Transfer List

NOTES

STS-131/19A FD04

GMT Date 04/08 (098) | W | T D R S E Z | D/N | O R B | MET Day 003 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

00:00

EXERCISE

MERLIN 19A UNPACK
(ASSY OPS, PAYLOADS)

19A SAMPLE TRANSFER FROM GLACIER TO MELFI
(ASSY OPS, PAYLOADS)

EXERCISE

MPLM: 1.103 MPLM ACTIVATION (PART 1)
Perform Steps 1,4-7,8

11:00

48

01:00

TRANSFER OPS
Ref. Transfer List

LOCKING GLACIER DOOR (ASSY OPS, PAYLOADS)

P/TV09 MIDDECK PAYLOADS
(P/TV, SCENES)
OPS, Item 4 for STL
P/TV09 MIDDECK PAYLOADS
(PHOTO T/V, SCENES)
OPS, Item 3 for AEM Photos

MERLIN STATUS CK (Cue Card)
GLACIER STATUS CK (Cue Card)
STL STATUS CK (Cue Card)
AEM UNIT#1 CK (Cue Card)
AEM UNIT#2 CK (Cue Card)
P/TV05 ISS INTERNAL OPS (HC)
(P/TV, SCENES)
SETUP

S&M: 1.108 MPLM VESTIBULE - CONFIGURE FOR INGRESS
Steps 7-8

MPLM: 1.103 MPLM ACTIVATION (PART 2)
Step 9

12:00

49

PUBLIC AFFAIRS EVENT
ISS KU AVAIL (02:54-03:36)

PUBLIC AFFAIRS EVENT
ISS KU AVAIL (02:54-03:36)

P/TV05 ISS INTERNAL OPS (HC)
(PHOTO/TV, SCENES)
OPS, Item 2 for MPLM Hatch Open

MPLM: 1.104 MPLM INGRESS
Steps 1-6

02:00

BIAS-XLV-ZVV

EVA 1 BRIEFING CARD
(EVA, TIMELINES)
EVA 1 Procedure Review
Ref. MSG XXX

EVA 1 BRIEFING CARD
(EVA, TIMELINES)
EVA 1 Procedure Review
Ref. MSG XXX

EVA 1 BRIEFING CARD
(EVA, TIMELINES)
EVA 1 Procedure Review
Ref. MSG XXX

P/TV09 MIDDECK PAYLOADS
(P/TV, SCENES)
SETUP
OPS, Item 3 for both AEMs
DEACTIVATION

13:00

03:00

50

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

NLP GAP TERMINATION
(ASSY OPS, PAYLOADS)
Terminate GAPs A-P (MF710)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

14:00

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

51

04:00

STS-131/19A FD04

GMT Date 04/08 (098) | W | TDRS E | TDRS Z | D/N | ORB | MET Day 003 | STS ATI

CDR POINDEXTER | **PLT** DUTTON | **MS2** METCALF-LINDENBURGER | NOTES

04:00 — PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MPAC/SEED TRANSFER OPS Ref. pg 3-38

TRANSFER TAGUP
Coordinate with transfer counterparts

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

BIAS-XLV-ZVV

15:00 — 51

05:00

16:00 — 52

06:00

BIAS-XLV-ZVV

CREW WAKEUP AT 3/14:30

17:00

07:00

SLEEP | SLEEP | SLEEP

53

18:00

08:00

STS-131/19A FD04

GMT Date 04/08 (098) | W | TDRS E | Z | D/N | ORB | MET Day 003 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

BIAS-XLV-ZVV

04:00 — PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

TRANSFER TAGUP
Coordinate with transfer counterparts

TRANSFER BRIEF
Call down status to MCC

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

15:00 — 51

05:00 — EVA SYSTEMS: 1.206 10.2 PSIA
CAMPOUT MASK PREBREATHE
Ref. EVA 1 TOOL CONFIG (EVA, TIMELINES) For MPAC SEED Cover

EVA SYSTEMS: 1.206 10.2 PSIA
CAMPOUT MASK PREBREATHE

16:00

06:00 — PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

52

BIAS-XLV-ZVV

CREW WAKEUP AT 3/14:30

17:00

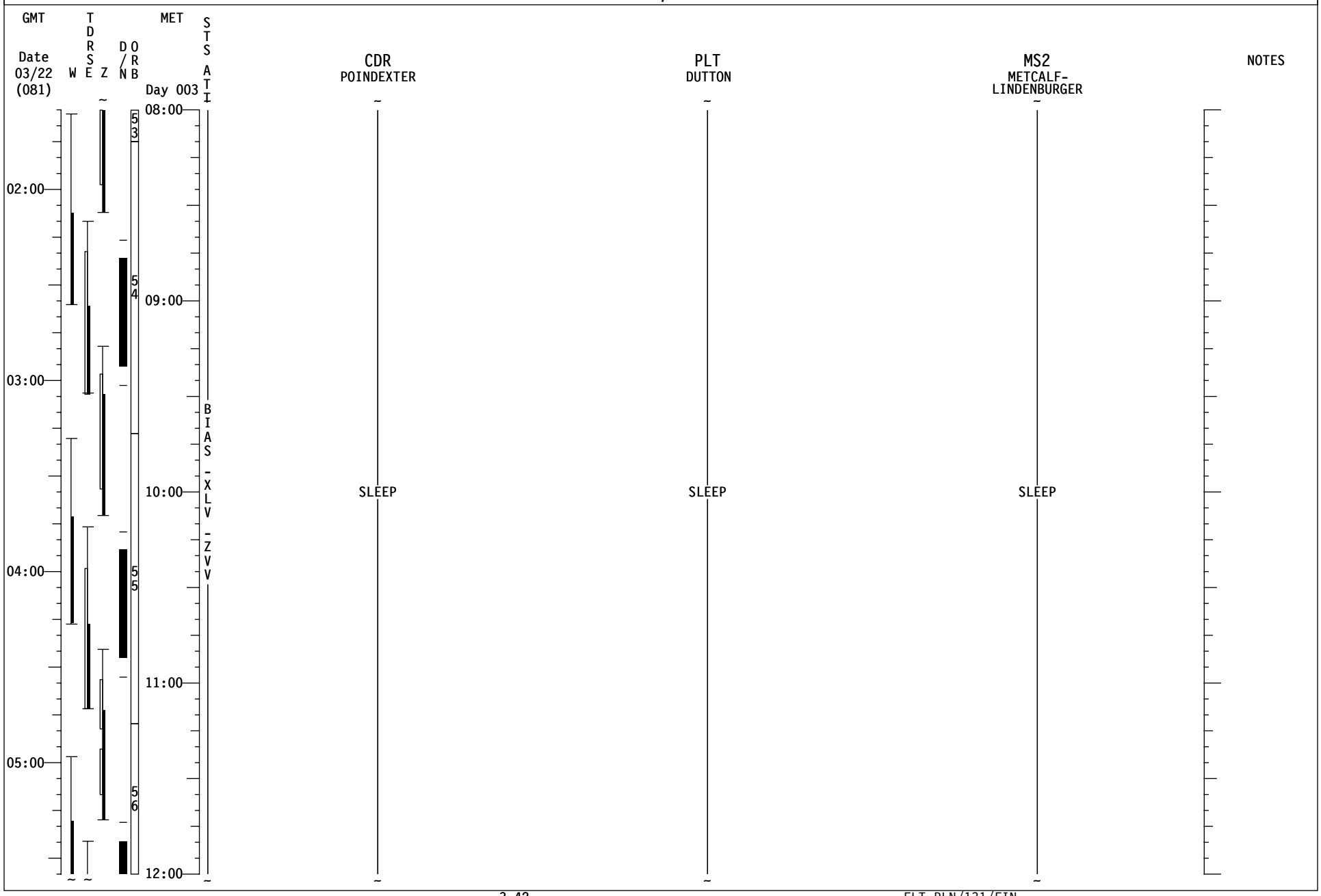
07:00 — SLEEP | SLEEP | SLEEP | SLEEP

53

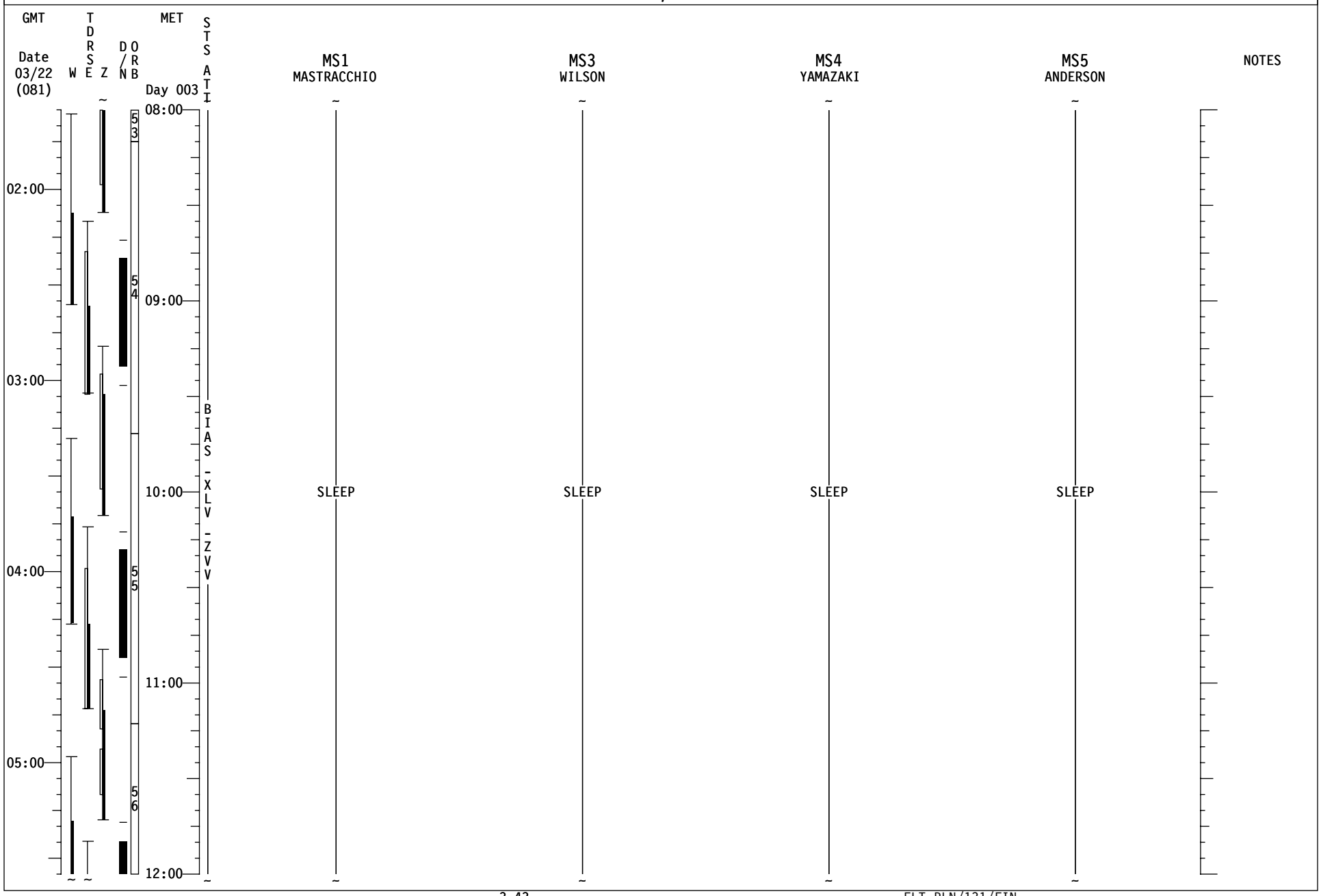
18:00

08:00

STS-131/19A FD04



STS-131/19A FD04



STS-131/19A FD05

GMT Date 03/22 (081) | W | T D R S E | Z | D/N | O R B | MET Day 003 | STS ATI

CDR POINDEXTER | PLT DUTTON | MS2 METCALF-LINDENBURGER | NOTES

12:00 — 06:00 — 07:00 — 08:00 — 09:00 — 13:00 — 14:00 — 15:00 — 16:00

56 57 58 59

BIAS-XLV-ZVV

SLEEP (CDR, PLT, MS2)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) (CDR, PLT, MS2)

L9 PAYLOAD STATION A/G (two) - OFF
PRIVATE MEDICAL CONFERENCE VIA A/G 2

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) (CDR)

EVA SYSTEMS: 1.211 HYGIENE BREAK
Steps 21-end. MCC-H will perform step 23.

EVA SYSTEMS: 1.216 EVA PREP

FD05 EZ ACTIVITIES:
TEPC (ORB OPS, CREW SYSTEMS)
Check Status
OCAC Filter Inspection
Check MDDK Duct Screen
Hard reboot all PGSCs not shut down overnight, except: STS1 (OCA Router), STS5 (RPOP2) and STS6 (WLES)

L17 Check MCIU filter screen

TRANSFER OPS
Ref. MPLM Transfer List

STS-131/19A FD05

GMT Date 03/22 (081) | W | T D R S E | Z | D/N | O R B | MET Day 003 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

06:00 | 07:00 | 08:00 | 09:00

56 | 57 | 58 | 59

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

BIAS-XLV-ZVV

MS1 MASTRACCHIO

SLEEP

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EVA SYSTEMS: 1.211 HYGIENE BREAK
MCC-H will perform steps 1-4, 16-20, and 23.

EVA SYSTEMS: 1.216 EVA PREP

MS3 WILSON

SLEEP

SLEEP LOGBOOK (SDBI 1634)

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MERLIN STATUS CK (Cue Card)
GLACIER STATUS CK (Cue Card)
STL STATUS CK (Cue Card)

EXERCISE

MS4 YAMAZAKI

SLEEP

SLEEP LOGBOOK (SDBI 1634)

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

DAILY TRANSFER LIST UPDATE
Ref. Transfer List & MSG XXX

TRANSFER OPS
Ref. MPLM Transfer List

MS5 ANDERSON

SLEEP

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EVA SYSTEMS: 1.211 HYGIENE BREAK
MCC-H will perform steps 1-4, 16-20, and 23.

EVA SYSTEMS: 1.216 EVA PREP

STS-131/19A FD05

GMT Date 03/22 (081) | W | T D R S E | Z | D/N | O R B | MET Day 003 | STS ATI

CDR POINDEXTER

16:00 — EVA 1 INHIBIT PAD (EVA, TIMELINES)

TRANSFER OPS Ref. MPLM Transfer List

P/TV07 EVA (P/TV, SCENES) SETUP

SHUTTLE/ISS H2O CONTAINER FILL (HC) (ORB OPS, ECLS) Perform CWC FILL #4, Ref. MSG XXX

MEAL

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

CWC TRANSFER Transfer 1 CWC to ISS

IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)

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

20:00

PLT DUTTON

EVA SYSTEMS: 1.216 EVA PREP

EVA SYSTEMS: 1.220 EMU PURGE

EVA SYSTEMS: 1.225 EMU PREBREATHE

EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD Perform CREWLOCK DEPRESS

C-LK DPRS/RPRS CC (POST DEPRESS)

MEAL

POC: 2.7.501 DOUG STARTUP PROCEDURE Step 1

ROBO: 1.300 EVA 1 SUPPORT

MS2 METCALF-LINDENBURGER

TRANSFER OPS Ref. MPLM Transfer List

IVA SUPPORT PREP

IVA SUPPORT FOR EVA 1

NOTES

NO UNISOLATED EXERCISE (WHILE CREW IN APFR)

10:00 — 11:00 — 12:00 — 13:00 — 17:00 — 18:00 — 19:00

BIAS-XLV-ZVV

59 — 60 — 61

STS-131/19A FD05

GMT Date 03/22 (081) | W | TDRS E | Z | D/N | ORB | MET Day 003 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

16:00

EVA SYSTEMS: 1.216 EVA PREP

EVA SYSTEMS: 1.220 EMU PURGE

EVA SYSTEMS: 1.225 EMU PREBREATHE

EXERCISE

TRANSFER OPS
Ref. MPLM Transfer List

10:00

59

17:00

EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD
Perform CREWLOCK DEPRESS

EXERCISE

11:00

BIAS-XLV-ZVV

C-LK DPRS/RPRS CC (POST DEPRESS)

2.100 ZSR TRANSFER MPLM TO ISS
(ASSY OPS, TRANSFER)

18:00

EGRESS

TRANSFER OPS
Ref. MPLM Transfer List

60

RETRIEVE FGB FROM S1 ATA

1.115 ZSR RACK DEPLOY IN JPM OR JLP
(ASSY OPS, TRANSFER)

12:00

RELEASE S1 ATA FQDs

PREP PLB ATA FOR RELEASE

19:00

PREP PLB ATA FOR RELEASE

MEAL

13:00

61

RELEASE PLB ATA & H/O TO SSRMS

ROBO: 1.300 EVA 1 SUPPORT

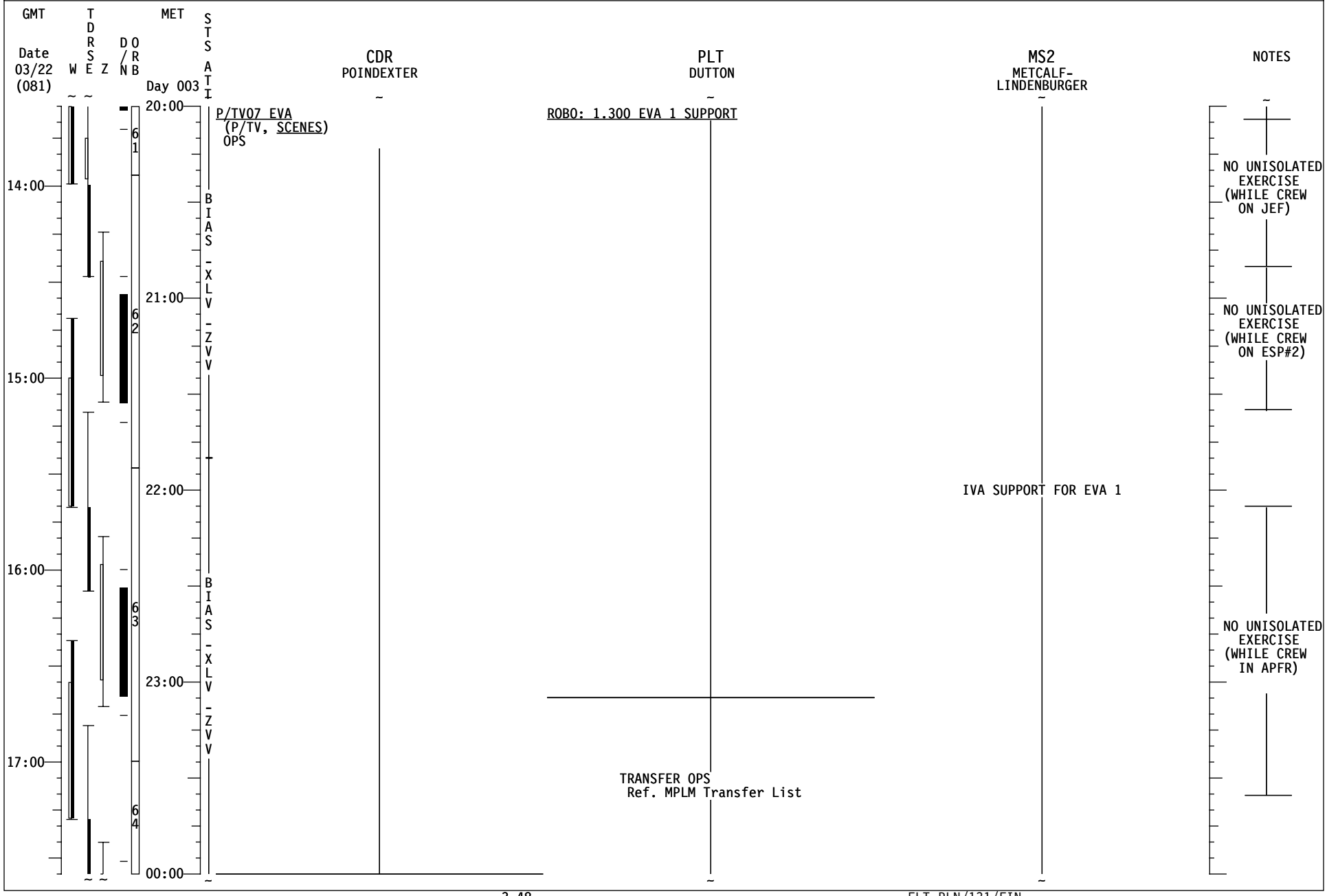
2.106 RACK TRANSFER FROM MPLM TO ISS (MELFI-3)
(ASSY OPS, TRANSFER)

RELEASE PLB ATA & H/O TO SSRMS

NO UNISOLATED EXERCISE (WHILE CREW IN APFR)

20:00

STS-131/19A FD05



STS-131/19A FD05

GMT Date 03/22 (081) | W | T D R S E | Z | D / N | O R B | MET Day 003 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

20:00

RELEASE PLB ATA & H/O TO SSRMS

ROBO: 1.300 EVA 1 SUPPORT

2.106 RACK TRANSFER FROM MPLM TO ISS (MELFI-3)
(ASSY OPS, TRANSFER)

RELEASE PLB ATA & H/O TO SSRMS

61

14:00

JEM SEED RETRIEVE

PLB CLEANUP & XLATION TO ESP-2

NO UNISOLATED EXERCISE (WHILE CREW ON JEF)

BIAS-XLV-ZVV

2.104 RACK TRANSFER FROM MPLM TO ISS (EXPRESS-7, CQ2, MARES)
(ASSY OPS, TRANSFER)
Perform for CQ2

21:00

62

AGB RETRIEVE/INSTALL

AGB RETRIEVE/INSTALL

NO UNISOLATED EXERCISE (WHILE CREW ON ESP#2)

15:00

SO RGA R&R

SO RGA R&R

22:00

TRANSFER OPS
Ref. MPLM Transfer List

16:00

63

BIAS-XLV-ZVV

P6 BATTERY PREP

NO UNISOLATED EXERCISE (WHILE CREW IN APFR)

23:00

P6 BATTERY PREP

2.104 RACK TRANSFER FROM MPLM TO ISS (EXPRESS-7, CQ2, MARES)
(ASSY OPS, TRANSFER)
Perform for MARES

17:00

TRANSFER OPS
Ref. MPLM Transfer List

64

CLEANUP

CLEANUP

00:00

STS-131/19A FD05

GMT Date 03/22 (081) | W | TDRS E | Z | D/N | ORB | MET Day 004 | STS ATI

CDR POINDEXTER

- 00:00 — P/TV07 EVA (DEACTIVATION) (P/TV, SCENES)
- TRANSFER OPS Ref. MPLM Transfer List
- 01:00
- 02:00 — EXERCISE
- 03:00 — L9 PAYLOAD STATION A/G (two) - OFF; PRIVATE MEDICAL CONFERENCE VIA A/G 2
- 04:00

PLT DUTTON

- TRANSFER OPS Ref. MPLM Transfer List
- C-LK DPRS/RPRS CC (PRE REPRESS)
- EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD — Perform CREWLOCK REPRESS
- EVA SYSTEMS: 1.240 POST EVA — With EMU H2O Recharge, No METOX; Ref. CONSUMABLES TRACKING CUE CARD
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MS2 METCALF-LINDENBURGER

- IVA SUPPORT FOR EVA 1
- TRANSFER OPS Ref. MPLM Transfer List
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

NOTES

BIAS-XLV-ZVV

18:00 — 64 — 19:00 — 65 — 20:00 — 66 — 21:00

STS-131/19A FD05

GMT Date 03/22 (081) | W | TDRS E | TDRS Z | D/N | ORB | MET Day 004 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

00:00

MS1: CLEANUP
INGRESS
C-LK DPRS/RPRS CC (PRE REPRESS)
EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD
Perform CREWLOCK REPRESS
EVA SYSTEMS: 1.240 POST EVA
With EMU H2O Recharge, No METOX
Ref. CONSUMABLES TRACKING CUE CARD

MS4: 2.104 RACK TRANSFER FROM MPLM TO ISS (ER7, CQ2, MARES)
(ASSY OPS, TRANSFER)
Perform for MARES

MS5: CLEANUP
INGRESS
C-LK DPRS/RPRS CC (PRE REPRESS)
EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD
Perform CREWLOCK REPRESS
EVA SYSTEMS: 1.240 POST EVA
With EMU H2O Recharge, No METOX
Ref. CONSUMABLES TRACKING CUE CARD

18:00 — 64

MS3: TRANSFER OPS
Ref. MPLM Transfer List

MS4: TRANSFER OPS
Ref. MPLM Transfer List

01:00

MS3: 19A GLACIER RECORD QUICK DIAGNOSTIC DATA (Nominal)
(ASSY OPS, PAYLOADS)
MERLIN STATUS CK (Cue Card)
STL STATUS CK (Cue Card)
AEM UNIT#1 CK (Cue Card)
AEM UNIT#2 CK (Cue Card)

MS4: PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

19:00 — 65

MS3: TRANSFER TAGUP
Coordinate with transfer counterparts
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS4: TRANSFER TAGUP
Coordinate with transfer counterparts
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

02:00

MS1: PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS5: PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

BIAS-XLV-ZVV

20:00

MS4: TRANSFER BRIEF
Call down status to MCC

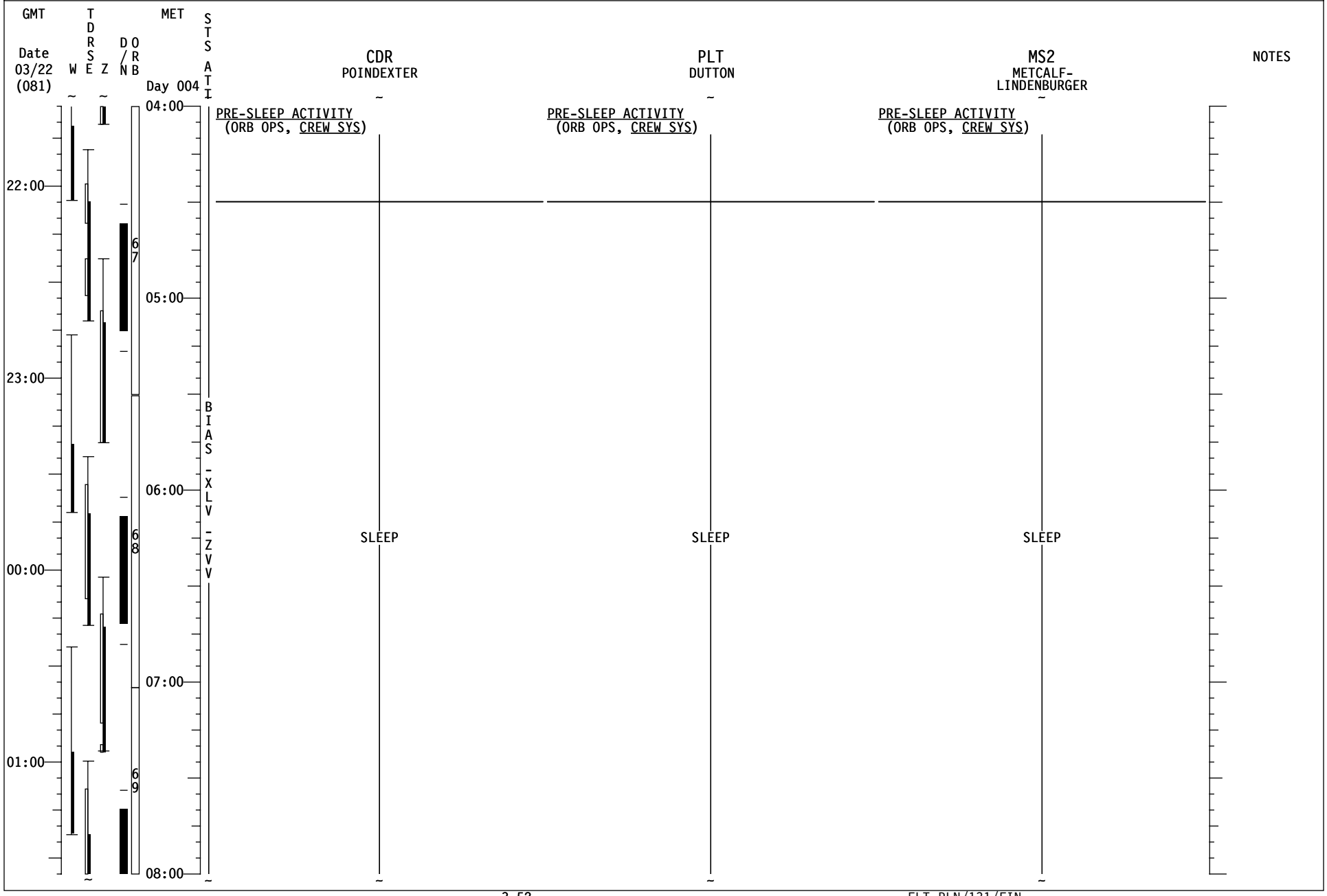
03:00 — 66

MS4: PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

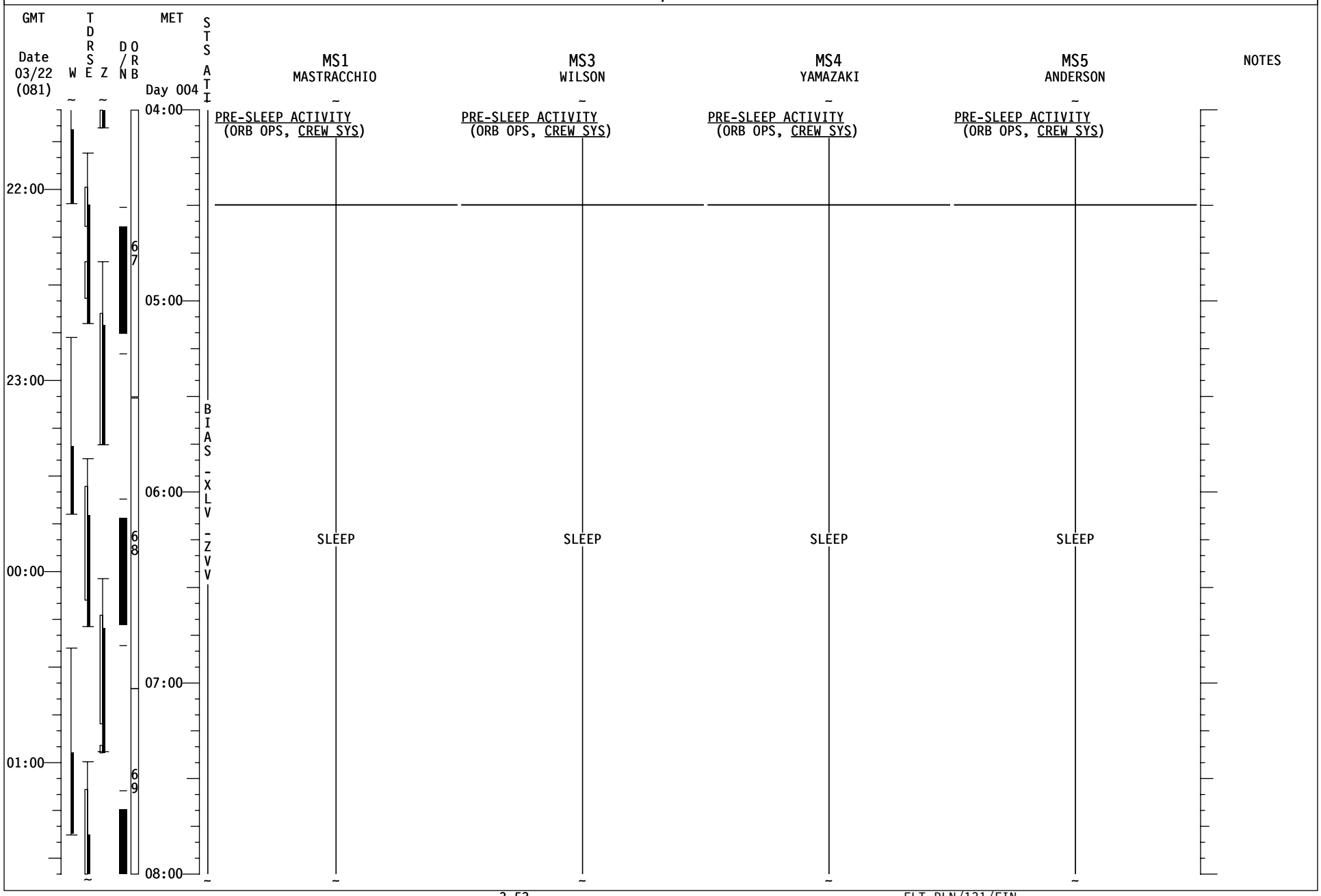
21:00

04:00

STS-131/19A FD05



STS-131/19A FD05



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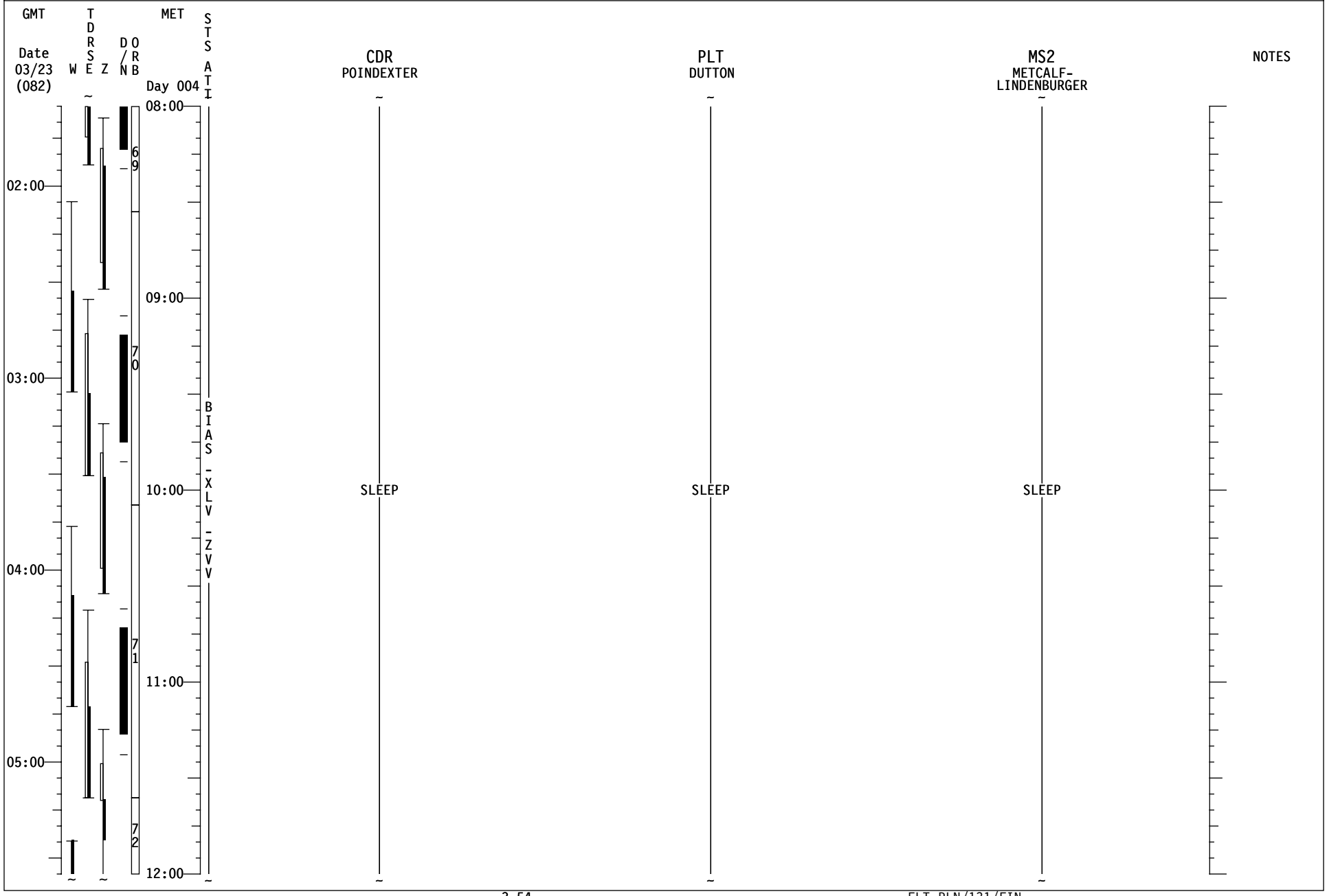

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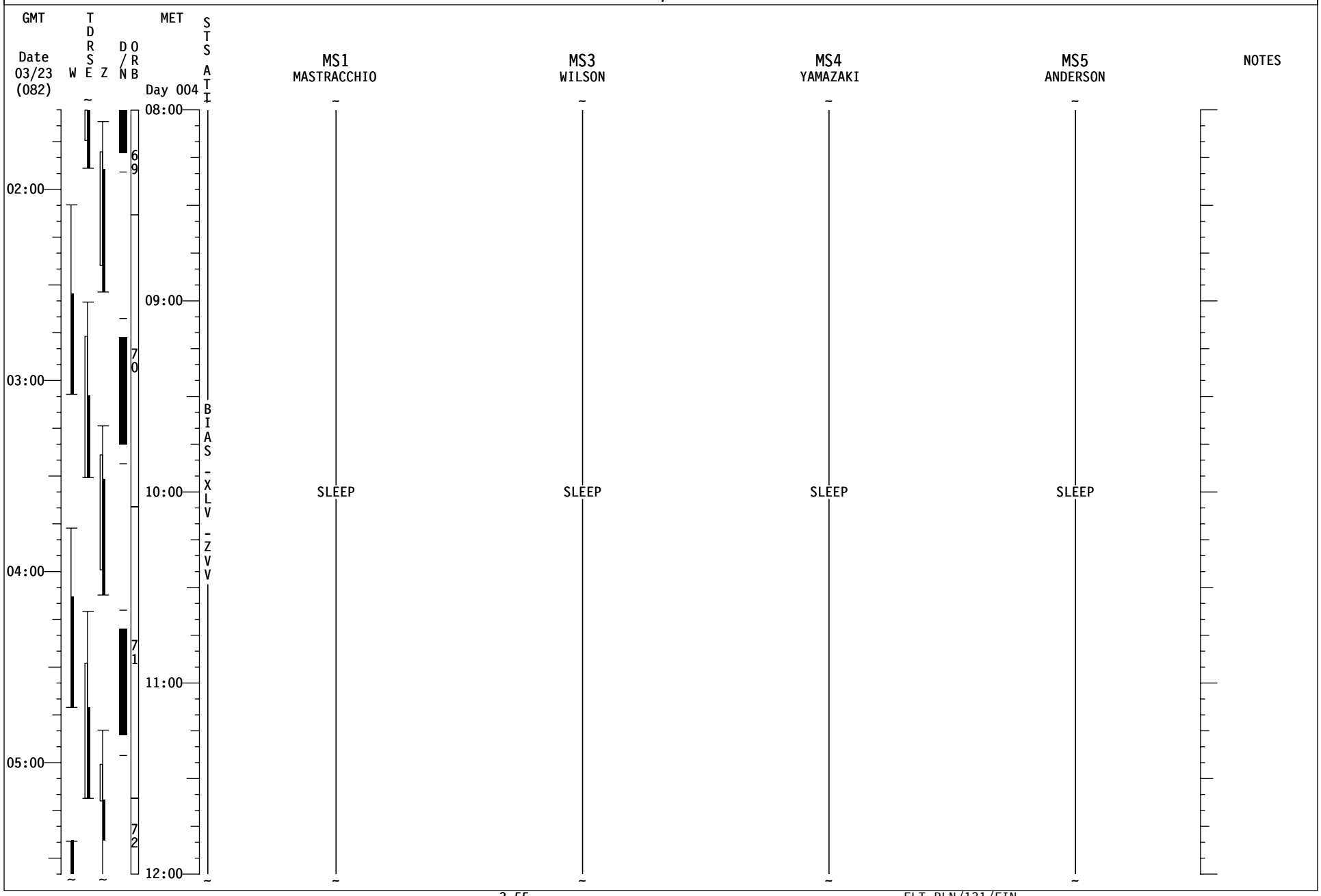


STS-131/19A FD06

GMT Date 03/23 (082) | W | TDRS E | Z | D/N | ORB | MET Day 004 | STS ATI

CDR POINDEXTER | PLT DUTTON | MS2 METCALF-LINDENBURGER | NOTES

12:00 — 06:00 — 07:00 — 08:00 — 09:00 — 13:00 — 14:00 — 15:00 — 16:00

ORB: 72, 73, 74

STS ATI: BIAS-XLV-ZVV

CDR

SLEEP

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

EXERCISE

EXERCISE

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)

N2 REPRESS INIT [A]

PLT

SLEEP

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

EXERCISE

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

DOUG REVIEW Ref. MSG XXX

MS2

SLEEP

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

L17 Check MCIU filter screen

DOUG REVIEW Ref. MSG XXX

FD06 EZ ACTIVITIES:

TEPC (ORB OPS, CREW SYSTEMS)
- Check Status

Check MDDK Duct Screen

Hard reboot all PGSCs not shut down overnight, except: STS1 (OCA Router), STS5 (RPOP2) and STS6 (WLES)

[A] N2 REPRESS USING P/L N2 VLVS (ORB OPS, ECLS) Steps 1,3-7
MCC will TMBU S/W FDA

STS-131/19A FD06

GMT Date 03/23 (082) | W | TDRS E | Z | D/N | ORB | MET Day 004 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

06:00 07:00 08:00 09:00

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

72 73 74

BIAS-XLV-ZVV

MS1 MASTRACCHIO

- SLEEP
- EVA CREW: TAKE 1 ASPIRIN (325mg)
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- DOUG REVIEW Ref. MSG XXX

MS3 WILSON

- SLEEP
- SLEEP LOGBOOK (SDBI 1634)
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MS4 YAMAZAKI

- SLEEP
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- MERLIN STATUS CK (Cue Card)
- GLACIER STATUS CK (Cue Card)
- STL STATUS CK (Cue Card)
- DAILY TRANSFER LIST UPDATE Ref. Transfer List & MSG XXX

MS5 ANDERSON

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

STS-131/19A FD06

GMT Date 03/23 (082) | W | TDRS E | Z | D/N | ORB | MET Day 004 | STS ATI | CDR POINDEXTER | PLT DUTTON | MS2 METCALF-LINDENBURGER | NOTES

ORB: 74, 75, 76, 77

STS ATI: BIAS-XLV-ZVV

16:00

SHUTTLE/ISS H2O CONTAINER FILL (HC)
(ORB OPS, ECLS)
Perform CWC FILL #5, Ref. MSG XXX

OBSS FOCUSED INPSECTION
Ref. MSG XXX

OBSS FOCUSED INPSECTION
Ref. MSG XXX

10:00

17:00

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

11:00

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

N2 REPRESS TERM (On MCC GO) [B]

[B] N2 REPRESS USING P/L N2 VLVS
(ORB OPS, ECLS)
on MCC go, perform steps 8-13

18:00

12:00

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

19:00

OBSS MNVR TO EVA 2 VIEWING POSITION
(PDRS, OBSS NOMINAL)

OBSS MNVR TO EVA 2 VIEWING POSITION
(PDRS, OBSS NOMINAL)

CWC TRANSFER
Transfer 2 CWCs to ISS

13:00

MEAL

MEAL

MEAL

NO EXERCISE
(LCS IMAGERY)

20:00

STS-131/19A FD06

GMT Date 03/23 (082) | W | TDRS E | Z | D/N | ORB | MET Day 004 | STS ATI

MET: 16:00, 17:00, 18:00, 19:00, 20:00

ORB: 74, 75, 76, 77

STS ATI: BIAS-XLV-ZVV

MS1 MASTRACCHIO	MS3 WILSON	MS4 YAMAZAKI	MS5 ANDERSON	NOTES
	OBSS FOCUSED INPSECTION Ref. MSG XXX	2.110 WORF TRANSFER MPLM TO ISS (ASSY OPS, TRANSFER)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
TRANSFER OPS Ref. MPLM Transfer List		2.100 ZSR TRANSFER MPLM TO ISS (ASSY OPS, TRANSFER) CSS: 1.110 ZERO G STOWAGE RACK DEPLOY 2.104 RACK TRANSFER FROM MPLM TO ISS (EXPRESS-7, CO2, MARES) (ASSY OPS, TRANSFER) Perform for EXPRESS-7	TRANSFER OPS Ref. MPLM Transfer List	NO EXERCISE (LCS IMAGERY)
PUBLIC AFFAIRS EVENT ISS KU AVAIL (18:54-19:36)	PUBLIC AFFAIRS EVENT ISS KU AVAIL (18:54-19:36)		PUBLIC AFFAIRS EVENT ISS KU AVAIL (18:54-19:36)	
MEAL	MEAL	MEAL	MEAL	

STS-131/19A FD06

GMT Date 03/23 (082) | W | TDRS E | TDRS Z | D/N | ORB | MET Day 004 | STS ATI

CDR POINDEXTER | PLT DUTTON | MS2 METCALF-LINDENBURGER | NOTES

14:00
15:00
16:00
17:00

77
78
79
80

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

BIAS-XLV-ZVV

CDR

MEAL

S&M: 1.247 INTEGRATED STOWAGE PLATFORM (ISP) INSTALL
Steps 3.1-3.3

TRANSFER OPS
Ref. MPLM Transfer List

S&M: 1.247 INTEGRATED STOWAGE PLATFORM (ISP) INSTALL
Steps 3.1-3.3

TRANSFER OPS
Ref. MPLM Transfer List

S&M: 1.247 INTEGRATED STOWAGE PLATFORM (ISP) INSTALL
Steps 3.1-3.3

TRANSFER OPS
Ref. MPLM Transfer List

PUBLIC AFFAIRS EVENT
ISS KU AVAIL (23:14-23:59)

EVA 2 BRIEFING CARD (EVA, TIMELINES)
EVA 2 Procedure Review, Ref. MSG XXX

PLT

MEAL

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

TRANSFER OPS
Ref. MPLM Transfer List

PUBLIC AFFAIRS EVENT
ISS KU AVAIL (23:14-23:59)

EVA 2 BRIEFING CARD (EVA, TIMELINES)
EVA 2 Procedure Review, Ref. MSG XXX

MS2

MEAL

TRANSFER OPS
Ref. MPLM Transfer List

EVA 2 TOOL CONFIG
(EVA, TIMELINES)
Ref. CONSUMABLES TRACKING
CUE CARD
Ref. MSG XXX

TRANSFER OPS
Ref. MPLM Transfer List

PUBLIC AFFAIRS EVENT
ISS KU AVAIL (23:14-23:59)

EVA 2 BRIEFING CARD (EVA, TIMELINES)
EVA 2 Procedure Review, Ref. MSG XXX

STS-131/19A FD06

GMT Date 03/23 (082) | W | TDRS E | TDRS Z | D/N | ORB | MET Day 004 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

20:00

MEAL | MEAL | MEAL | MEAL

EVA SYSTEMS: 1.515 EMU METOX/LIOH/BATTERY REPLACEMENT
Ref. CONSUMABLES TRACKING CC
Ref. BATTERY RECHARGE CUE CARD
Record LiOH s/n on Cue Card; Report to MCC

S&M: 1.247 INTEGRATED STOWAGE PLATFORM (ISP) INSTALL
Steps 3-end

EVA SYSTEMS: 1.515 EMU METOX/LIOH/BATTERY REPLACEMENT
Ref. CONSUMABLES TRACKING CC
Ref. BATTERY RECHARGE CUE CARD
Record LiOH s/n on Cue Card; Report to MCC

14:00

EVA SYS: 1.605 BSA BATTERY RECHARGE
TERM Ref. CONSUMABLES TRACKING CUE CARD

EVA SYS: 1.605 BSA BATTERY RECHARGE
INITIATE
Ref. CONSUMABLES TRACKING CUE CARD
Ref. BATTERY RECHARGE CUE CARD

TRANSFER OPS
Ref. MPLM Transfer List

21:00

EVA 2 TOOL CONFIG
(EVA, TIMELINES)
Ref. CONSUMABLES TRACKING CUE CARD
Ref. MSG XXX

EVA 2 TOOL CONFIG
(EVA, TIMELINES)
Ref. CONSUMABLES TRACKING CUE CARD
Ref. MSG XXX

15:00

S&M: 1.247 INTEGRATED STOWAGE PLATFORM (ISP) INSTALL
Steps 3-end

EXERCISE

22:00

16:00

EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP
Omit DRINK BAG FILL

S&M: 1.261 RSP/RSR ROTATE DOWN
Step 3 to install pivot pin brackets in prep for RSP rotation

S&M: 1.247 INTEGRATED STOWAGE PLATFORM (ISP) INSTALL
Steps 3-end

EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP
Omit DRINK BAG FILL

23:00

SHUTTLE CONDENSATE COLLECTION
(ORB OPS, ECLS)
Perform CHANGEOUT, Ref. MSG XXX

17:00

EXERCISE

EXERCISE

EVA 2 BRIEFING CARD
(EVA, TIMELINES)
EVA 2 Procedure Review
Ref. MSG XXX

EVA 2 BRIEFING CARD
(EVA, TIMELINES)
EVA 2 Procedure Review
Ref. MSG XXX

EVA 2 BRIEFING CARD
(EVA, TIMELINES)
EVA 2 Procedure Review
Ref. MSG XXX

00:00

BIAS-XLV-ZVV

77 78 79 80

STS-131/19A FD06

GMT Date 03/23 (082) | W | T D R S E | Z | D / N | O R B | MET Day 005 | STS ATI

CDR POINDEXTER

- 00:00 — EVA 2 BRIEFING CARD (EVA, TIMELINES) EVA 2 Procedure Review, Ref. MSG XXX
- 01:00 — ILLUMINATOR OPS (Cue Card, TV) ILLUMINATOR ON - A,D
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS) Air Quality Report
- 02:00 — L9 PAYLOAD STATION A/G (two) - OFF PRIVATE MEDICAL CONFERENCE VIA A/G 2
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PLT DUTTON

- EVA 2 BRIEFING CARD (EVA, TIMELINES) EVA 2 Procedure Review, Ref. MSG XXX
- WCS FILTER CHECK [C]
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MS2 METCALF-LINDENBURGER

- EVA 2 BRIEFING CARD (EVA, TIMELINES) EVA 2 Procedure Review, Ref. MSG XXX
- [C] WCS Filter Check
  WCS CRADLE - AUTO INIBIT
  Inspect hose block filter, change if req'd
  WCS CRADLE - AUTO
- EXERCISE
- PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

NOTES

BIAS-XLV-ZVV

ORB: 80, 81, 82

STS-131/19A FD06

GMT Date 03/23 (082) | W | T D R S E | Z | D / N | O R B | MET Day 005 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

18:00 | 19:00 | 20:00 | 21:00

80 | 81 | 82

BIAS-XLV-ZVV

00:00

EVA 2 BRIEFING CARD
(EVA, TIMELINES)
EVA 2 Procedure Review
Ref. MSG XXX

EVA 2 BRIEFING CARD
(EVA, TIMELINES)
EVA 2 Procedure Review
Ref. MSG XXX

EXERCISE

EVA 2 BRIEFING CARD
(EVA, TIMELINES)
EVA 2 Procedure Review
Ref. MSG XXX

TRANSFER OPS
Ref. MPLM Transfer List

01:00

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

TRANSFER TAGUP
Coordinate with transfer counterparts

TRANSFER TAGUP
Coordinate with transfer counterparts

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

TRANSFER BRIEF
Call down status to MCC

MERLIN STATUS CK (Cue Card)
GLACIER STATUS CK (Cue Card)
STL STATUS CK (Cue Card)
AEM UNIT#1 CK (Cue Card)
AEM UNIT#2 CK (Cue Card)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

02:00

EVA SYSTEMS: 1.206 10.2 PSIA
CAMPOUT MASK PREBREATHE

EVA SYSTEMS: 1.206 10.2 PSIA
CAMPOUT MASK PREBREATHE

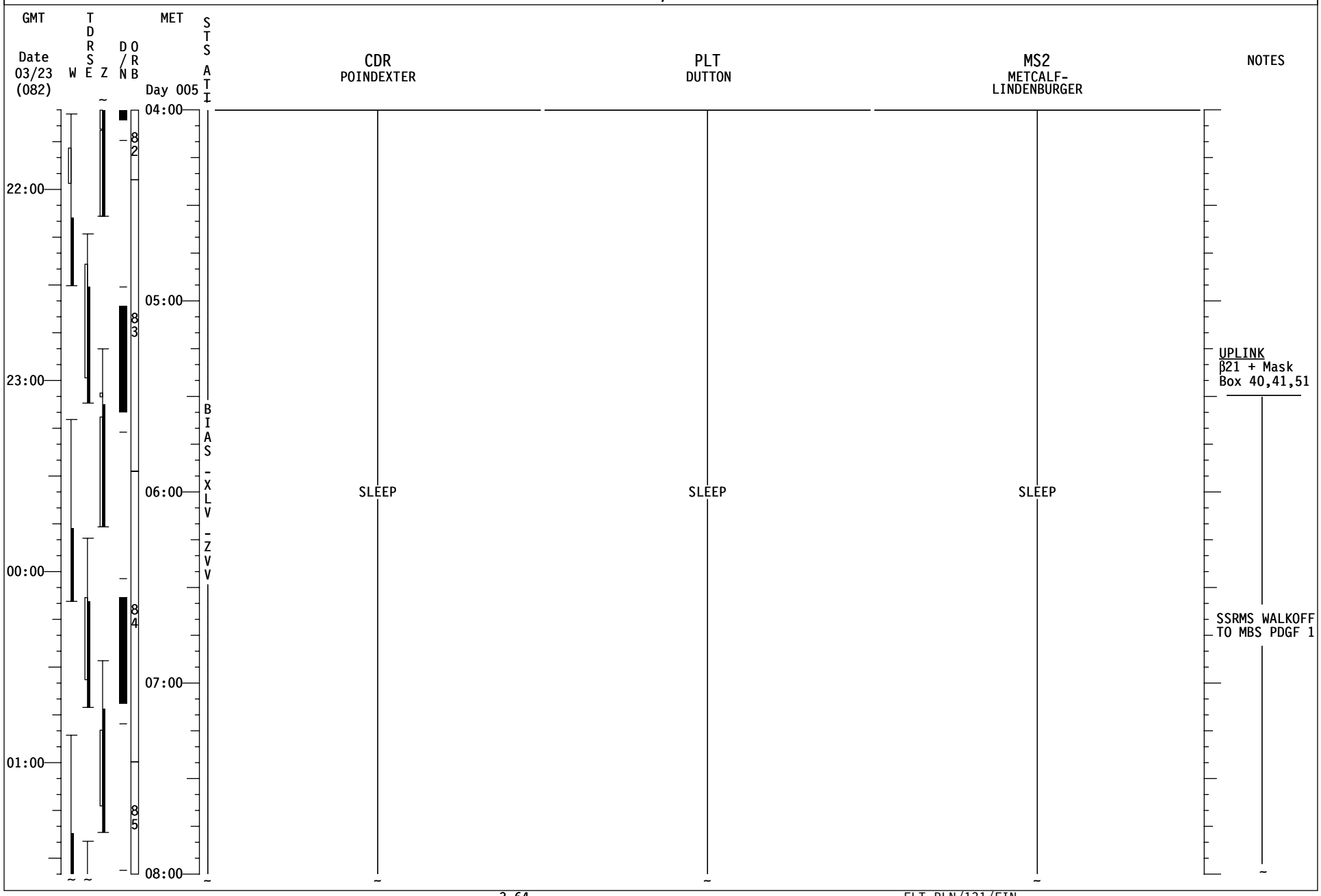
03:00

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

04:00

STS-131/19A FD06



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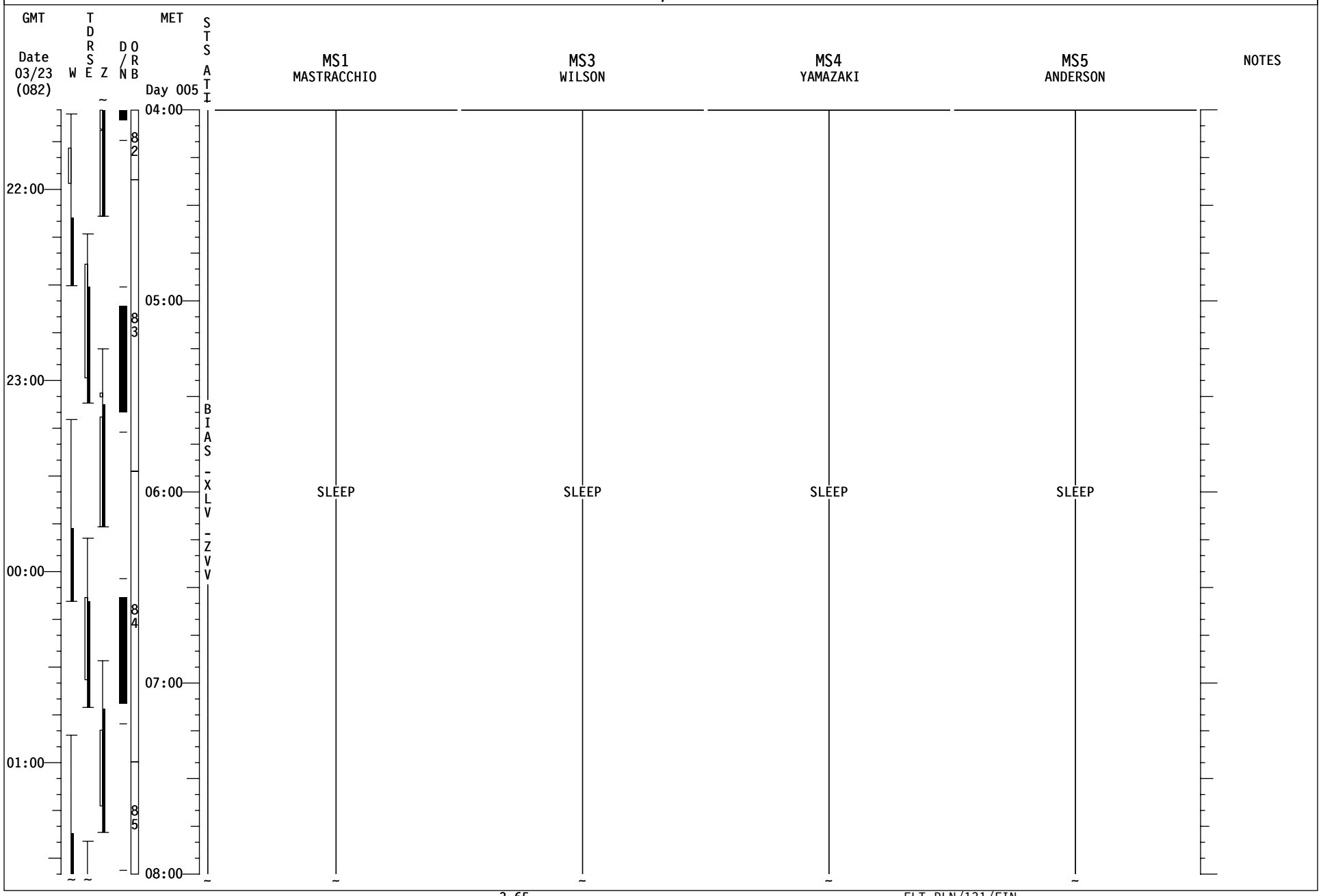

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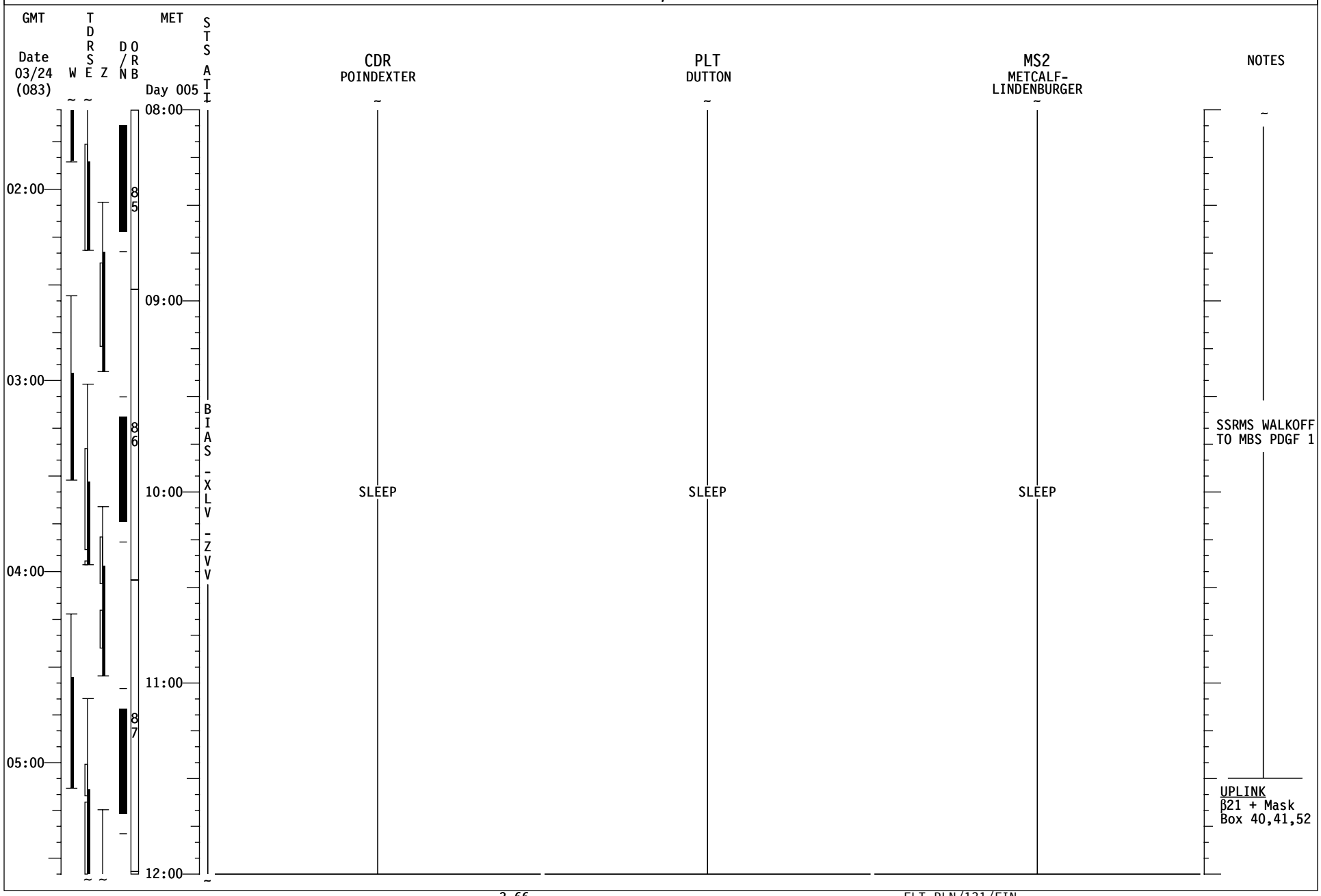

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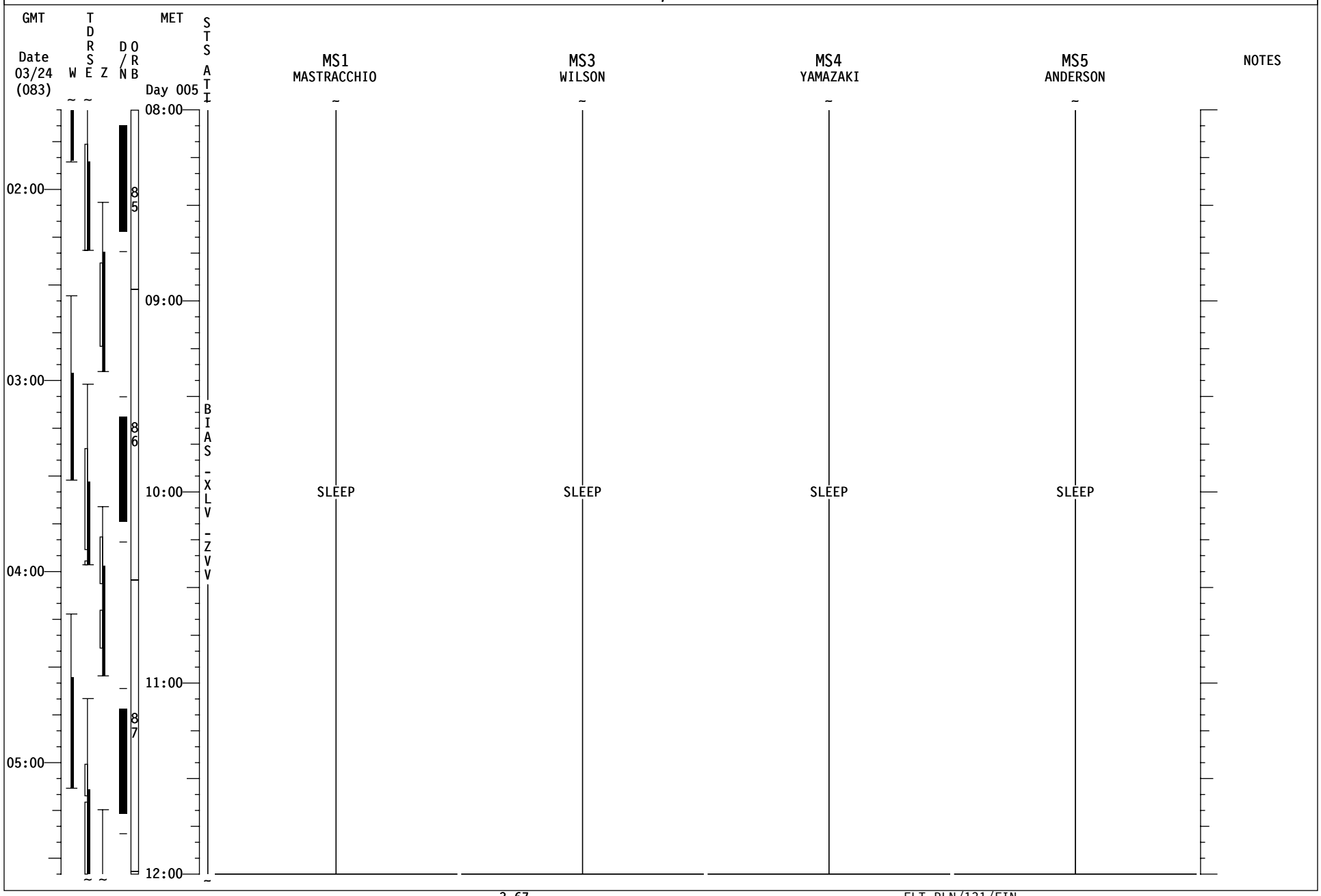


STS-131/19A FD07

GMT Date 03/24 (083) | W | T D R S E | Z | D/N | O R B | MET Day 005 | STS ATI

CDR POINDEXTER | PLT DUTTON | MS2 METCALF-LINDENBURGER | NOTES

06:00 | 07:00 | 08:00 | 09:00

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

88 | 89 | 90

BIAS-XLV-ZVV

CDR

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
√HUM SEP for H2O accumulation

L9 PAYLOAD STATION A/G (two) - OFF
PRIVATE MEDICAL CONFERENCE VIA A/G 2

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

ILLUMINATOR OPS (Cue Card, TV)
ILLUMINATOR OFF - ALL

EVA 2 INHIBIT PAD
(EVA, TIMELINES)

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

TRANSFER OPS
Ref. MPLM Transfer List

PLT

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EVA SYSTEMS: 1.211 HYGIENE BREAK
Steps 21-end. MCC-H will perform step 23.

EVA SYSTEMS: 1.216 EVA PREP

EVA SYSTEMS: 1.220 EMU PURGE

EVA SYSTEMS: 1.225 EMU PREBREATHE

MS2

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

FD07 EZ ACTIVITIES:
TEPC (ORB OPS, CREW SYSTEMS)
Check Status
OCAC Filter Inspection
Check MDDK Duct Screen
Hard reboot all PGSCs not shut down overnight, except: STS1 (OCA Router), STS5 (RPOP2) and STS6 (WLES)

L17 Check MCIU filter screen

TRANSFER OPS
Ref. MPLM Transfer List

IVA SUPPORT PREP

STS-131/19A FD07

GMT Date 03/24 (083) | W | TDRS E | Z | D/N | ORB 88 89 90 | MET Day 005 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

12:00

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

SLEEP LOGBOOK (SDBI 1634)
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

SLEEP LOGBOOK (SDBI 1634)
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

06:00

EVA SYSTEMS: 1.211 HYGIENE BREAK
MCC-H will perform steps 1-4, 16-20, and 23.

EVA SYSTEMS: 1.211 HYGIENE BREAK
MCC-H will perform steps 1-4, 16-20, and 23.

13:00

07:00

BIAS_XLV-ZVV

EVA SYSTEMS: 1.216 EVA PREP

EVA SYSTEMS: 1.216 EVA PREP

14:00

08:00

DAILY TRANSFER LIST UPDATE
Ref. Transfer List & MSG XXX

15:00

MERLIN STATUS CK (Cue Card)
GLACIER STATUS CK (Cue Card)
STL STATUS CK (Cue Card)

EXERCISE

EVA SYSTEMS: 1.220 EMU PURGE

EVA SYSTEMS: 1.220 EMU PURGE

09:00

TRANSFER OPS
Ref. MPLM Transfer List

EVA SYSTEMS: 1.225 EMU PREBREATHE

EVA SYSTEMS: 1.225 EMU PREBREATHE

TRANSFER OPS
Ref. MPLM Transfer List

16:00

STS-131/19A FD07

GMT Date 03/24 (083) | W | TDRS E | Z | D/N | ORB | MET Day 005 | STS ATI

CDR POINDEXTER | PLT DUTTON | MS2 METCALF-LINDENBURGER | NOTES

16:00

EVA SYSTEMS: 1.225 EMU PREBREATHE

TRANSFER OPS
Ref. MPLM Transfer List

90

10:00

EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD
Perform CREWLOCK DEPRESS

IVA SUPPORT PREP

UPLINK
β21 + Mask
Box 40,41,50

P/TV07 EVA
(P/TV, SCENES)
SETUP

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

17:00

C-LK DPRS/RPRS CC (POST DEPRESS)

ROBO: 1.310 EVA 2 SUPPORT

91

11:00

NO UNISOLATED EXERCISE (WHILE CREW IN APFR)

BIAS-XLV

18:00

IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)

-ZVV

12:00

IVA SUPPORT FOR EVA 2

MEAL

92

19:00

SHUTTLE/ISS H2O CONTAINER FILL (HC)
(ORB OPS, ECLS)
Perform CWC FILL #7, Ref. MSG XXX

13:00

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

93

20:00

STS-131/19A FD07

GMT Date 03/24 (083) | W | TDRS E | Z | D/N | ORB | MET Day 005 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

16:00
- MS1: EVA SYSTEMS: 1.225 EMU PREBREATHE
- MS5: EVA SYSTEMS: 1.225 EMU PREBREATHE

10:00
- MS3: TRANSFER OPS Ref. MPLM Transfer List
- MS1: EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD Perform CREWLOCK DEPRESS
- MS5: EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD Perform CREWLOCK DEPRESS
- MS3: POC: 2.7.501 DOUG STARTUP PROCEDURE Step 1
- MS1: C-LK DPRS/RPRS CC (POST DEPRESS)
- MS3: ROBO: 1.310 EVA 2 SUPPORT
- MS5: C-LK DPRS/RPRS CC (POST DEPRESS)

17:00
- MS1: EGRESS
- MS5: EGRESS
- MS4: TRANSFER OPS Ref. MPLM Transfer List

11:00
- MS1: RELEASE S1 ATA & H/O TO SSRMS
- MS5: RELEASE S1 ATA & H/O TO SSRMS
- NOTES: NO UNISOLATED EXERCISE (WHILE CREW IN APFR)

18:00
- MS1: TIEDOWN OLD ATA TO CETA CART
- MS5: TIEDOWN OLD ATA TO CETA CART

12:00

19:00
- MS4: MEAL
- MS1: P1 RAD GF STOW BEAM INSTL
- MS5: P1 RAD GF STOW BEAM INSTL

13:00
- MS4: 19A GLACIER TRANSFER AND INSTALLATION (ASSY OPS, PAYLOADS)
- MS1: AGB RELEASE
- MS5: AGB RELEASE

20:00
- MS1: INSTALL ATA ON S1
- MS5: INSTALL ATA ON S1

ORB: 90, 91, 92, 93

STS ATI: BIAS-XLV-ZVV

STS-131/19A FD07

GMT Date 03/24 (083) | W | TDRS E | Z | D/N | ORB | MET Day 005 | STS ATI

CDR POINDEXTER | PLT DUTTON | MS2 METCALF-LINDENBURGER | NOTES

20:00

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

ROBO: 1.310 EVA 2 SUPPORT

14:00

93

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

CWC TRANSFER
Transfer 2 CWCs to ISS

NO UNISOLATED EXERCISE (WHILE CREW IN APFR)

21:00

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

15:00

BIAS-XLV-ZVV

IVA SUPPORT FOR EVA 2

94

22:00

16:00

NO UNISOLATED EXERCISE (WHILE CREW ON ESP#2)

23:00

P/TV07 EVA (DEACTIVATION)
(P/TV, SCENES)

95

17:00

C-LK DPRS/RPRS CC (PRE REPRESS)

EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD
Perform CREWLOCK REPRESS

TRANSFER OPS
Ref. MPLM Transfer List

EVA SYSTEMS: 1.240 POST EVA
With EMU H2O Recharge, No METOX
Ref. CONSUMABLES TRACKING CUE CARD

TRANSFER OPS
Ref. MPLM Transfer List

00:00

STS-131/19A FD07

GMT Date 03/24 (083) | W | TDRS E | Z | D/N | ORB | MET Day 005 | STS ATI

20:00 — 21:00 — 22:00 — 23:00 — 00:00

14:00 — 15:00 — 16:00 — 17:00

ORB: 93 — 94 — 95

STS ATI: BIAS-XLV-ZVV

MS1 MASTRACCHIO	MS3 WILSON	MS4 YAMAZAKI	MS5 ANDERSON	NOTES
INSTALL ATA ON S1	ROBO: 1.31O EVA 2 SUPPORT	19A GLACIER TRANSFER AND INSTALLATION (ASSY OPS, PAYLOADS)	INSTALL ATA ON S1	NO UNISOLATED EXERCISE (WHILE CREW IN APFR)
S1 ATA CONNECTORS			APFR RELOCATE	
RELEASE CETA ATA & INSTALL AGB		TRANSFER OPS Ref. MPLM Transfer List	RELEASE CETA ATA & INSTALL AGB	
A/L MMOD SHIELDS			A/L MMOD SHIELDS	NO UNISOLATED EXERCISE (WHILE CREW ON ESP#2)
INGRESS			INGRESS	
C-LK DPRS/RPRS CC (PRE REPRESS)			C-LK DPRS/RPRS CC (PRE REPRESS)	
EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD Perform CREWLOCK REPRESS	2.12O TeSS TRANSFER FROM ISS TO MPLM (ASSY OPS, TRANSFER)	2.12O TeSS TRANSFER FROM ISS TO MPLM (ASSY OPS, TRANSFER)	EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD Perform CREWLOCK REPRESS	
EVA SYSTEMS: 1.24O POST EVA With EMU H2O Recharge, No METOX Ref. CONSUMABLES TRACKING CUE CARD			EVA SYSTEMS: 1.24O POST EVA With EMU H2O Recharge, No METOX Ref. CONSUMABLES TRACKING CUE CARD	

STS-131/19A FD07

GMT Date 03/24 (083) | W | T D R S E Z | D/N | O R B | MET Day 006 | STS ATI

CDR POINDEXTER | PLT DUTTON | MS2 METCALF-LINDENBURGER | NOTES

00:00

EVA SYSTEMS: 1.240 POST EVA
With EMU H2O Recharge, No METOX
Ref. CONSUMABLES
TRACKING CUE CARD

UPLINK
β21 + Mask
Box 40,41,52

18:00

TRANSFER OPS
Ref. MPLM Transfer List

TRANSFER OPS
Ref. MPLM Transfer List

ILLUMINATOR OPS (Cue Card, TV)
ILLUMINATOR ON - A,D

01:00

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

19:00

EXERCISE

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

BIAS-XLV-ZVV

02:00

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
Air Quality Report

20:00

L9 PAYLOAD STATION A/G (two) - OFF
PRIVATE MEDICAL CONFERENCE VIA A/G 2

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

03:00

21:00

04:00

UPLINK
β21 + Mask
Box 40,41,51

STS-131/19A FD07

GMT Date 03/24 (083) | W | TDRS E | TDRS Z | D/N | ORB | MET Day 006 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

ORB: 95, 96, 97, 98

STS ATI: BIAS-XLV-ZVV

00:00

MS1: EVA SYSTEMS: 1.240 POST EVA
With EMU H2O Recharge, No METOX
Ref. CONSUMABLES
TRACKING CUE CARD

MS3: 2.120 TeSS TRANSFER FROM ISS TO MPLM
(ASSY OPS, TRANSFER)

MS4: 2.120 TeSS TRANSFER FROM ISS TO MPLM
(ASSY OPS, TRANSFER)

MS5: EVA SYSTEMS: 1.240 POST EVA
With EMU H2O Recharge, No METOX
Ref. CONSUMABLES
TRACKING CUE CARD

18:00

MS4: PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

01:00

MS1: PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS3: TRANSFER OPS
Ref. MPLM Transfer List

MS5: PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

19:00

MS3: MERLIN STATUS CK (Cue Card)
GLACIER STATUS CK (Cue Card)
STL STATUS CK (Cue Card)
AEM UNIT#1 CK (Cue Card)
AEM UNIT#2 CK (Cue Card)

MS3: TRANSFER TAGUP
Coordinate with transfer counterparts

MS4: TRANSFER TAGUP
Coordinate with transfer counterparts

02:00

MS3: PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS4: TRANSFER BRIEF
Call down status to MCC

20:00

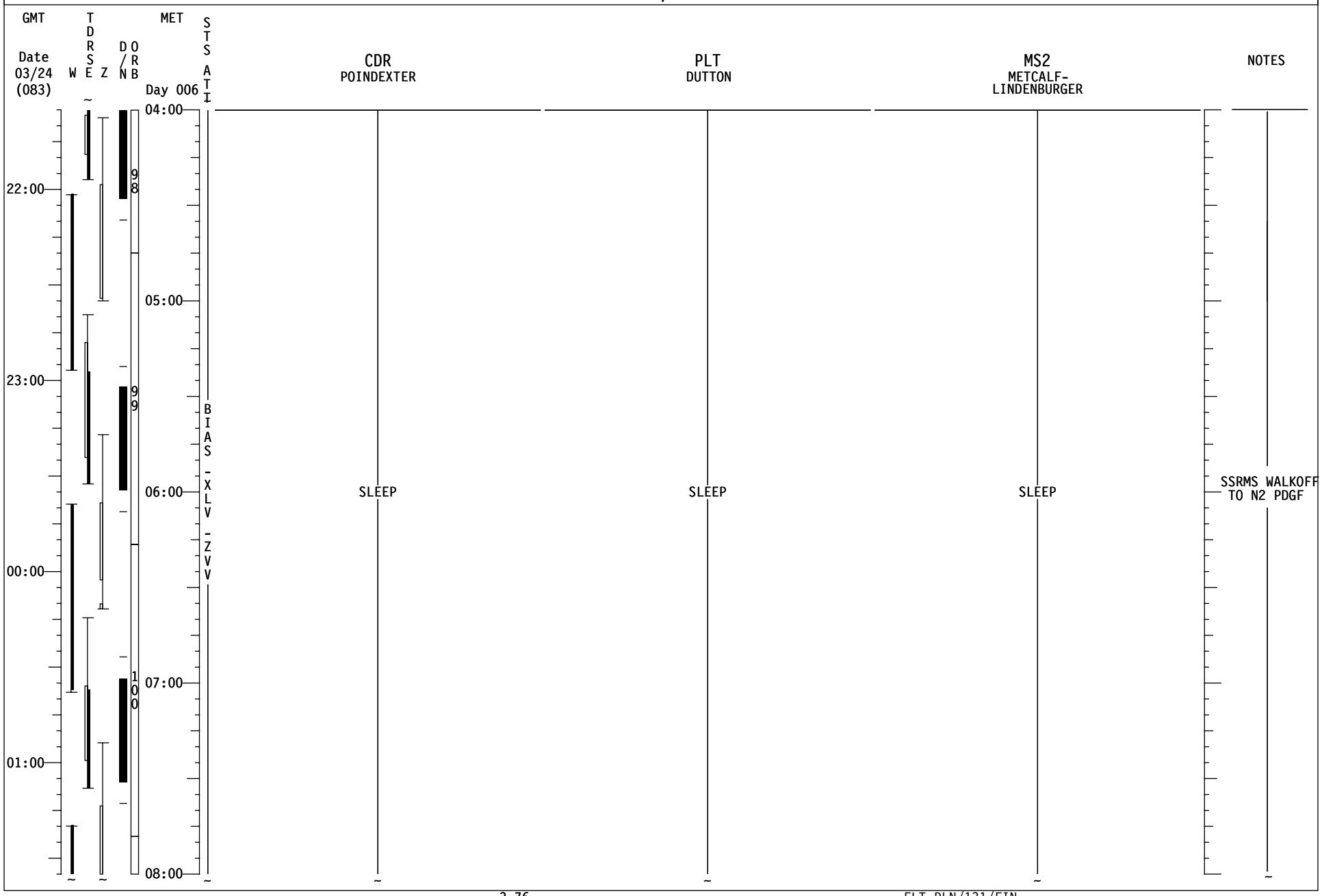
MS4: PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

03:00

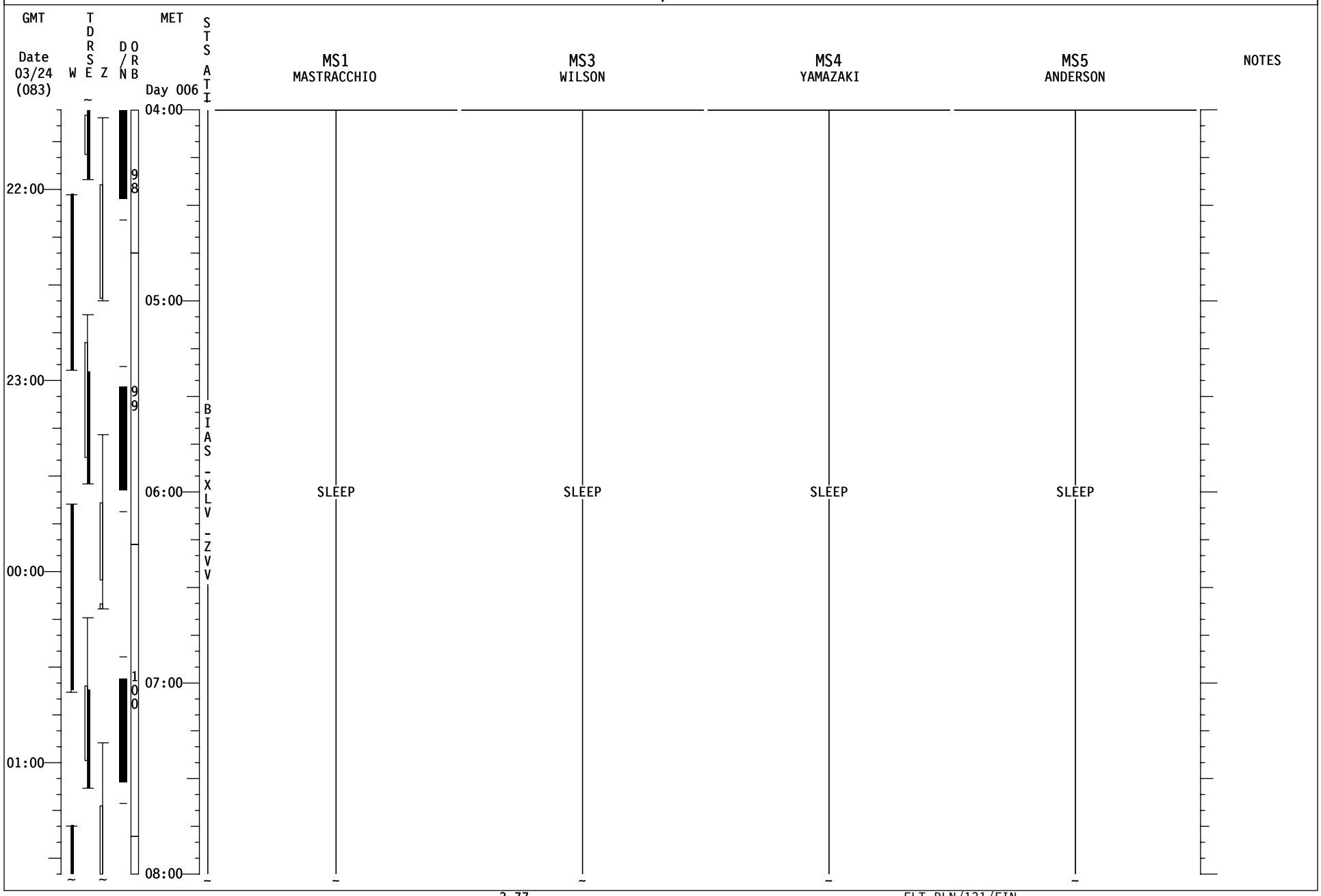
21:00

04:00

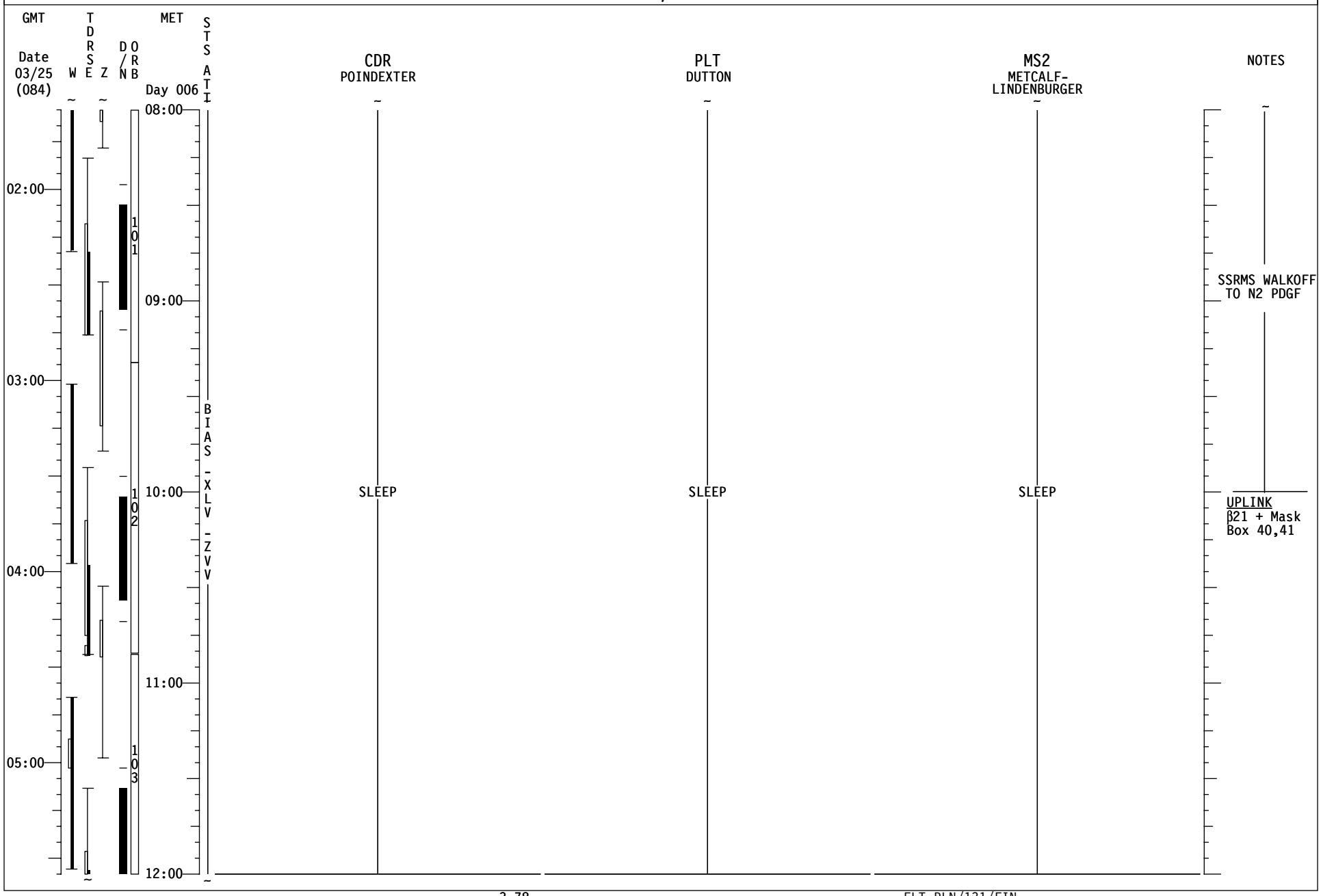
STS-131/19A FD07



STS-131/19A FD07



STS-131/19A FD07



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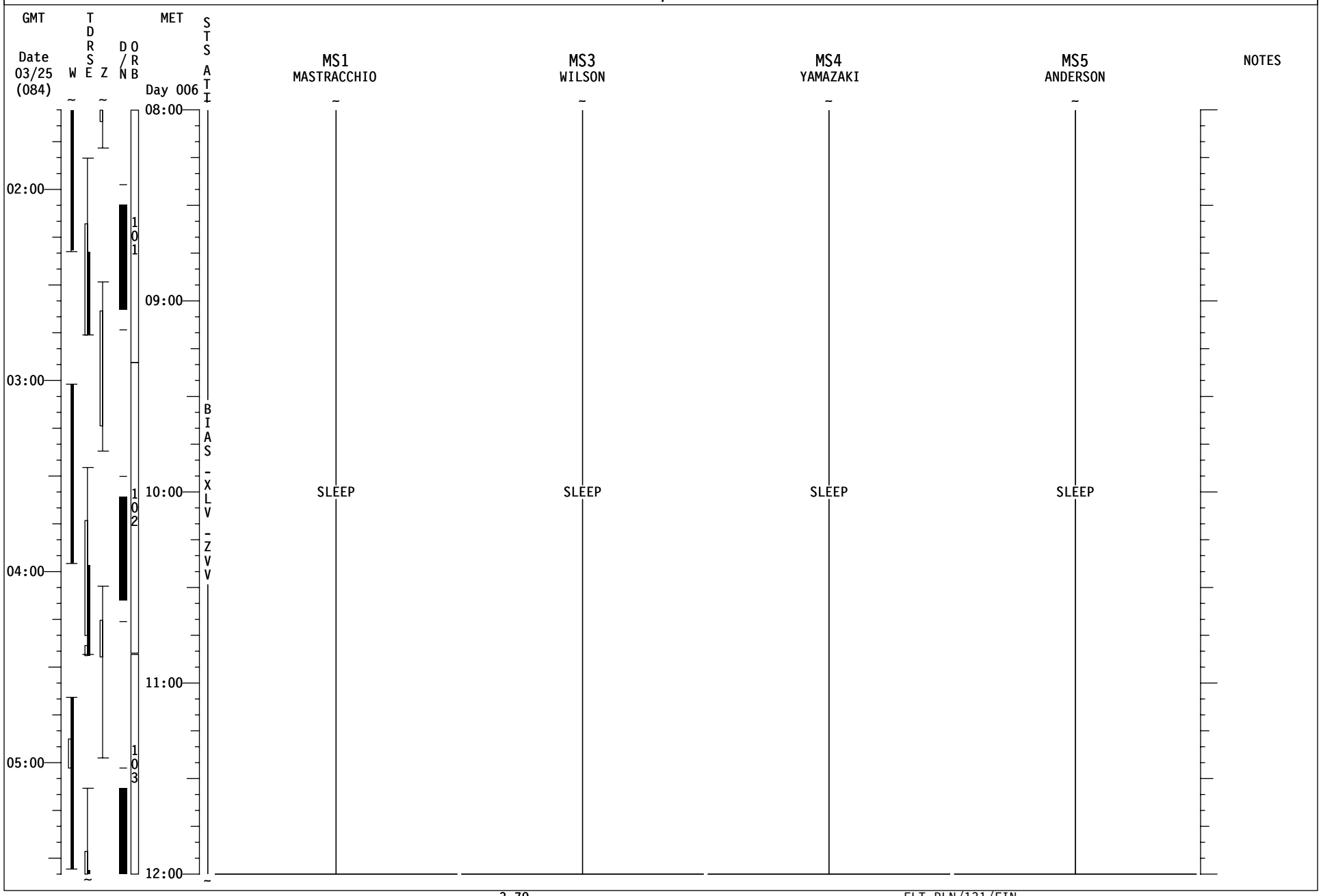


STS-131/19A FD08

GMT Date 03/25 (084) | W | TDRS E | Z | D/N | ORB | MET Day 006 | STS ATI

CDR POINDEXTER | PLT DUTTON | MS2 METCALF-LINDENBURGER | NOTES

12:00 — 13:00 — 14:00 — 15:00 — 16:00

06:00 — 07:00 — 08:00 — 09:00

ORB: 103 — 104 — 105 — 106

STS ATI: BIAS-XLV-ZVV

FD08 EZ ACTIVITIES:
TEPC (ORB OPS, CREW SYSTEMS)
Check Status
OCAC Filter Inspection
Check MDDK Duct Screen
Hard reboot all PGSCs not shut down overnight, except: STS1 (OCA Router), STS5 (RPOP2) and STS6 (WLES)

CDR POINDEXTER

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

GATHER DUMP EQUIPMENT
Ref. MSG XXX

OFF DUTY

PLT DUTTON

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

ILLUMINATOR OPS (Cue Card, TV)
ILLUMINATOR OFF - ALL

IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)

OBSS MNVR TO MPLM VIEWING POSITION (PDRS, OBSS NOMINAL)

OFF DUTY

MS2 METCALF-LINDENBURGER

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

L17 Check MCIU filter screen

OBSS MNVR TO MPLM VIEWING POSITION (PDRS, OBSS NOMINAL)

OFF DUTY

EXERCISE

STS-131/19A FD08

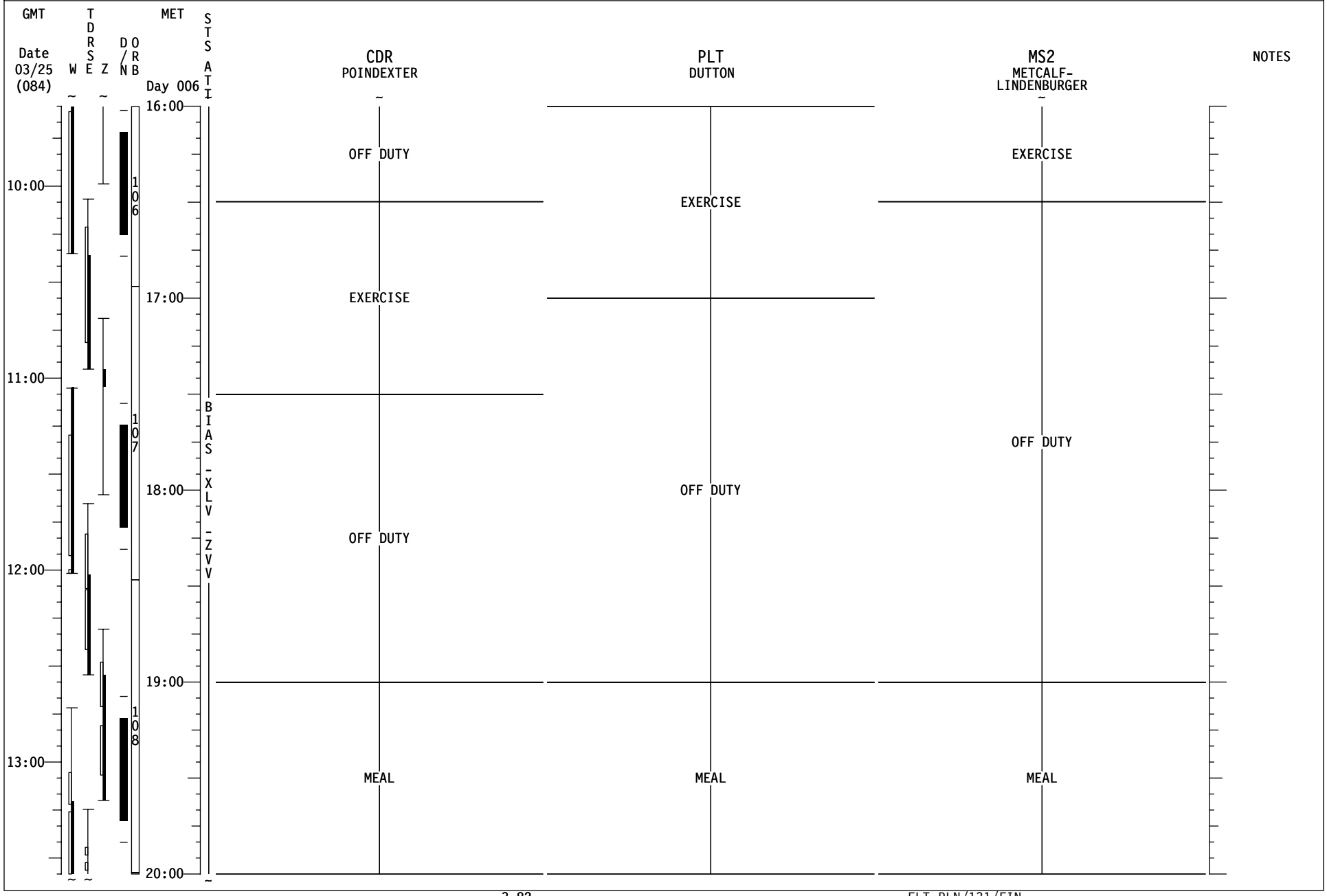
GMT Date 03/25 (084) | W | TDRS E | Z | D/N | ORB | MET Day 006 | STS ATI

ORB: 103, 104, 105, 106

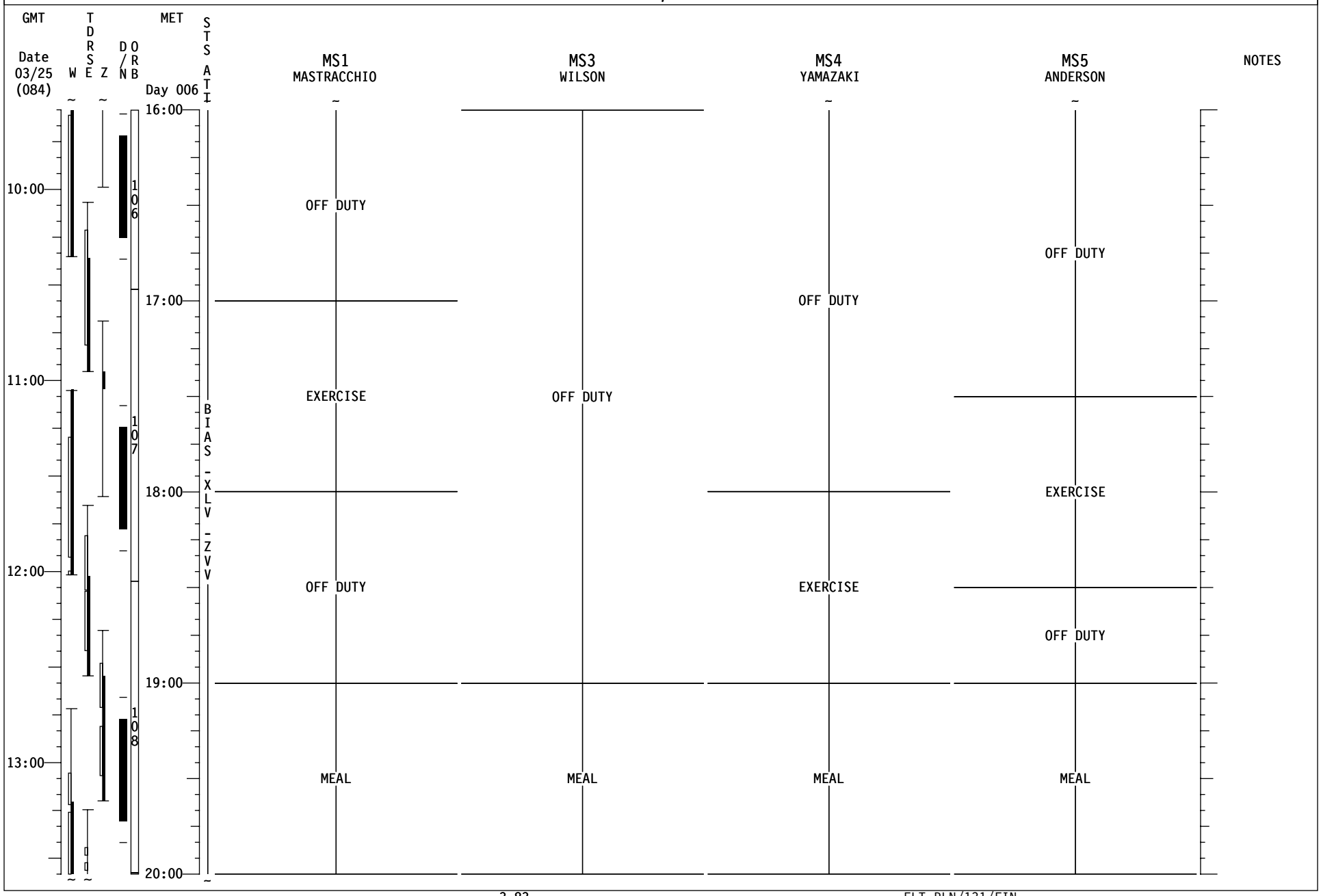
STS ATI: BIAS-XLV-ZVV

GMT	MET	MS1 MASTRACCHIO	MS3 WILSON	MS4 YAMAZAKI	MS5 ANDERSON	NOTES
	12:00	EVA CREW: TAKE 1 ASPIRIN (325mg) POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	SLEEP LOGBOOK (SDBI 1634) POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	EVA CREW: TAKE 1 ASPIRIN (325mg) POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
06:00						
	13:00					
07:00						
	14:00					
08:00			19A GLACIER RECORD QUICK DIAGNOSTIC DATA (Nominal) (ASSY OPS, PAYLOADS) MERLIN STATUS CK (Cue Card) STL STATUS CK (Cue Card)	PUBLIC AFFAIRS EVENT ISS KU AVAIL (14:16-14:54)		
			DAILY TRANSFER LIST UPDATE Ref. Transfer List & MSG XXX	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
	15:00					
09:00		OFF DUTY	EXERCISE	OFF DUTY	OFF DUTY	
	16:00					

STS-131/19A FD08



STS-131/19A FD08



STS-131/19A FD08

GMT Date 03/25 (084) | W | TDRS E | Z | D/N | ORB | MET Day 006 | STS ATI

CDR POINDEXTER | **PLT** DUTTON | **MS2** METCALF-LINDENBURGER | NOTES

20:00

OFF DUTY

[B] N2 REPRESS USING P/L N2 VLVS
(ORB OPS, ECLS) Steps 1,3-7
MCC will TMBU S/W FDA

OFF DUTY

OFF DUTY

14:00

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

H/O ATT CNTRL CMG TA TO ORB [A]

MNVR (TRK) BIAS -XLV -ZVV (Dump)
TG=2 BV=5 P=163 Y=0 OM=193
A12/AUTO/VERN, Init TRK. When in Att., DAP: B12

ERCA RETRIEVE
Ref. MPLM Transfer List
Item #X

N2 REPRESS INIT [B]

CWC OVERBOARD DUMP (Init)
(ORB OPS, ECLS)
Ref. MSG XXX

109

21:00

P/TV09 MIDDECK PAYLOADS
(PHOTO/TV, SCENES)
SETUP

BIAS -XLV -ZVV DUMP

TRANSFER OPS
Ref. MPLM Transfer List

15:00

[A] √A12/FREE/VERN
When ISS in Free Drift, DAP: LVLH,
When jet activity stopped for > 5 sec,
DAP: FREE > 2 sec, Then DAP: AUTO

P/T09 MIDDECK PAYLOADS
(P/TV, SCENES)
OPS, Item 1 for GLACIER

TRANSFER OPS
Ref. MPLM Transfer List

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

CWC OVERBOARD DUMP (Term)
(ORB OPS, ECLS)
Ref. MSG XXX

22:00

CWC TRANSFER
Transfer 2 CWCs to ISS

PWR DUMP-SUPPLY LINE
(ORB OPS, ECLS)
Ref. MSG XXX

110

16:00

EVA 3 TOOL CONFIG
(EVA, TIMELINES)
Ref. CONSUMABLES TRACKING CUE CARD
Ref. MSG XXX

TRANSFER OPS
Ref. MPLM Transfer List

MNVR (TRK) BIAS -XLV -ZVV (Mated TEA)
TG=2 BV=5 P=162.72 Y=359.90 OM=167.11
A12/AUTO/VERN, Init TRK

23:00

When ISS is GO for deadband collapse, DAP: B13

N2 REPRESS TERM (On MCC GO) [C]

ERCA STOW
Ref. MPLM Transfer List
Item #X

NO EXERCISE (ATT RATES SETTLING)

BIAS -XLV -ZVV

When ISS is GO for attitude cntrl,DAP: FREE
DAP: A12/FREE/VERN
Reload DAP: B12

111

17:00

EVA 3 BRIEFING CARD
(EVA, TIMELINES)
EVA 3 Procedure Review
Ref. MSG XXX

EVA 3 BRIEFING CARD
(EVA, TIMELINES)
EVA 3 Procedure Review
Ref. MSG XXX

EVA 3 BRIEFING CARD
(EVA, TIMELINES)
EVA 3 Procedure Review
Ref. MSG XXX

[C] N2 REPRESS USING P/L N2 VLVS
(ORB OPS, ECLS)
on MCC go, perform steps 8-13
MCC will TMBU S/W FDA

00:00

STS-131/19A FD08

GMT Date 03/25 (084) | W | TDRS E | Z | D/N | ORB | MET Day 006 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

20:00

OFF DUTY (MS1, MS3, MS4, MS5)

14:00

EVA SYS: 1.605 BSA BATTERY RECHARGE
TERM Ref. CONSUMABLES TRACKING CC

EVA SYSTEMS: 1.515 EMU METOX/LIOH/BATTERY REPLACEMENT
Ref. CONSUMABLES TRACKING CC
Ref. BATTERY RECHARGE CUE CARD
Record LiOH s/n on Cue Card; Report to MCC

GLACIER STATUS CK (Cue Card)

EVA SYSTEMS: 1.515 EMU METOX/LIOH/BATTERY REPLACEMENT
Ref. CONSUMABLES TRACKING CC
Ref. BATTERY RECHARGE CUE CARD
Record LiOH s/n on Cue Card; Report to MCC

109

21:00

BIAS-XLV-ZVV DUMP

EVA SYS: 1.403 REBA POWERED HARDWARE CHECKOUT [D]
Steps 1-2,7-8,10-11,and 14
Ref. CONSUMABLES TRACKING CC

TRANSFER OPS
Ref. MPLM Transfer List

EVA SYS: 1.403 REBA POWERED HARDWARE CHECKOUT [D]
Steps 1-2,7-8,10-11,and 14
Ref. CONSUMABLES TRACKING CC

15:00

EVA 3 TOOL CONFIG
(EVA, TIMELINES)
Ref. CONSUMABLES TRACKING CC
Ref. MSG XXX

19A SAMPLE TRANSFER FROM MELFI TO GLACIER
(ASSY OPS, PAYLOADS)

EVA 3 TOOL CONFIG
(EVA, TIMELINES)
Ref. CONSUMABLES TRACKING CC
Ref. MSG XXX

TRANSFER OPS
Ref. MPLM Transfer List

22:00

LOCKING GLACIER DOOR (ASSY OPS, PAYLOADS)

[D] CAMR ID ASSIGNMENT
(Cue Card, WVS)

EMU TV Camr Address	19	20
Serial Number	1004	1006
Label	EV1	EV2

110

16:00

TRANSFER OPS
Ref. MPLM Transfer List

23:00

BIAS-XLV-ZVV

EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP
Omit DRINK BAG FILL

19A GLACIER RECORD QUICK DIAGNOSTIC DATA (Nominal)
(ASSY OPS, PAYLOADS)

EVA SYSTEMS: 1.305 EQUIPMENT LOCK PREP
Omit DRINK BAG FILL

NO EXERCISE (ATT RATES SETTLING)

17:00

111

EVA 3 BRIEFING CARD
(EVA, TIMELINES)
EVA 3 Procedure Review
Ref. MSG XXX

EVA 3 BRIEFING CARD
(EVA, TIMELINES)
EVA 3 Procedure Review
Ref. MSG XXX

TRANSFER OPS
Ref. MPLM Transfer List

EVA 3 BRIEFING CARD
(EVA, TIMELINES)
EVA 3 Procedure Review
Ref. MSG XXX

00:00

STS-131/19A FD08

GMT Date 03/25 (084) | W | TDRS E | TDRS Z | D/N | ORB | MET Day 007 | STS ATI

CDR POINDEXTER | **PLT** DUTTON | **MS2** METCALF-LINDENBURGER | NOTES

00:00

EVA 3 BRIEFING CARD
(EVA, TIMELINES)
EVA 3 Procedure Review
Ref. MSG XXX

PUBLIC AFFAIRS EVENT
ISS KU AVAIL (00:06-00:46)

TRANSFER TAGUP
Coordinate with transfer counterparts

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
Air Quality Report

01:00

02:00

03:00

04:00

18:00

19:00

20:00

21:00

111

112

113

114

BIAS-XLV-ZVV

L9 PAYLOAD STATION AUDIO A/G (two) - OFF
NETMEETING VIDEO CONFERENCING
(ORB OPS, PGSC) Private Medical Conference
Omit steps 1.2 and 3, Use A/G2 for audio,
Inform MCC which PGSC will be used. KU TDRZ (01:40-02:00)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

EVA 3 BRIEFING CARD
(EVA, TIMELINES)
EVA 3 Procedure Review
Ref. MSG XXX

PUBLIC AFFAIRS EVENT
ISS KU AVAIL (00:06-00:46)

ILLUMINATOR OPS (Cue Card, TV)
ILLUMINATOR ON - A,D

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

EVA 3 BRIEFING CARD
(EVA, TIMELINES)
EVA 3 Procedure Review
Ref. MSG XXX

PUBLIC AFFAIRS EVENT
ISS KU AVAIL (00:06-00:46)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

OCA-PMC

STS-131/19A FD08

GMT Date 03/25 (084) | W | T D R S E | Z | D / N | O R B | MET Day 007 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

00:00

EVA 3 BRIEFING CARD
(EVA, TIMELINES)
EVA 3 Procedure Review
Ref. MSG XXX

TRANSFER OPS
Ref. MPLM Transfer List

111

18:00

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PUBLIC AFFAIRS EVENT
ISS KU AVAIL (00:06-00:46)

AEM UNIT#1 CK (Cue Card)
AEM UNIT#2 CK (Cue Card)
MERLIN STATUS CK (Cue Card)
STL STATUS CK (Cue Card)

TRANSFER TAGUP
Coordinate with transfer counterparts

01:00

112

19:00

TRANSFER BRIEF
Call down status to MCC

BIAS-XLV-ZVV

02:00

EVA SYSTEMS: 1.206 10.2 PSIA
CAMPOUT MASK PREBREATHE

20:00

113

03:00

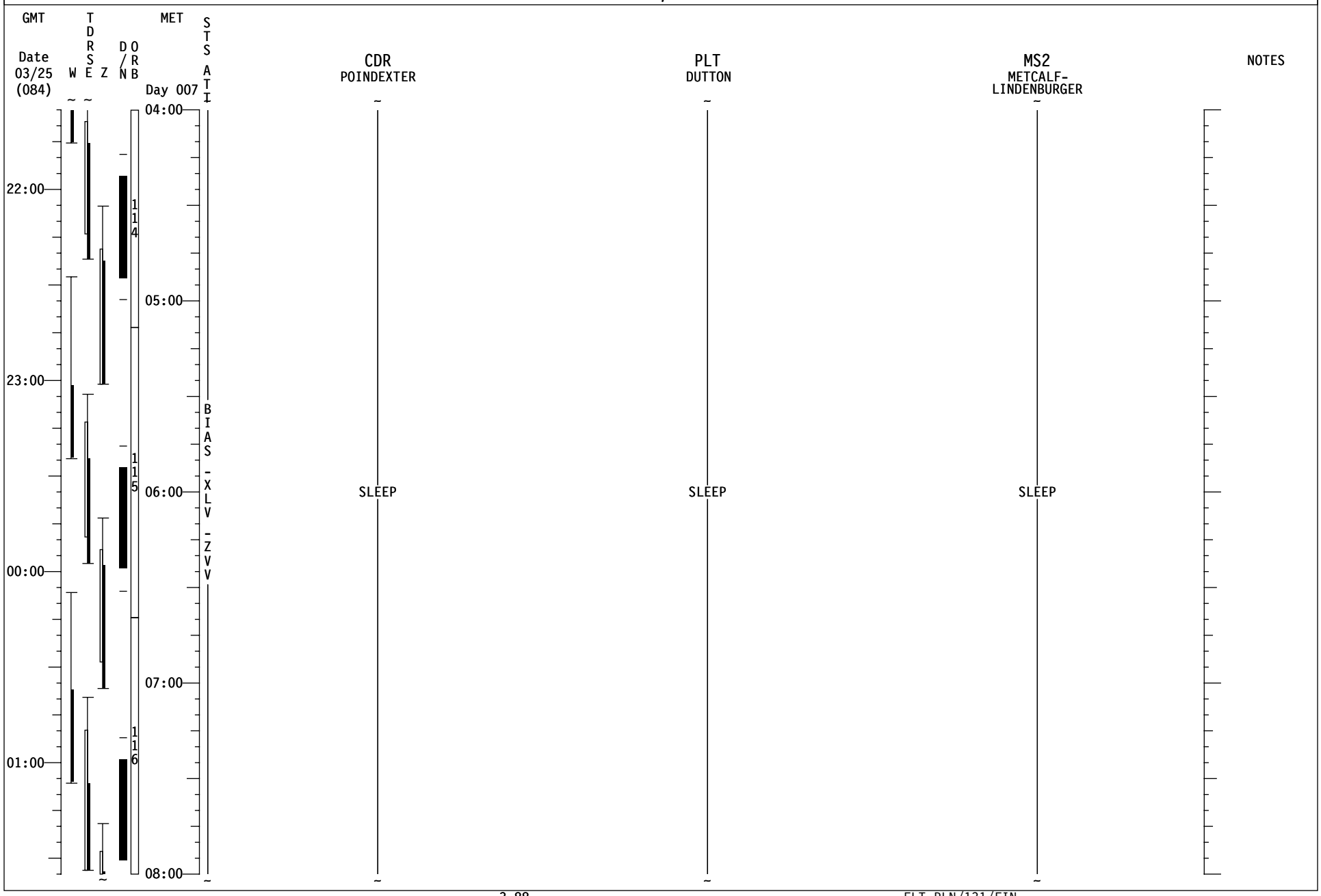
21:00

114

04:00

SLEEP

STS-131/19A FD08



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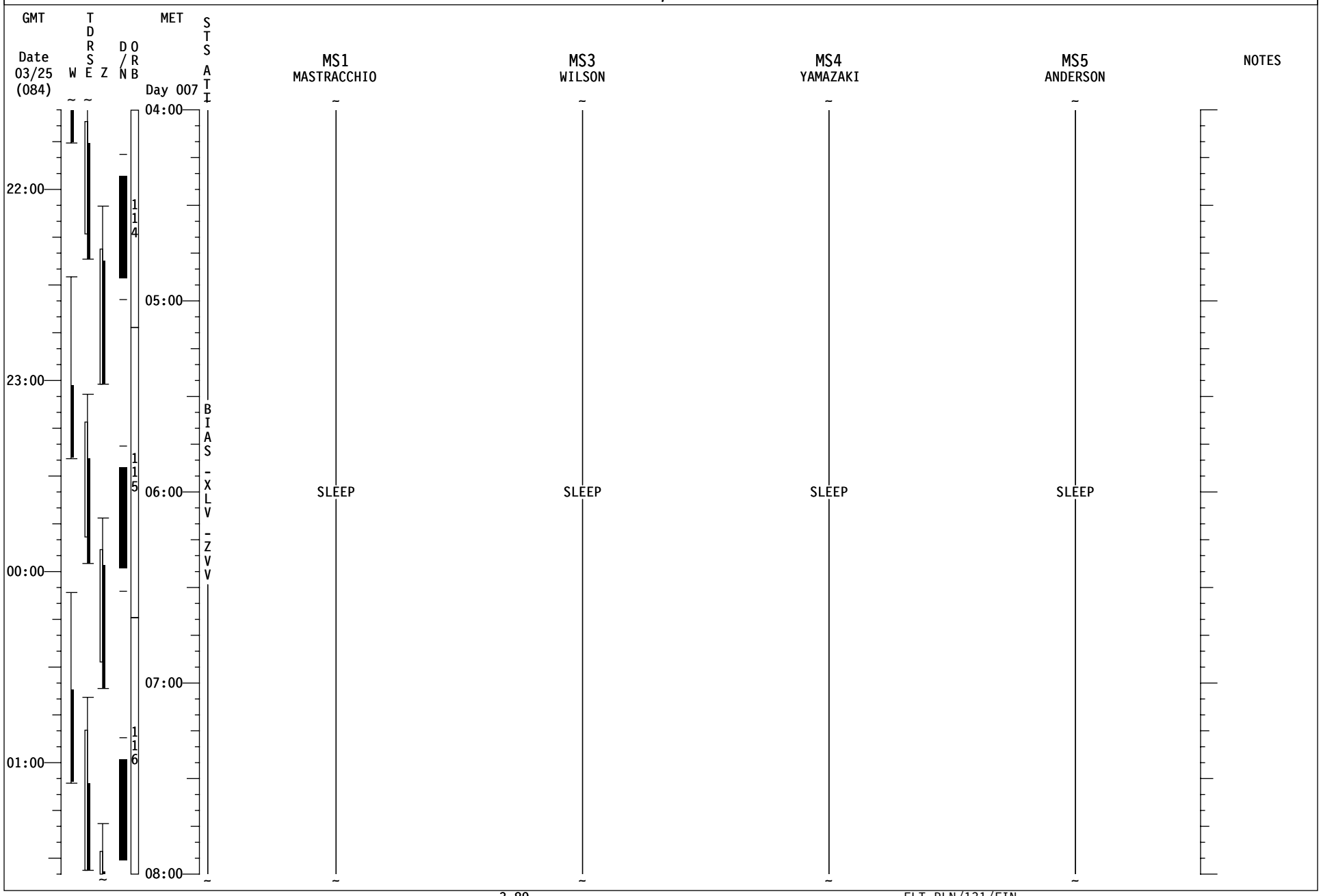
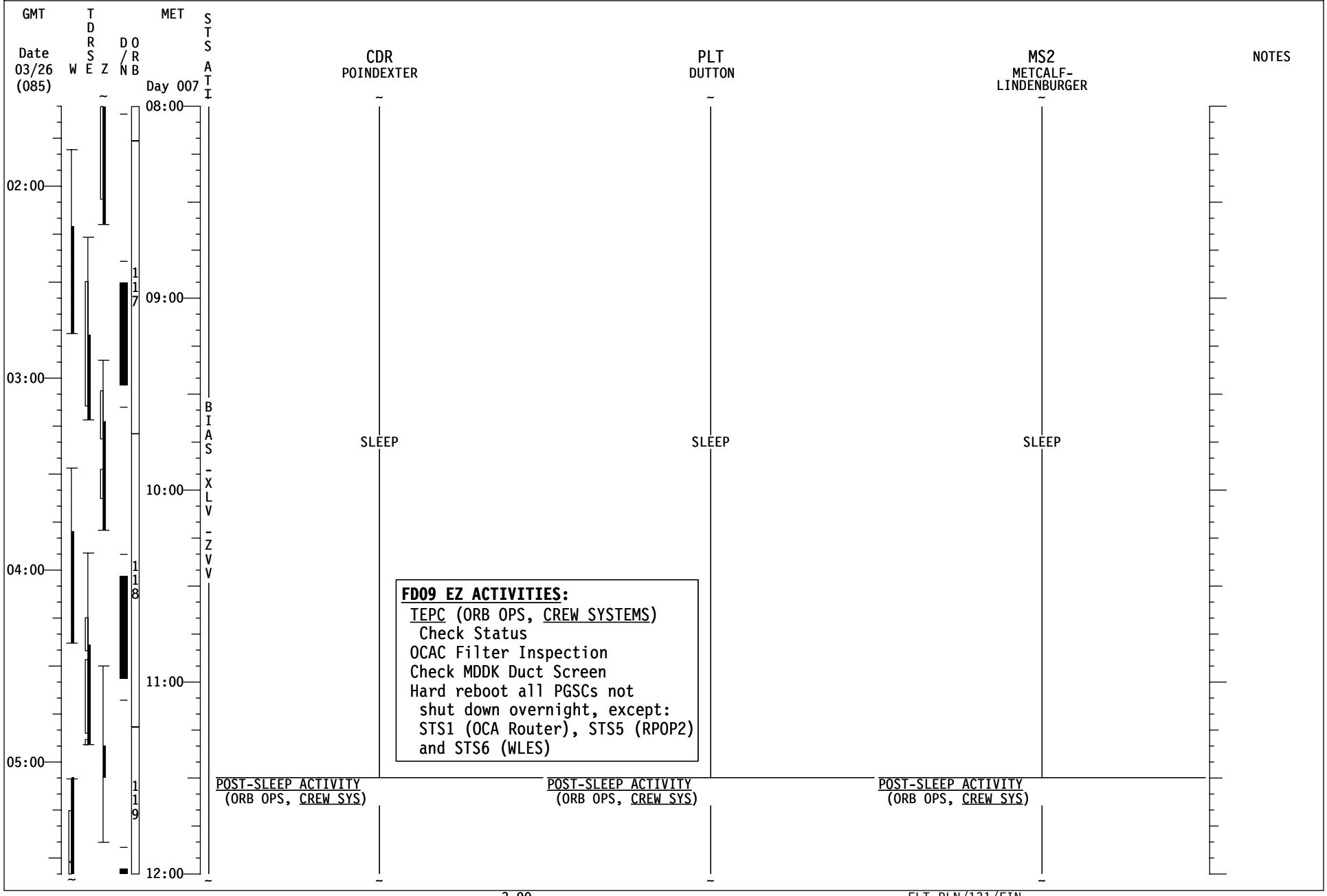


STS-131/19A FD09



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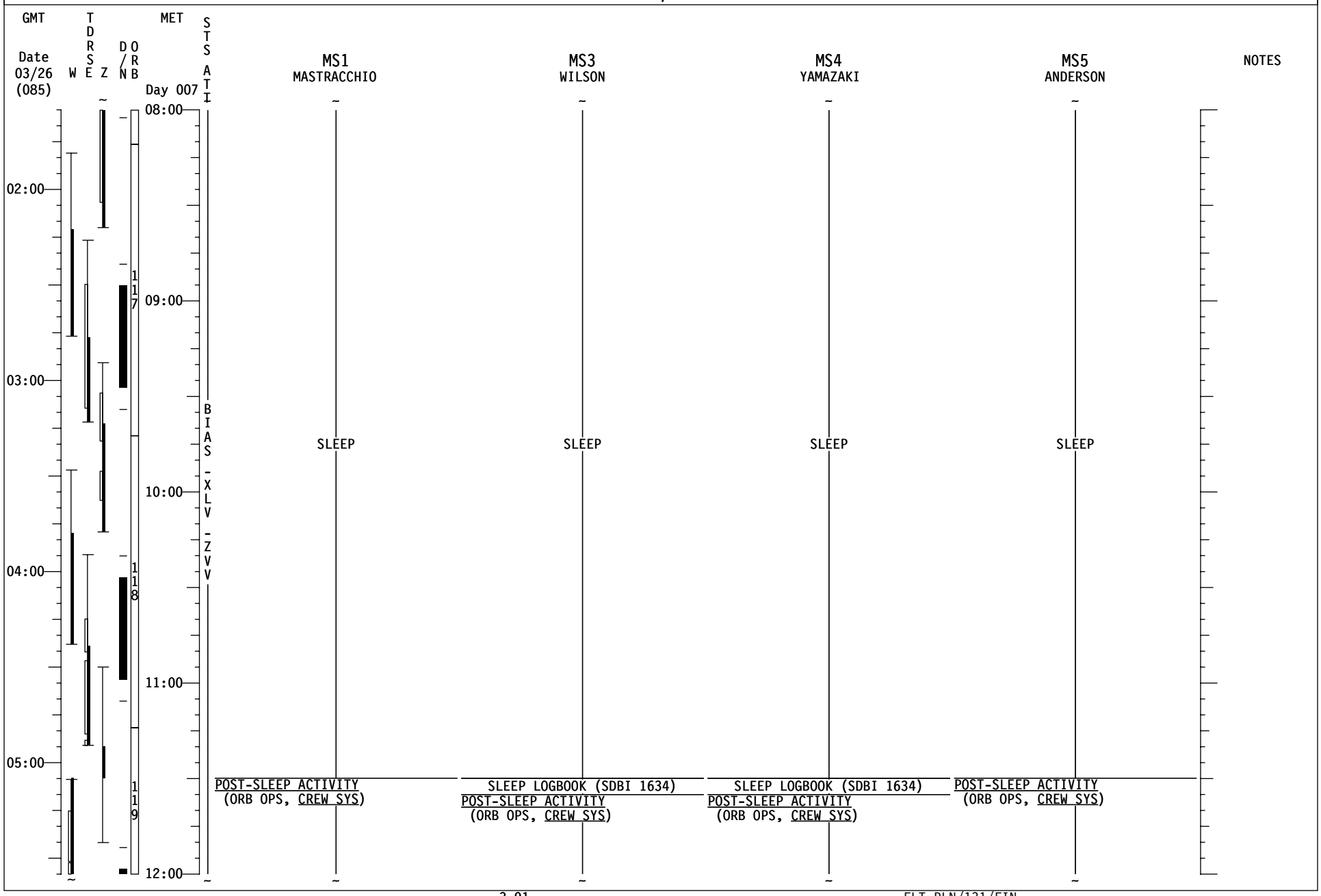


STS-131/19A FD09

GMT Date 03/26 (085) | W | TDRS E | TDRS Z | D/N | ORB | MET Day 007 | STS ATI

CDR POINDEXTER

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

L9 PAYLOAD STATION A/G (two) - OFF
PRIVATE MEDICAL CONFERENCE VIA A/G 2

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

13:00

14:00

ILLUMINATOR OPS (Cue Card, TV)
ILLUMINATOR OFF - ALL

EVA 3 INHIBIT PAD (EVA, TIMELINES)

15:00

TRANSFER OPS
Ref. MPLM Transfer List

16:00

PLT DUTTON

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

EVA SYSTEMS: 1.211 HYGIENE BREAK
Steps 21-end. MCC-H will perform step 23.

EVA SYSTEMS: 1.216 EVA PREP

EVA SYSTEMS: 1.220 EMU PURGE

EVA SYSTEMS: 1.225 EMU PREBREATHE

EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD
Perform CREWLOCK DEPRESS

MS2 METCALF-LINDENBURGER

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

L17 Check MCIU filter screen

TRANSFER OPS
Ref. MPLM Transfer List

IVA SUPPORT PREP

NOTES

06:00 07:00 08:00 09:00

ORB: 119 120 121

BIAS-XLV-ZVV

STS-131/19A FD09

GMT Date 03/26 (085) | W | TDRS E | Z | D/N | ORB | MET Day 007 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

12:00

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

EVA SYSTEMS: 1.211 HYGIENE BREAK
MCC-H will perform steps 1-4, 16-20, and 23.

06:00

119

13:00

EVA SYSTEMS: 1.216 EVA PREP

07:00

120

BIAS-XLV-ZVV

14:00

DAILY TRANSFER LIST UPDATE
Ref. Transfer List & MSG XXX

MERLIN STATUS CK (Cue Card)
GLACIER STATUS CK (Cue Card)
STL STATUS CK (Cue Card)

08:00

TRANSFER OPS
Ref. MPLM Transfer List

EVA SYSTEMS: 1.220 EMU PURGE

15:00

121

EVA SYSTEMS: 1.225 EMU PREBREATHE

POC: 2.7.501 DOUG STARTUP PROCEDURE
Step 1

09:00

ROBO: 1.320 EVA 3 ATA RETRIEVE

EXERCISE

EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD
Perform CREWLOCK DEPRESS

16:00

STS-131/19A FD09

GMT Date 03/26 (085) | W | TDRS E | Z | D/N | ORB | MET Day 007 | STS ATI

CDR POINDEXTER | **PLT** DUTTON | **MS2** METCALF-LINDENBURGER | NOTES

16:00
- TRANSFER OPS
- P/TV07 EVA (P/TV, SCENES) SETUP — Ref. MPLM Transfer List
- EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD — Perform CREWLOCK DEPRESS
- IVA SUPPORT PREP

10:00
- C-LK DPRS/RPRS CC (POST DEPRESS)
- P/TV07 EVA (P/TV, SCENES) OPS
- ROBO: 1.320 EVA 3 ATA RETRIEVE

17:00
- IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)

11:00
- NO UNISOLATED EXERCISE (WHILE CREW IN APFR)

18:00
- MEAL
- IVA SUPPORT FOR EVA 3

12:00
- SHUTTLE/ISS H2O CONTAINER FILL (HC) (ORB OPS, ECLS) Perform CWC FILL #9, Ref. MSG XXX
- ROBO: 1.330 EVA 3 LWAPA RETRIEVE/SPDM ASSEMBLY SUPPORT
- P/TV07 EVA (P/TV, SCENES) OPS

19:00

13:00
- [A] N2 REPRESS USING P/L N2 VLVS (ORB OPS, ECLS) Steps 1,3-7 MCC will TMBU S/W FDA
- N2 REPRESS INIT [A]
- SHUTTLE/ISS H2O CONTAINER FILL (HC) (ORB OPS, ECLS) Perform FILL TERMINATION

20:00

ORB: 122, 123, 124

STS ATI: BIAS-XLV-ZVV

STS-131/19A FD09

GMT Date 03/26 (085) | W | TDRS E | Z | D/N | ORB | MET Day 007 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

10:00
11:00
12:00
13:00

16:00
17:00
18:00
19:00
20:00

122
123
124

BIAS-XLV-ZVV

MS1 MASTRACCHIO

- EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD
  Perform CREWLOCK DEPRESS
- C-LK DPRS/RPRS CC (POST DEPRESS)
- EGRESS
- AGB STOW
- PLB SETUP
- INSTALL ATA ON LMC
- FGB RMV & PLB CLNUP
- LWAPA RETRIEVE
- CP13 ETVCG LIGHT

MS3 WILSON

- ROBO: 1.320 EVA 3 ATA RETRIEVE
- ROBO: 1.330 EVA 3 LWAPA RETRIEVE/SPDM ASSEMBLY SUPPORT

MS4 YAMAZAKI

- EXERCISE
- TRANSFER OPS
  Ref. MPLM Transfer List
- MEAL
- LIOH TRANSFER
  Ref. MSG XXX
  Ref. Transfer List

MS5 ANDERSON

- EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD
  Perform CREWLOCK DEPRESS
- C-LK DPRS/RPRS CC (POST DEPRESS)
- EGRESS
- AGB STOW
- PLB SETUP
- INSTALL ATA ON LMC
- SSRMS SETUP
- LWAPA RETRIEVE
- SPDM CLPA1 INSTALL

NOTES

- NO UNISOLATED EXERCISE (WHILE CREW IN APFR)

STS-131/19A FD09

GMT Date 03/26 (085) | W | TDRS E | Z | D/N | ORB | MET Day 007 | STS ATI

CDR POINDEXTER | PLT DUTTON | MS2 METCALF-LINDENBURGER | NOTES

20:00

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

ROBO: 1.330 EVA 3 LWAPA
RETRIEVE/SPDM ASSEMBLY SUPPORT

CWC TRANSFER
Transfer 2 CWCs to ISS

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

14:00

NO UNISOLATED EXERCISE (WHILE CREW IN APFR)

21:00

15:00

IVA SUPPORT FOR EVA 3

BIAS-XLV-ZVV

N2 REPRESS TERM (On MCC GO) [B]

22:00

[B] N2 REPRESS USING P/L N2 VLVS
(ORB OPS, ECLS)
on MCC go, perform steps 8-13
MCC will TMBU S/W FDA

EXERCISE

16:00

NO UNISOLATED EXERCISE (WHILE CREW ON ESP#2)

C-LK DPRS/RPRS CC (PRE REPRESS)

P/TV07 EVA (DEACTIVATION)
(P/TV, SCENES)

EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD
Perform CREWLOCK REPRESS

23:00

EVA SYSTEMS: 1.240 POST EVA
With EMU H2O Recharge, No METOX
Ref. CONSUMABLES TRACKING CUE CARD

17:00

TRANSFER OPS
Ref. MPLM Transfer List

TRANSFER OPS
Ref. MPLM Transfer List

00:00

124 | 125 | 126 | 127

STS-131/19A FD09

GMT Date 03/26 (085) | W | TDRS E | Z | D/N | ORB | MET Day 007 | STS ATI

14:00 15:00 16:00 17:00

124 125 126 127

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

BIAS -XLV -ZVV

MS1 MASTRACCHIO

CP13 ETVCG LIGHT

P1 RAD GF STOW BEAM INSTL

WIF EXTENDER RELOCATE

CLEANUP

INGRESS

C-LK DPRS/RPRS CC (PRE REPRESS)
EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD
Perform CREWLOCK REPRESS

EVA SYSTEMS: 1.240 POST EVA
With EMU H2O Recharge, No METOX
Ref. CONSUMABLES TRACKING CUE CARD

MS3 WILSON

ROBO: 1.330 EVA 3 LWAPA RETRIEVE/SPDM ASSEMBLY SUPPORT

TRANSFER OPS
Ref. MPLM Transfer List

MS4 YAMAZAKI

LIOH TRANSFER
Ref. MSG XXX
Ref. Transfer List

TRANSFER OPS
Ref. MPLM Transfer List

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS5 ANDERSON

SPDM CLPA1 INSTALL

SPDM EP1 COVER REMOVE

SSRMS CLEANUP

GET AHEADS

CLEANUP

INGRESS

C-LK DPRS/RPRS CC (PRE REPRESS)
EVA SYSTEMS: CREWLOCK DEPRESS/REPRESS CUE CARD
Perform CREWLOCK REPRESS

EVA SYSTEMS: 1.240 POST EVA
With EMU H2O Recharge, No METOX
Ref. CONSUMABLES TRACKING CUE CARD

NOTES

NO UNISOLATED EXERCISE (WHILE CREW IN APFR)

NO UNISOLATED EXERCISE (WHILE CREW ON ESP#2)

STS-131/19A FD09

GMT Date 03/26 (085) | W | TDRS E | Z | D/N | ORB | MET Day 008 | STS ATI

CDR POINDEXTER

TRANSFER OPS
Ref. MPLM Transfer List

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
Air Quality Report

L9 PAYLOAD STATION A/G (two) - OFF
PRIVATE MEDICAL CONFERENCE VIA A/G 2

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

PLT DUTTON

EVA SYSTEMS: 1.240 POST EVA
With EMU H2O Recharge, No METOX
Ref. CONSUMABLES
TRACKING CUE CARD

WCS COMPACTOR OPS (DUAL-VANE)
(Cue Card, URINE COLLECTION)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MYCO BODY SAMPLE COLLECTION
(ASSY OPS, PAYLOADS) Review Procedure

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

MS2 METCALF-LINDENBURGER

TRANSFER OPS
Ref. MPLM Transfer List

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

NOTES

STS-131/19A FD09

GMT Date 03/26 (085) | W | T D R S E | Z | D/N | O R B | MET Day 008 | STS ATI

MS1 MASTRACCHIO

- 00:00 EVA SYSTEMS: 1.240 POST EVA
  With EMU H2O Recharge, No METOX
  Ref. CONSUMABLES
  TRACKING CUE CARD
- PRE-SLEEP ACTIVITY
  (ORB OPS, CREW SYS)
- MYCO BODY SAMPLE COLLECTION
  (ASSY OPS, PAYLOADS) Review Procedure
- PRE-SLEEP ACTIVITY
  (ORB OPS, CREW SYS)
- SLEEP

MS3 WILSON

- TRANSFER OPS
  Ref. MPLM Transfer List
- AEM UNIT#1 CK (Cue Card)
- AEM UNIT#2 CK (Cue Card)
- MERLIN STATUS CK (Cue Card)
- GLACIER STATUS CK (Cue Card)
- STL STATUS CK (Cue Card)
- PRE-SLEEP ACTIVITY
  (ORB OPS, CREW SYS)
- SLEEP

MS4 YAMAZAKI

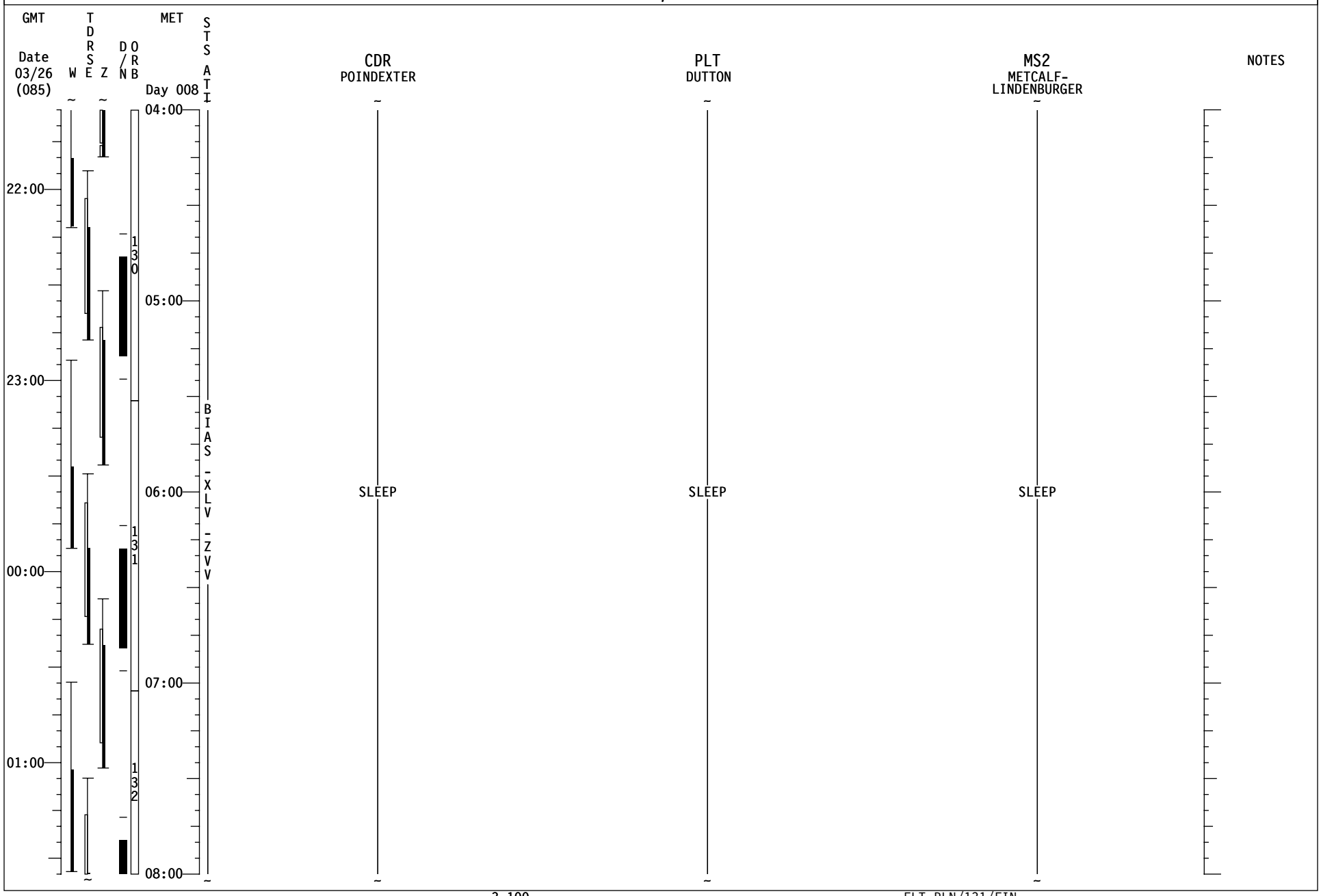
- PRE-SLEEP ACTIVITY
  (ORB OPS, CREW SYS)
- TRANSFER TAGUP
  Coordinate with transfer counterparts
- PRE-SLEEP ACTIVITY
  (ORB OPS, CREW SYS)
- TRANSFER BRIEF
  Call down status to MCC
- MYCO BODY SAMPLE COLLECTION
  (ASSY OPS, PAYLOADS) Review Procedure
- PRE-SLEEP ACTIVITY
  (ORB OPS, CREW SYS)
- SLEEP

MS5 ANDERSON

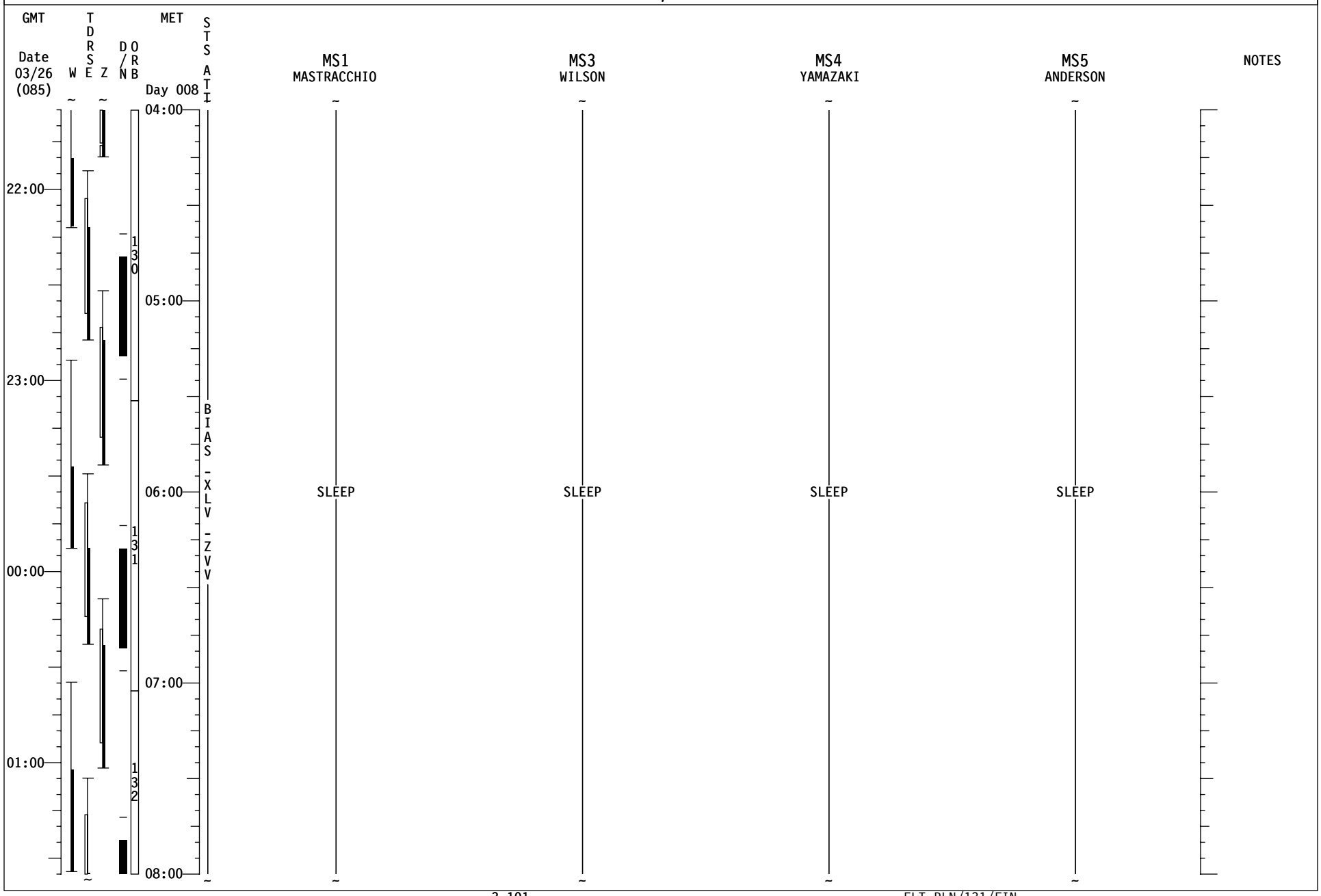
- EVA SYSTEMS: 1.240 POST EVA
  With EMU H2O Recharge, No METOX
  Ref. CONSUMABLES
  TRACKING CUE CARD
- PRE-SLEEP ACTIVITY
  (ORB OPS, CREW SYS)
- SLEEP

NOTES

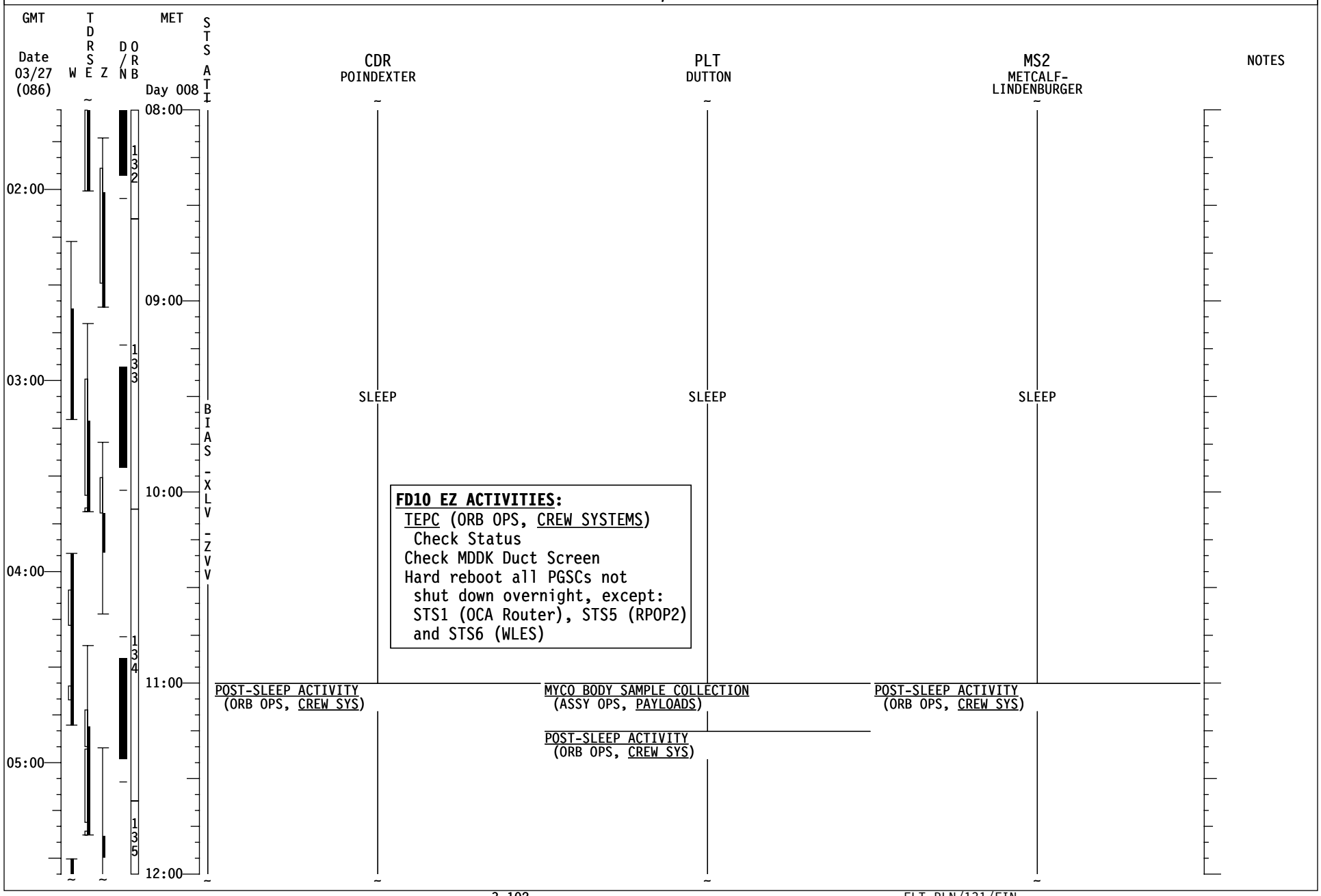
STS-131/19A FD09



STS-131/19A FD09



STS-131/19A FD10



STS-131/19A FD10

GMT Date 03/27 (086) | W | T D R S E | Z | D / N | O R B | MET Day 008 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

08:00 | 09:00 | 10:00 | 11:00 | 12:00

02:00 | 03:00 | 04:00 | 05:00

132 | 133 | 134 | 135

BIAS-XLV-ZVV

SLEEP

SLEEP

SLEEP

SLEEP

MYCO BODY SAMPLE COLLECTION
(ASSY OPS, PAYLOADS)

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

SLEEP LOGBOOK (SDBI 1634)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MYCO BODY SAMPLE COLLECTION
(ASSY OPS, PAYLOADS)

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

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

STS-131/19A FD10

GMT Date 03/27 (086) | W | TDRSE | Z | D/N | ORB | MET Day 008 | STS ATI

CDR POINDEXTER | PLT DUTTON | MS2 METCALF-LINDENBURGER | NOTES

12:00 — 13:00 — 14:00 — 15:00 — 16:00

06:00 — 07:00 — 08:00 — 09:00

135 — 136 — 137

BIAS-XLV-ZVV

CDR:
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- N2 REPRESS INIT [A]
- IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)
- PWR FILL #1 (ORB OPS, ECLS) Ref. MSG XXX
- PWR FILL #2 (ORB OPS, ECLS) Ref. MSG XXX
- PWR TRANSFER Transfer 2 PWRs to ISS

PLT:
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- [A] N2 REPRESS USING P/L N2 VLVS (ORB OPS, ECLS)Steps 1,3-7 MCC will TMBU S/W FDA
- TRANSFER OPS Ref. MPLM Transfer List
- FILTER CLEANING (IFM, SCHEDULED MAINTENANCE) Inspect filters and clean as necessary

MS2:
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- TRANSFER OPS Ref. MPLM Transfer List

STS-131/19A FD10

GMT Date 03/27 (086) | W | TDRS E | Z | D/N | ORB | MET Day 008 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

06:00 — 07:00 — 08:00 — 09:00

ORB: 135, 136, 137

12:00 — 13:00 — 14:00 — 15:00 — 16:00

STS ATI: BIAS-XLV-ZVV

MS1 MASTRACCHIO

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- TRANSFER OPS Ref. MPLM Transfer List
- EVA TASK: 2.140.140 PGT C/O Checkout PGT s/n 1004
- EVA TOOL RESTOW Ref. MSG XXX

MS3 WILSON

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- DAILY TRANSFER LIST UPDATE Ref. Transfer List & MSG XXX
- S&M: 1.260 RSP/RSR ROTATE UP Step 2.5 for all RSPs
- S&M: 1.260 CONFIGURE MPLM RACKS FOR ENTRY

MS4 YAMAZAKI

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- MERLIN STATUS CK (Cue Card)
- GLACIER STATUS CK (Cue Card)
- STL STATUS CK (Cue Card)
- TRANSFER OPS Ref. MPLM Transfer List
- S&M: 1.260 CONFIGURE MPLM RACKS FOR ENTRY

MS5 ANDERSON

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- S&M: 1.100 CBM CONTROLLER PANEL ASSEMBLY INSTALLATION - GENERIC

STS-131/19A FD10

GMT Date 03/27 (086) | W | TDRS E Z | D/N | ORB | MET Day 008 | STS ATI

CDR POINDEXTER | PLT DUTTON | MS2 METCALF-LINDENBURGER | NOTES

16:00

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

N2 REPRESS TERM (On MCC GO) [B]

10:00

CREW PHOTO | CREW PHOTO | CREW PHOTO

138

17:00

CREW CONFERENCE
ISS KU AVAIL (16:43-17:23)
(17:24-18:05)

CREW CONFERENCE
ISS KU AVAIL (16:43-17:23)
(17:24-18:05)

CREW CONFERENCE
ISS KU AVAIL (16:43-17:23)
(17:24-18:05)

11:00

BIAS-XLV-ZVV

[B] N2 REPRESS USING P/L N2 VLVS
(ORB OPS, ECLS)
on MCC go, perform steps 8-13
MCC will TMBU S/W FDA

18:00

MEAL | MEAL | MEAL

12:00

139

L9 PAYLOAD STATION A/G (two) - OFF

NETMEETING VIDEO CONFERENCING (ORB OPS, PGSC)
Private Family Conference
KU TDRZ (18:27-18:43) [C]

[C] Omit Steps 1.2 & 3
Use A/G 2 for Audio
Inform MCC of which PGSC will be used

19:00

OFF DUTY | OFF DUTY | OFF DUTY

13:00

140

EXERCISE

20:00

STS-131/19A FD10

GMT Date 03/27 (086) | W | TDRS E | Z | D/N | ORB | MET Day 008 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

ORB: 138, 139, 140

STS ATI: BIAS-XLV-ZVV

16:00

EVA TOOL RESTOW
Ref. MSG XXX

S&M: 1.260 CONFIGURE MPLM RACKS FOR ENTRY

S&M: 1.260 CONFIGURE MPLM RACKS FOR ENTRY

S&M: 1.100 CBM CONTROLLER PANEL ASSEMBLY INSTALLATION - GENERIC

10:00

CREW PHOTO | CREW PHOTO | CREW PHOTO | CREW PHOTO

17:00

CREW CONFERENCE
ISS KU AVAIL (16:43-17:23)
(17:24-18:05)

CREW CONFERENCE
ISS KU AVAIL (16:43-17:23)
(17:24-18:05)

CREW CONFERENCE
ISS KU AVAIL (16:43-17:23)
(17:24-18:05)

CREW CONFERENCE
ISS KU AVAIL (16:43-17:23)
(17:24-18:05)

11:00

18:00

MEAL | MEAL | MEAL | MEAL

12:00

C Omit Steps 1.2 & 3
Use A/G 2 for Audio
Inform MCC of which PGSC will be used

OFF DUTY

19:00

L9 PAYLOAD STATION A/G (two) - OFF
NETMEETING VIDEO CONFERENCING
(ORB OPS, PGSC)
Private Family Conference
KU TDRW (18:55-19:19) C
Alpha Stop at 19:05

OFF DUTY | OFF DUTY | OFF DUTY

13:00

OFF DUTY

L9 PAYLOAD STATION (two) - A/G
NETMEETING VIDEO CONFERENCING (ORB OPS, PGSC)
Private Family Conference
KU TDRZ (19:50-20:18) C

20:00

STS-131/19A FD10

GMT Date 03/27 (086) | W | TDRS E | TDRS Z | D/N | ORB | MET Day 008 | STS ATI

CDR POINDEXTER | PLT DUTTON | MS2 METCALF-LINDENBURGER | NOTES

20:00

EXERCISE | OFF DUTY | OFF DUTY

14:00

140

L9 PAYLOAD STATION A/G (two) - OFF
NETMEETING VIDEO CONFERENCING (ORB OPS, PGSC)
Private Family Conference
KU TDRW (20:28-20:57) C

21:00

C Omit Steps 1.2 & 3
Use A/G 2 for Audio
Inform MCC of which PGSC will be used

EXERCISE

15:00

141

OFF DUTY

OFF DUTY

BIAS-XLV-ZVV

22:00

OFF DUTY

L9 PAYLOAD STATION A/G (two) - OFF
NETMEETING VIDEO CONFERENCING (ORB OPS,PGSC)
Private Family Conference
KU TDRW (22:04-22:29) C

16:00

OFF DUTY

142

23:00

EXERCISE

17:00

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PUBLIC AFFAIRS EVENT
ISS KU AVAIL (23:20-00:00)

PUBLIC AFFAIRS EVENT
ISS KU AVAIL (23:20-00:00)

TRANSFER TAGUP
Coordinate with transfer counterparts

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
Air Quality Report

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

00:00

STS-131/19A FD10

GMT Date 03/27 (086) | W | TDRS E | TDRS Z | D/N | ORB | MET Day 008 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

20:00

L9 PAYLOAD STATION (two) - A/G
NETMEETING VIDEO CONFERENCING (ORB OPS, PGSC)
Private Family Conference
KU TDRZ (19:50-20:18) C

14:00

140

EXERCISE

OFF DUTY

OFF DUTY

21:00

OFF DUTY

OFF DUTY

15:00

141

L9 PAYLOAD STATION A/G (two) - OFF
NETMEETING VIDEO CONFERENCING (ORB OPS, PGSC)
Private Family Conference
KU TDRZ (21:30-21:54) C

EXERCISE

C Omit Steps 1.2 & 3
Use A/G 2 for Audio
Inform MCC of which PGSC will be used

22:00

EXERCISE

16:00

EXERCISE

OFF DUTY

OFF DUTY

23:00

142

OFF DUTY

OFF DUTY

L9 PAYLOAD STATION (two) - OFF
NETMEETING VIDEO CONFERENCING (ORB OPS, PGSC)
Private Family Conference
KU TDRZ (23:12-23:37) C

17:00

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PUBLIC AFFAIRS EVENT
ISS KU AVAIL (23:20-00:00)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

TRANSFER TAGUP
Coordinate with transfer counterparts

PUBLIC AFFAIRS EVENT
ISS KU AVAIL (23:20-00:00)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

00:00

BIAS-XLV-ZVV

STS-131/19A FD10

GMT Date 03/27 (086) | W | T D R S E | Z | D / N | O R B | MET Day 009 | STS ATI

CDR POINDEXTER | PLT DUTTON | MS2 METCALF-LINDENBURGER | NOTES

18:00 19:00 20:00 21:00

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

143 144 145

BIAS-XLV-ZVV

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

L9 PAYLOAD STATION A/G (two) - OFF
PRIVATE MEDICAL CONFERENCE VIA A/G 2

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

SLEEP

STS-131/19A FD10

GMT Date 03/27 (086) | W | T D R S E | Z | D / N | O R B | MET Day 009 | STS ATI

18:00
19:00
20:00
21:00

143
144
145

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

BIAS-XLV-ZVV

MS1 MASTRACCHIO

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

MS3 WILSON

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

AEM UNIT#1 CK (Cue Card)
AEM UNIT#2 CK (Cue Card)

MERLIN STATUS CK (Cue Card)
GLACIER STATUS CK (Cue Card)
STL STATUS CK (Cue Card)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

MS4 YAMAZAKI

TRANSFER BRIEF
Call down status to MCC

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

MS5 ANDERSON

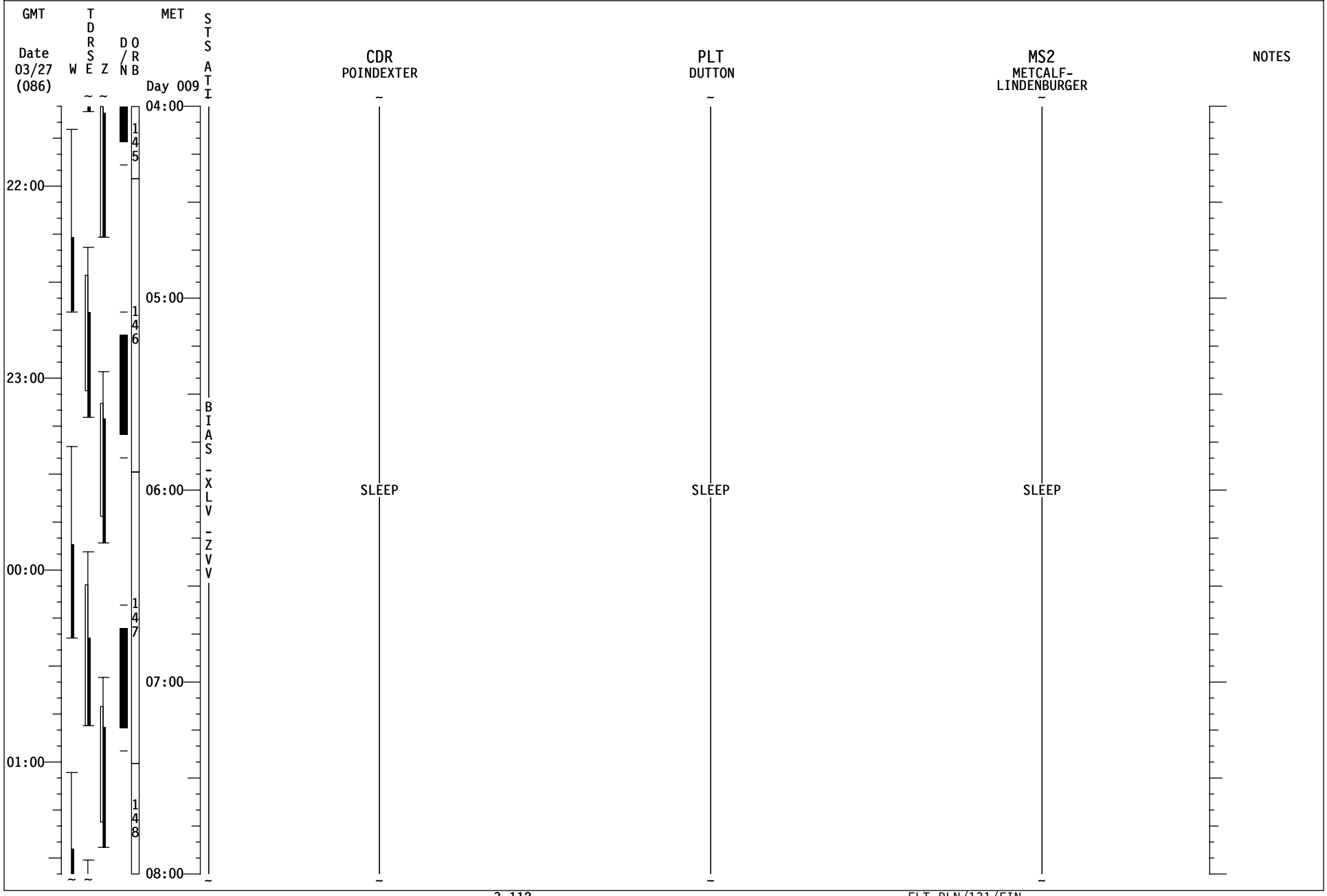
SHUTTLE CONDENSATE COLLECTION
(ORB OPS, ECLS)
Perform CHANGEOUT, Ref. MSG XXX

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

NOTES

STS-131/19A FD10



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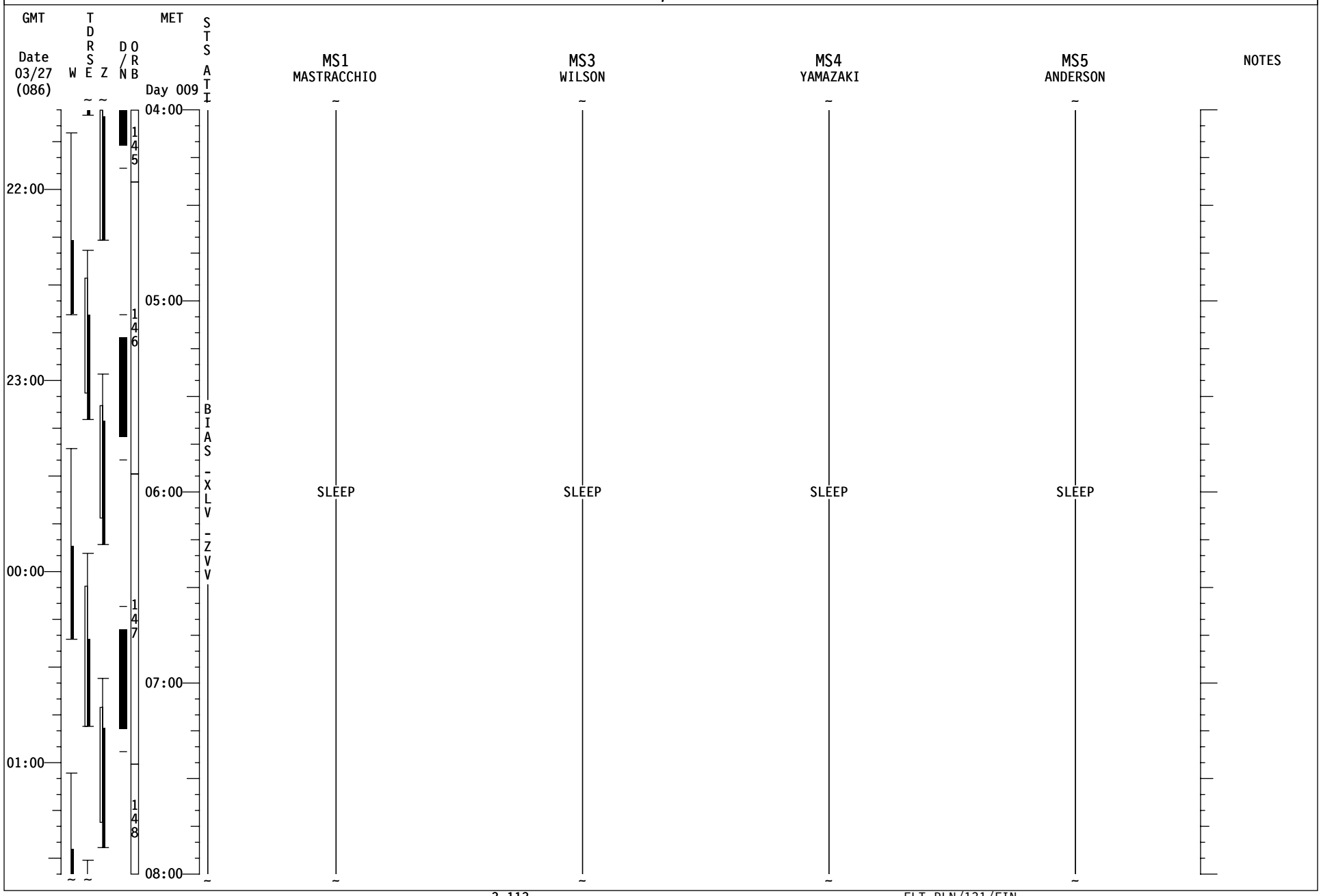


STS-131/19A FD11

GMT Date 03/28 (087) | W | T D R S E | Z | D/N | O R B | MET Day 009 | STS ATI

CDR POINDEXTER | PLT DUTTON | MS2 METCALF-LINDENBURGER | NOTES

08:00 | 09:00 | 10:00 | 11:00 | 12:00

02:00 | 03:00 | 04:00 | 05:00

148 | 149 | 150

BIAS-XLV-ZVV

SLEEP (CDR) | SLEEP (PLT) | SLEEP (MS2)

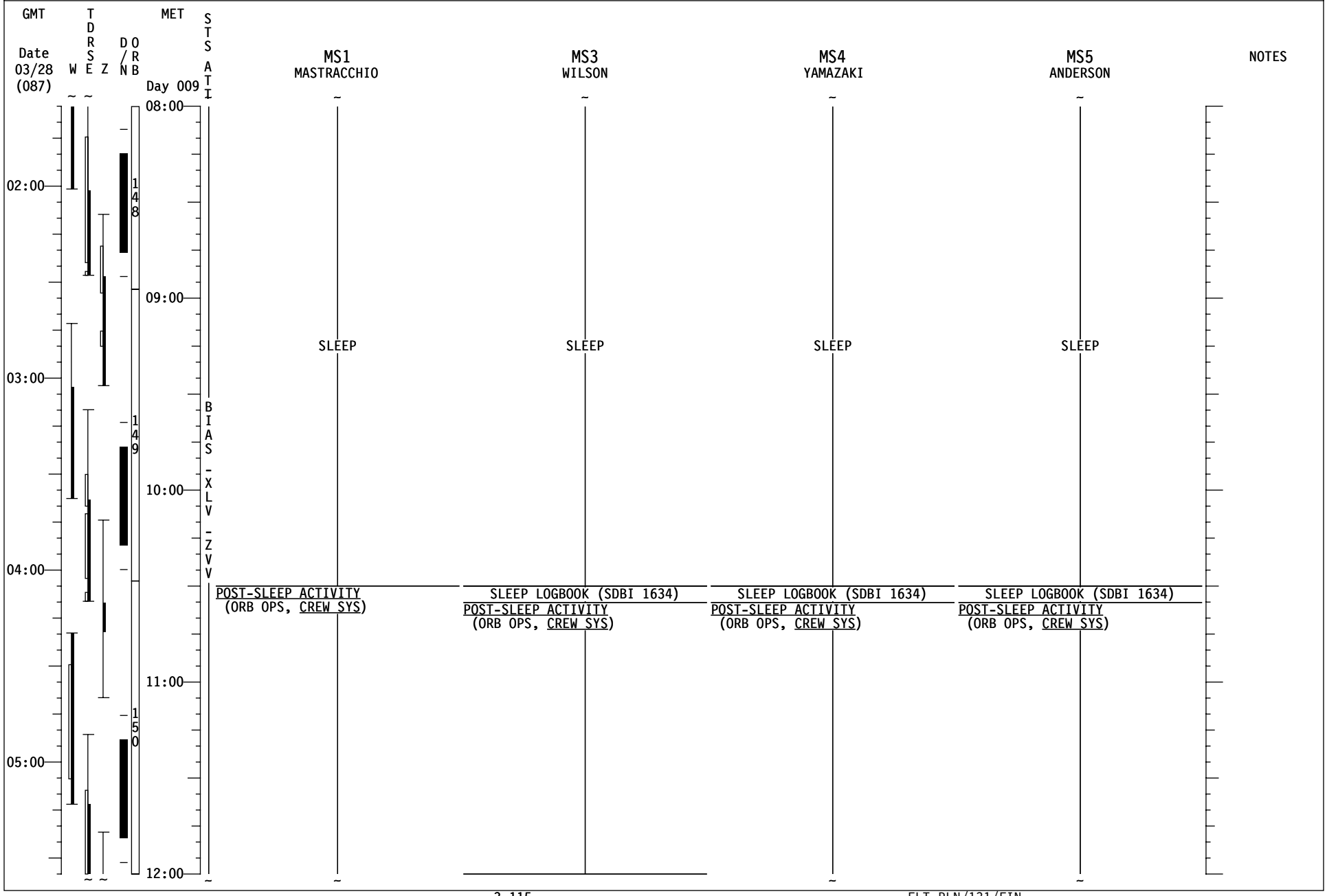
FD11 EZ ACTIVITIES:
TEPC (ORB OPS, CREW SYSTEMS)
Check Status
OCAC Filter Inspection
Check MDDK Duct Screen
Hard reboot all PGSCs not shut down overnight, except: STS1 (OCA Router), STS5 (RPOP2) and STS6 (WLES)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
√HUM SEP for H2O accumulation

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

STS-131/19A FD11



STS-131/19A FD11

GMT Date 03/28 (087) | W | TDRS E | Z | D/N | ORB | MET Day 009 | STS ATI

CDR POINDEXTER | **PLT** DUTTON | **MS2** METCALF-LINDENBURGER | NOTES

12:00

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
√HUM SEP for H2O accumulation

06:00

DAILY TRANSFER LIST UPDATE
Ref. Transfer List & MSG XXX

151

13:00

07:00

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

L17 Check MCIU filter screen

POST EVA EMU RECONFIG (EVA, AIRLOCK CONFIG)

BIAS-XLV-ZVV

TRANSFER OPS
Ref. Transfer List

14:00

TRANSFER OPS
Ref. Transfer List

152

08:00

15:00

P/TV10 EPO - ROBOTICS (P/TV, SCENES)
Review OPS

IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)

P/TV10 EPO - ROBOTICS (P/TV, SCENES)
SETUP

09:00

N2 REPRESS INIT [A]

153

P/TV10 EPO - ROBOTICS (P/TV, SCENES)
OPS, SRMS

[A] N2 REPRESS USING P/L N2 VLVS
(ORB OPS, ECLS)Steps 1,3-7
MCC will TMBU S/W FDA

EXERCISE

16:00

STS-131/19A FD11

GMT Date 03/28 (087) | W | TDRS E | Z | D/N | ORB | MET Day 009 | STS ATI

12:00 – 16:00

BIAS-XLV-ZVV

151 | 152 | 153

MS1 MASTRACCHIO	MS3 WILSON	MS4 YAMAZAKI	MS5 ANDERSON	NOTES
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
	MERLIN STATUS CK (Cue Card)			
	GLACIER STATUS CK (Cue Card)			
	STL STATUS CK (Cue Card)			
	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
	SAMPLE TRANSFER REVIEW Ref. MSG XXX			
	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
			MPLM: 1.105 MPLM EGRESS B	
	MERLIN 19A PACK FOR RETURN (ASSY OPS, PAYLOADS)		MPLM: 1.106 MPLM DEACTIVATION Steps 1-2,4-6	
POST EVA EMU RECONFIG (EVA, AIRLOCK CONFIG)		P/TV09 MIDDECK PAYLOADS (P/TV, SCENES) SETUP		
			S&M: 1.109 MPLM VESTIBULE CONFIGURE FOR DEMATE	
		P/TV09 MIDDECK PAYLOADS (P/TV, SCENES) OPS, Item 2, MERLIN Video		
			B Steps 1-6 (Ground can perform steps 4-5 on request). Remove PFE and PBA from MPLM and stow in the following locations: PFE: NOD1P2-12 PEPS Locker and PBA: NOD2P2 PEPS Locker.	
	EXERCISE			
		EXERCISE		
	MERLIN STATUS CK (Cue Card)			
			MPLM: 1.110 NODE 2 TO MPLM VESTIBULE DEPRESS AND LEAK CHECK Ground will perform steps 5.1 and 10.2	
	TRANSFER OPS Ref. Transfer List	P/TV10 EPO - ROBOTICS (P/TV, SCENES) OPS, SRMS		

STS-131/19A FD11

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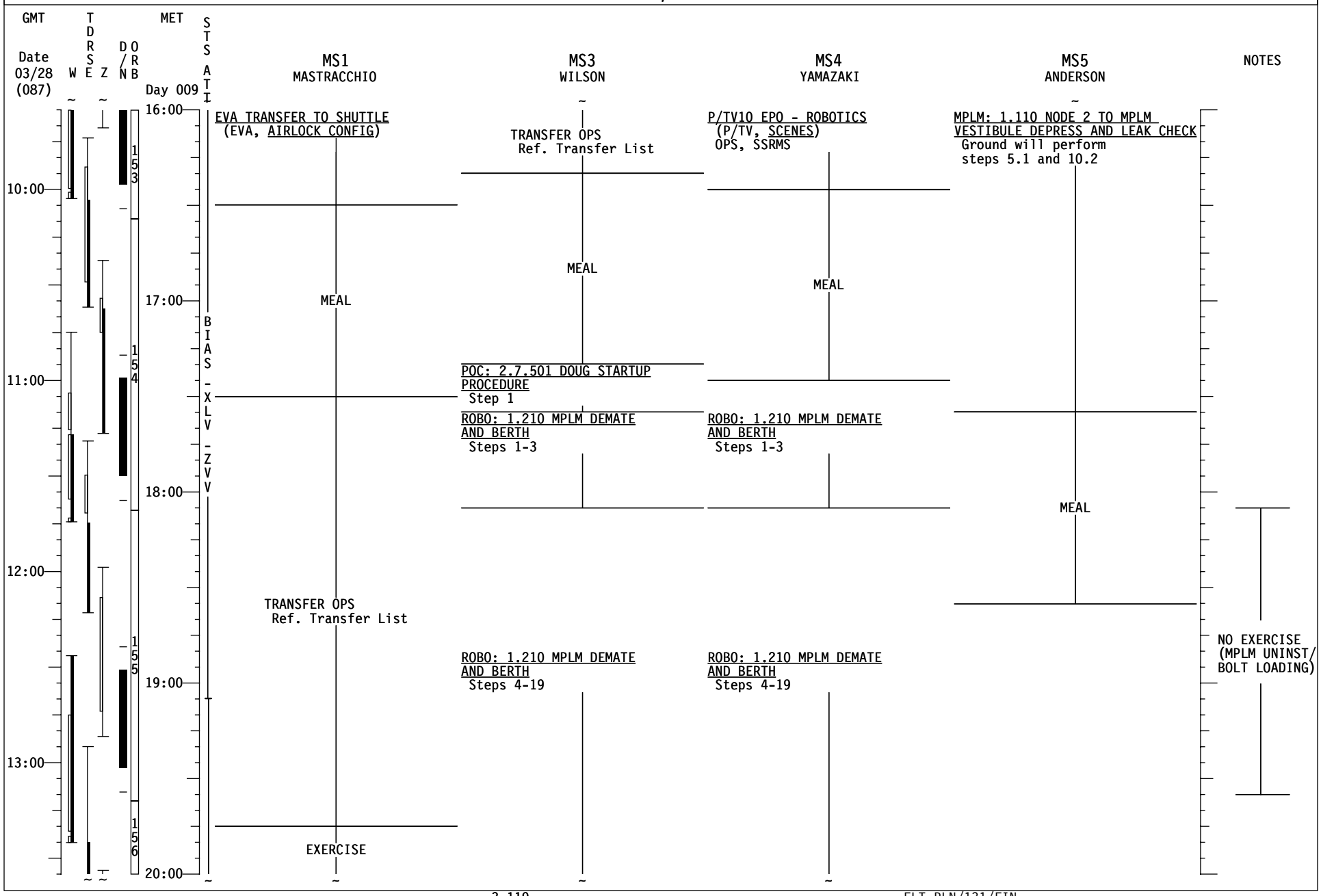
ORB: 153, 154, 155, 156

STS ATI: BIAS-XLV-ZVV

MET	CDR POINDEXTER	PLT DUTTON	MS2 METCALF-LINDENBURGER	NOTES
16:00	EXERCISE	EVA TRANSFER TO SHUTTLE (EVA, AIRLOCK CONFIG)	P/TV10 EPO - ROBOTICS (P/TV, SCENES) OPS, SSRMS	
10:00			P/TV10 EPO - ROBOTICS (P/TV, SCENES) DEACTIVATION	
17:00	MEAL	MEAL	MEAL	
		C N2 REPRESS USING P/L N2 VLVS (ORB OPS, ECLS) on MCC go, perform steps 8-13 MCC will TMBU S/W FDA		
11:00	MERLIN STATUS CK (Cue Card)			
	N2 REPRESS TERM (On MCC GO) C		PGSC TRANSFER Ref. MSG XXX	
		TRANSFER OPS Ref. Transfer List		
18:00				
		P/TV06 ROBOTICS (P/TV, SCENES) SETUP		
12:00		P/TV06 ROBOTICS OPERATIONS (P/TV, SCENES) SETUP & OPS Items 1 & 3 for MPLM Berth in PLB		
	TRANSFER OPS Ref. Transfer List			NO EXERCISE (MPLM UNINST/ BOLT LOADING)
19:00			TRANSFER OPS Ref. Transfer List	
13:00				
20:00				

STS-131/19A FD11



STS-131/19A FD11

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CDR POINDEXTER | **PLT** DUTTON | **MS2** METCALF-LINDENBURGER | NOTES

20:00

14:00

15:00

16:00

17:00

23:00

00:00

156

157

158

BIAS-XLV-ZVV

TRANSFER OPS
Ref. Transfer List

R1 PL PRI MN C - ON (tb-ON)
SSP1 MPLM CHAN 1,2 HTR PWR (two) - ON (tb-gray)
On MCC GO: A15 APCU 1 OUTPUT - ON

On MCC GO: A15 APCU 1 OUTPUT - OFF

FAREWELL

C/L CAMR INSTALL
(P/TV, C/L CAMR)
Perform Step 1 only

On MCC GO: MO10W 14.7 CAB REG INLET SYS 1 vlv - OP
NOMINAL H2O CNFG (ORB OPS, ECLS) √MCC for FES Pri A
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
Air Quality Report

P/TV06 ROBOTICS OPERATIONS
(P/TV, SCENES)
SETUP & OPS
Items 1 & 3 for MPLM Berth in PLB

OBSS MNVR TO UNDOCK POSITION
(PDRS, OBSS NOMINAL)

P/TV08 EXTERNAL SURVEY
(P/TV, SCENES)
SETUP, Step 2

P/TV08 EXTERNAL SURVEY
(P/TV, SCENES)
OPS, Item 2 for ISS Survey

P/TV08 EXTERNAL SURVEY (DEACTIVATION)
(P/TV, SCENES)

FAREWELL

EXERCISE

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

TRANSFER OPS
Ref. Transfer List

ROBO: 1.21O MPLM DEMATE AND BERTH
Steps 12-19

OBSS MNVR TO UNDOCK POSITION
(PDRS, OBSS NOMINAL)

EXERCISE

FAREWELL

JOINT OPS: 4.102 SHUTTLE/ISS
DUCT REMOVAL & HATCH CLOSING
MCC-H can perform steps 2 & 3 on
crew request

JOINT OPS: 4.104 ODS VEST/PMA
DPRS & HATCH LEAK CHECK

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

TFL 199

MPLM
PRESS
CHECK

TFL 192

TFL 184

STS-131/19A FD11

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MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

20:00

ROBO: 1.210 MPLM DEMATE AND BERTH
Steps 4-19

ROBO: 1.210 MPLM DEMATE AND BERTH
Steps 4-19

14:00

EXERCISE

ROBO: 1.210 MPLM DEMATE AND BERTH
Steps 20-23

ROBO: 1.210 MPLM DEMATE AND BERTH
Steps 20-23

156

EXERCISE

21:00

JOINT OPS: 3.122 PREBREATHE USING SHUTTLE O2 TEARDOWN
Steps 2-7; MCC-H will perform steps 2.4 and 5.5

TRANSFER BRIEF
Call down status to MCC

TRANSFER BRIEF
Call down status to MCC

15:00

P/TV05 ISS INTERNAL OPS
(P/TV, SCENES)
Perform DEACTIVATION

P/TV04 INGRESS/EGRESS
(P/TV, SCENES)
SETUP

157

SHUTTLE CONDENSATE COLLECTION
(ORB OPS, ECLS)
Perform CHANGEOUT, Ref. MSG XXX

22:00

BIAS-XLV-ZVV

FAREWELL | FAREWELL | FAREWELL | FAREWELL

16:00

JOINT OPS: 4.102 SHUTTLE/ISS DUCT REMOVAL & HATCH CLOSING
MCC-H can perform steps 2 & 3 on crew request

RNDZ TOOLS CHECKOUT
(RNDZ, RNDZ TOOLS)

P/TV04 INGRESS/EGRESS
(P/TV, SCENES)
OPS
Ingress, Item 1

RNDZ TOOLS CHECKOUT
(RNDZ, RNDZ TOOLS)

JOINT OPS: 4.104 ODS VEST/PMA DPRS & HATCH LEAK CHECK

P/TV04 INGRESS/EGRESS (DEACTIVATION)
(P/TV, SCENES)

23:00

C/L CAMR INSTALL
(P/TV, C/L CAMR)
Perform Step 1 only

158

BRIC-16 ACTUATION
(ASSY OPS, PAYLOADS)

AEM UNIT#1 CK (Cue Card)
AEM UNIT#2 CK (Cue Card)

17:00

MERLIN STATUS CK (Cue Card)
GLACIER STATUS CK (Cue Card)
STL STATUS CK (Cue Card)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

00:00

STS-131/19A FD11

GMT Date 03/28 (087) | W | T D R S E | Z | D / N | O R B | MET Day 010 | STS ATI

CDR POINDEXTER | PLT DUTTON | MS2 METCALF-LINDENBURGER | NOTES

18:00 | 19:00 | 20:00 | 21:00

159 | 160 | 161

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

BIAS-XLV-ZVV

CDR

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
Air Quality Report

L9 PAYLOAD STATION A/G (two) - OFF
PRIVATE MEDICAL CONFERENCE VIA A/G 2

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

PLT

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

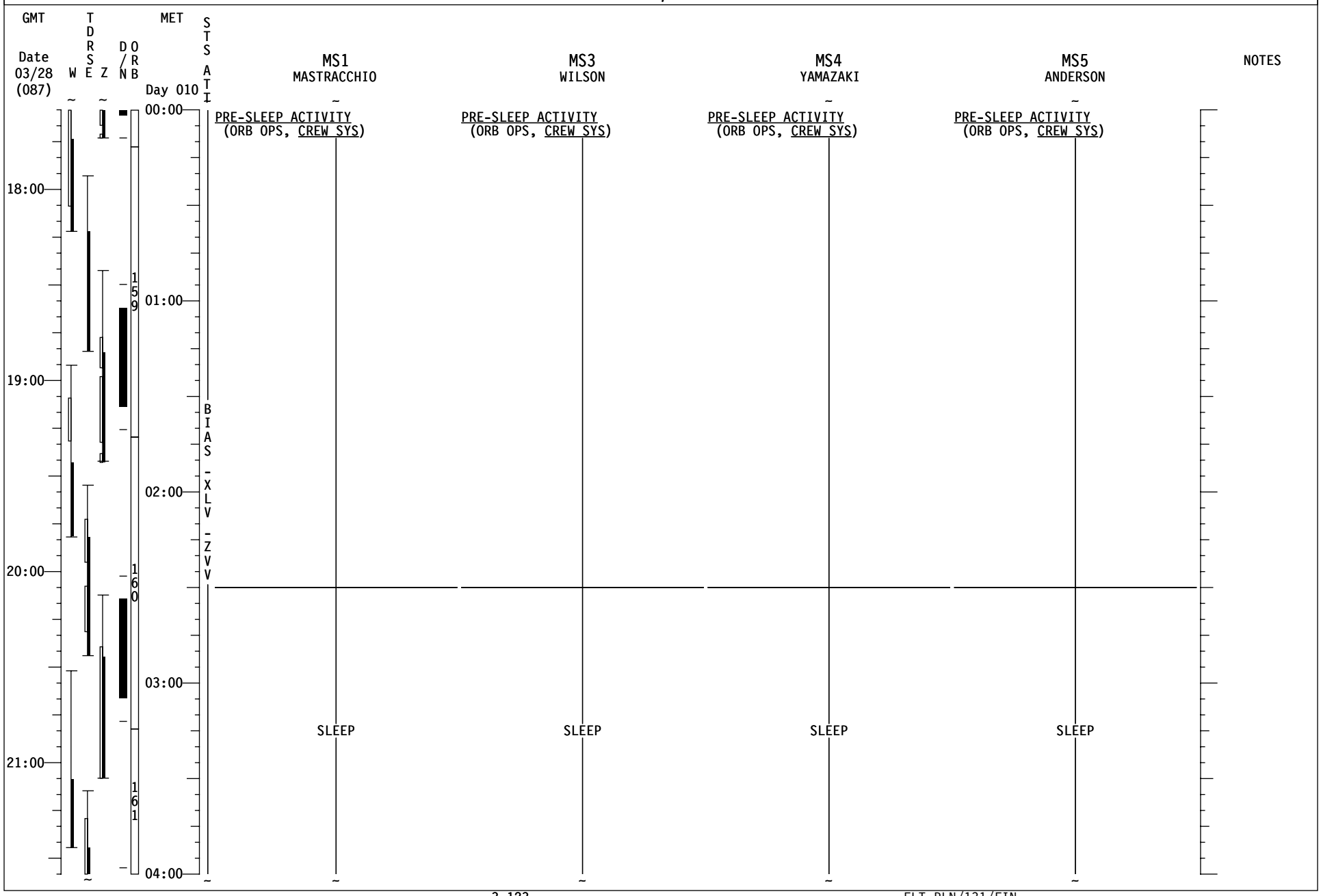
SLEEP

MS2

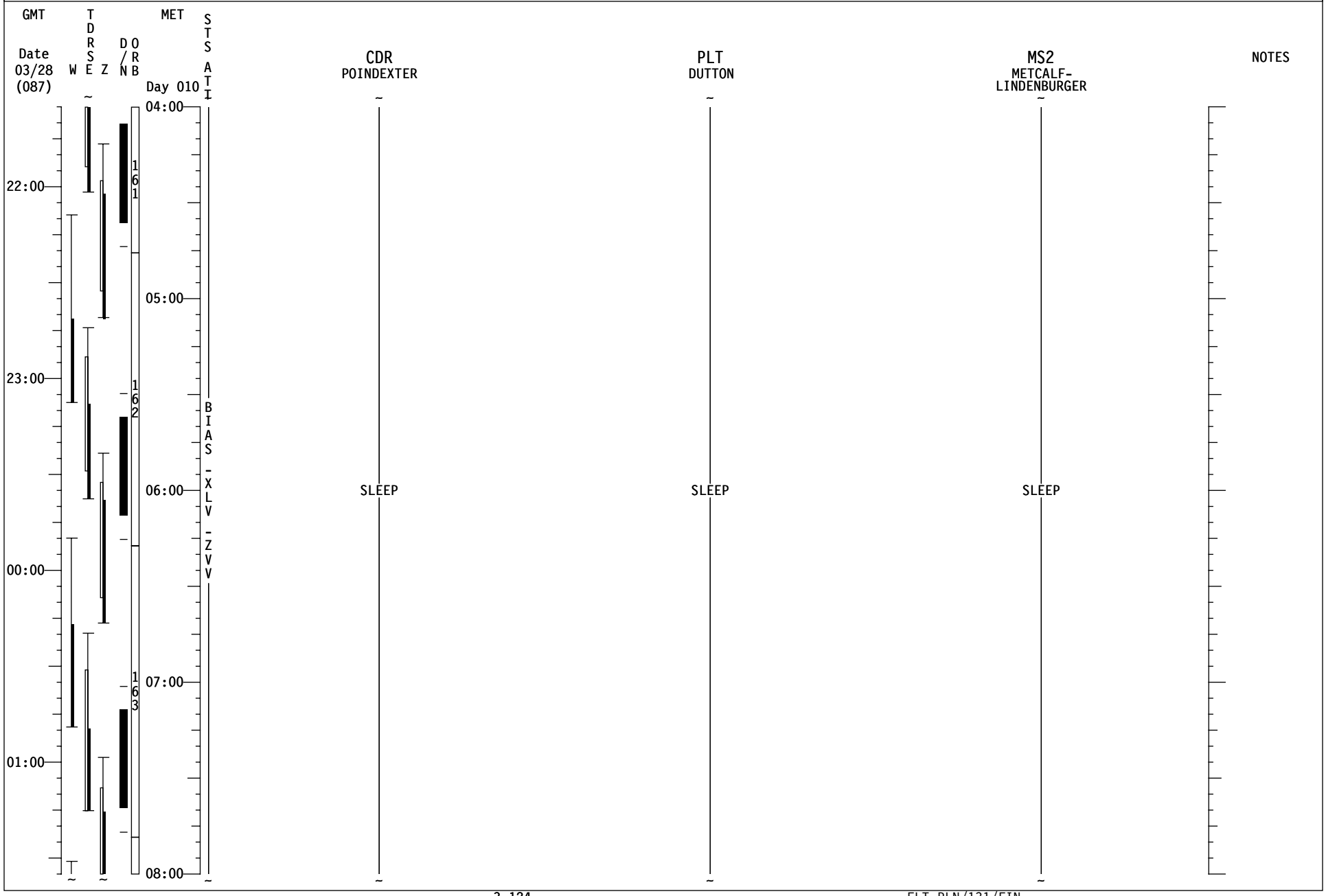
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

STS-131/19A FD11



STS-131/19A FD11



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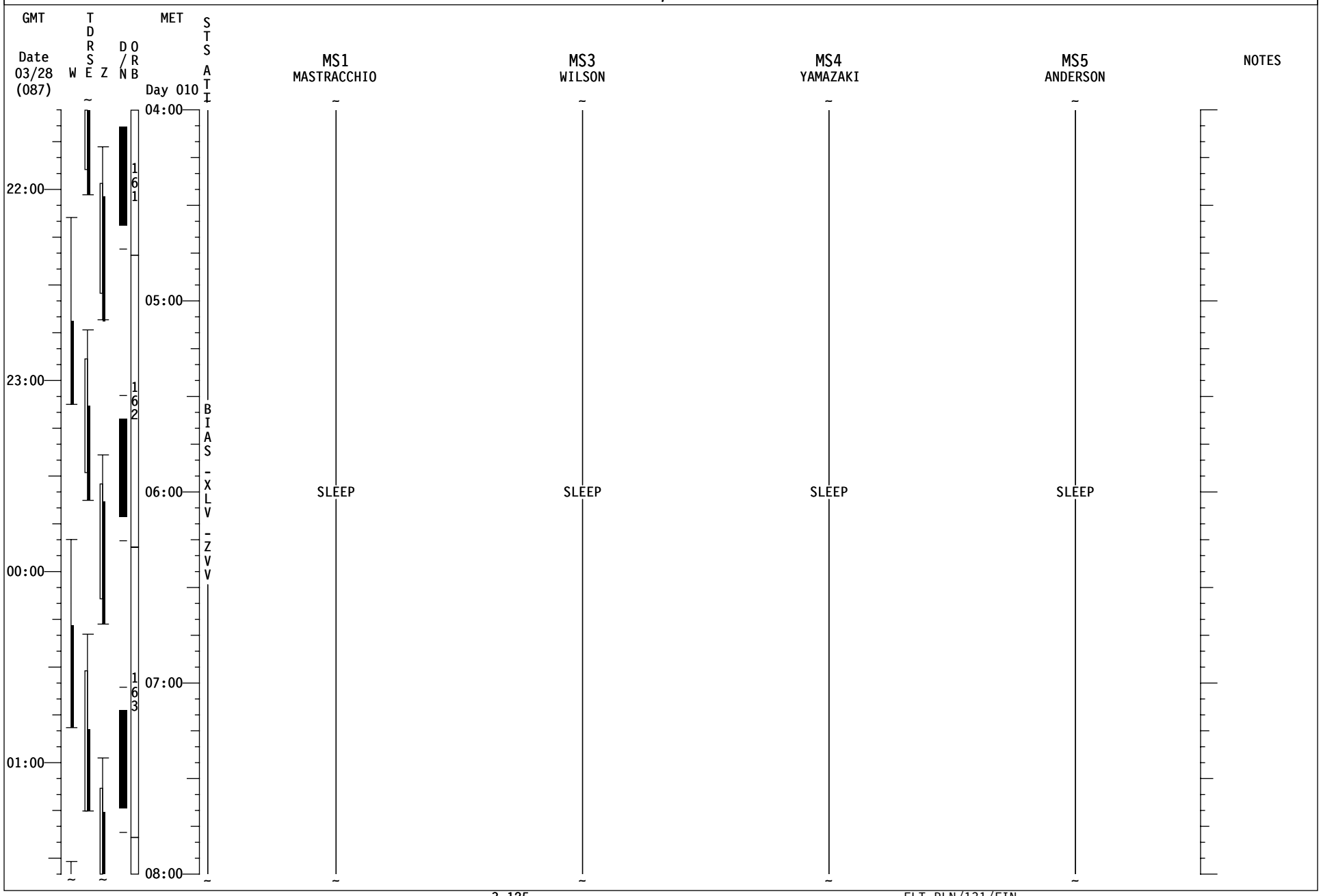

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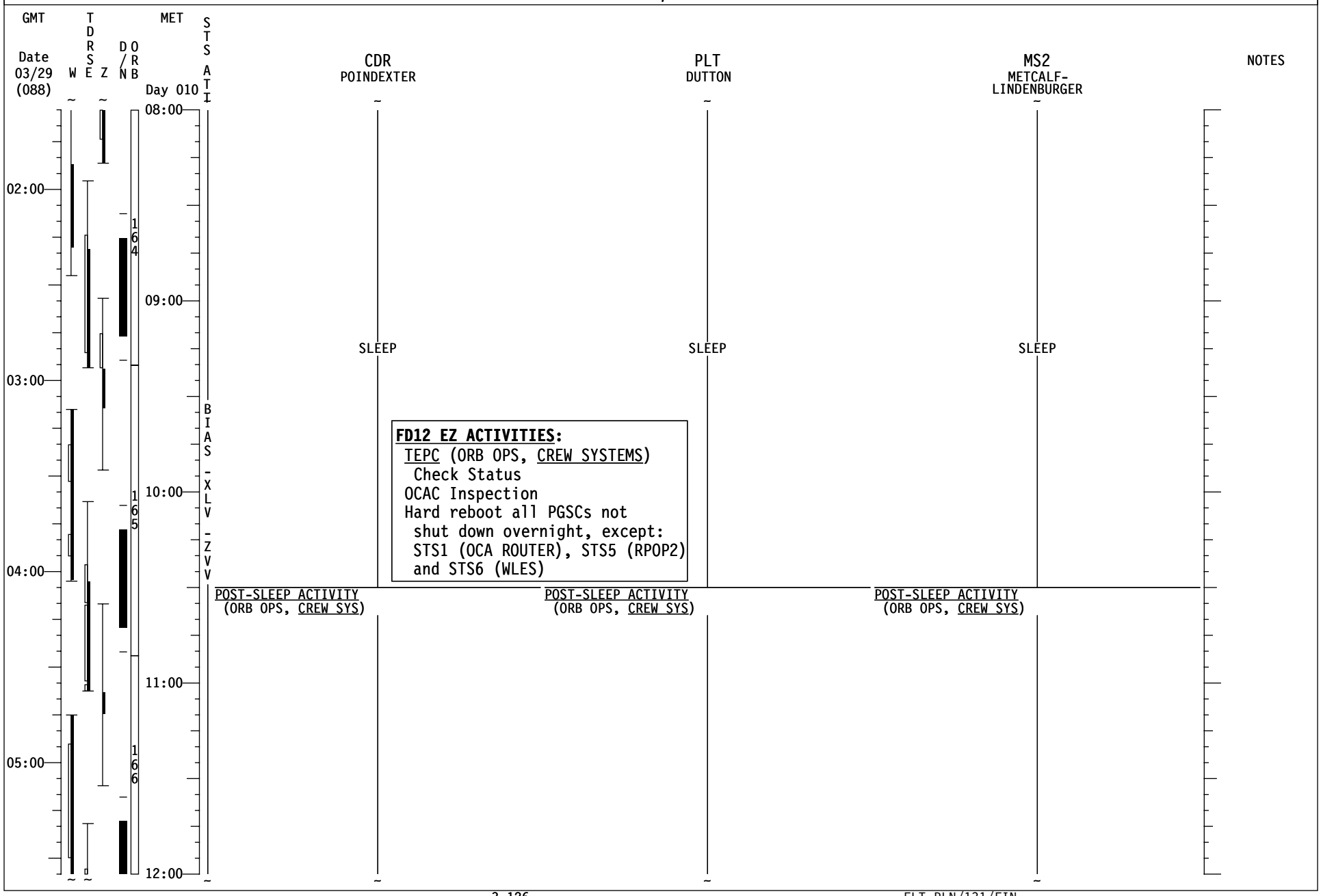

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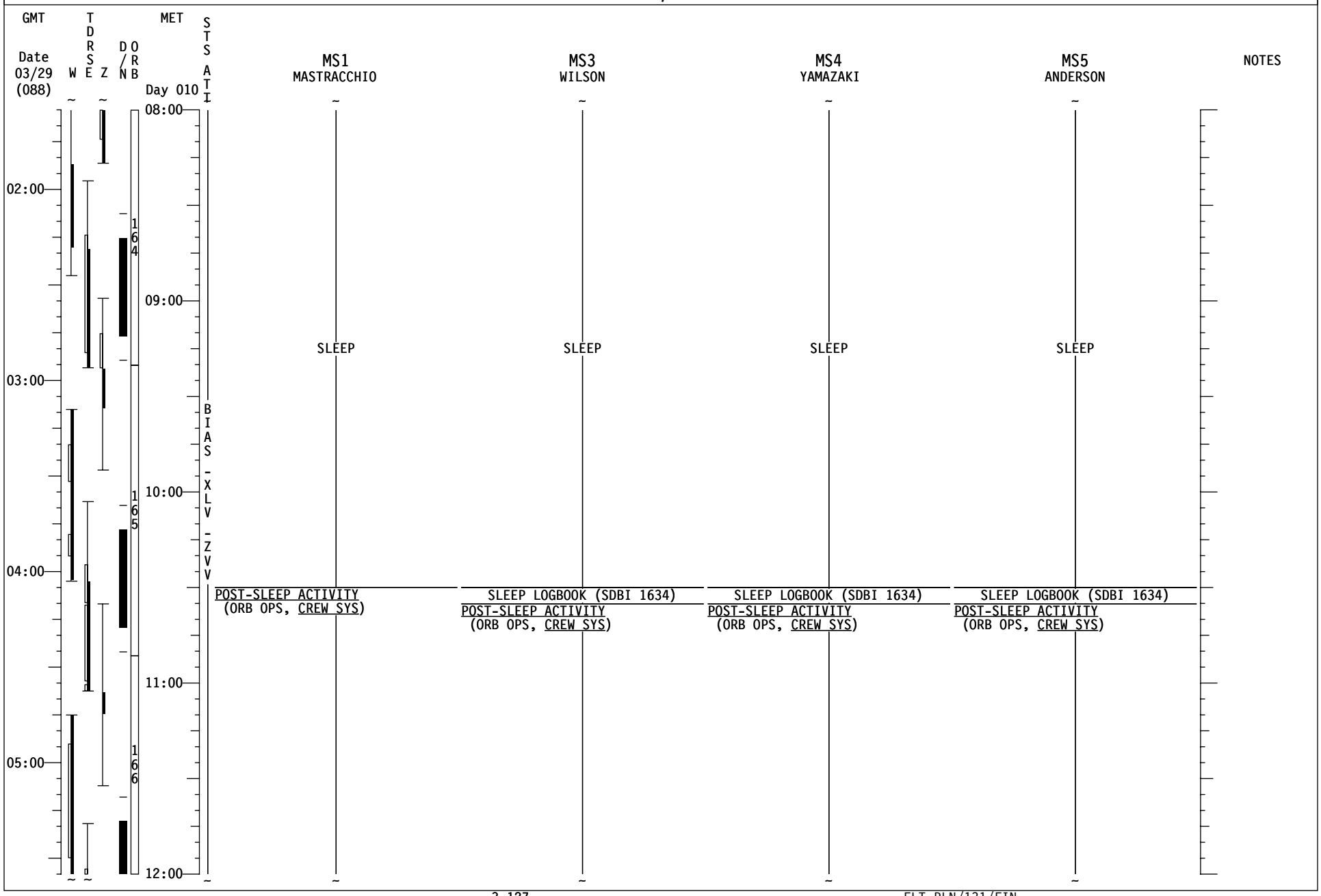


STS-131/19A FD12

GMT Date 03/29 (088) | W | TDRSE Z | D/N | ORB | MET Day 010 | STS ATI

CDR POINDEXTER | **PLT** DUTTON | **MS2** METCALF-LINDENBURGER | NOTES

12:00

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

06:00

BIAS -XLV -ZVV

13:00

A √A12/FREE/VERN
When ISS in Free Drift, DAP: LVLH,
When jet activity stopped for > 5 sec,
DAP: FREE > 2 sec, Then DAP: AUTO

07:00

O6 S TRK PWR -Z - ON
PRIORITY PWRUP GRP B (ORB PKT, PRIOR PWRDN)
Steps 12 (IMU 3),6 (Triple G2)
Remain in FREE Drift

H/O ATT CNTRL CMG TA TO ORB A

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MNVR (TRK) -XLV +ZVV (Undock)
TG=2 BV=5 P=180 Y=0 OM=0
A12/AUTO/VERN, Init TRK

SSPTS OPCU DEACT B

B A15 OPCU 1,2 CONV (two) - OFF
R1 MN BUS TIE B - OFF (tb-OFF)
C - OFF (tb-OFF)

14:00

TFL 192

On MCC GO:
TRIDAR ACTIVATION (Cue Card)

UNDOCKING/SEPARATION TIMELINE (RNDZ, UNDOCKING/SEP TIMELINE)

08:00

UPLINK
β21 + Mask
Box 30,40

UNDK/FLYAROUND/SEP

15:00

UNDOCKING 15:00

SEP/FLYAROUND
FLYAROUND
SEP BURNS
TERMINATE SEP OPS
(RNDZ, UNDOCKING/SEP TIMELINE)

09:00

16:00

STS-131/19A FD12

GMT Date 03/29 (088) | W | TDRS E | Z | D/N | ORB | MET Day 010 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

12:00 — 06:00 — 13:00 — 07:00 — 14:00 — 08:00 — 15:00 — 09:00 — 16:00

ORB: 166, 167, 168, 169

STS ATI: BIAS-XLV-ZVV; UNDK/FLYAROUND/SEP

MS1 MASTRACCHIO

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

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

P/TV03 UNDOCK
(P/TV, SCENES)
OPS

MS3 WILSON

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MERLIN STATUS CK (Cue Card)
GLACIER STATUS CK (Cue Card)
STL STATUS CK (Cue Card)

UNDOCKING/SEPARATION TIMELINE
(RNDZ, UNDOCKING/SEP TIMELINE)

UNDOCKING 15:00

SEP/FLYAROUND
FLYAROUND
SEP BURNS
TERMINATE SEP OPS
(RNDZ, UNDOCKING/SEP TIMELINE)

MS4 YAMAZAKI

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SSV OUTRATE - 3

UNDOCKING/SEPARATION TIMELINE
(RNDZ, UNDOCKING/SEP TIMELINE)

SEP/FLYAROUND
FLYAROUND
SEP BURNS
TERMINATE SEP OPS
(RNDZ, UNDOCKING/SEP TIMELINE)

MS5 ANDERSON

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

UNDOCKING/SEPARATION TIMELINE
(RNDZ, UNDOCKING/SEP TIMELINE)

SEP/FLYAROUND
FLYAROUND
SEP BURNS
TERMINATE SEP OPS
(RNDZ, UNDOCKING/SEP TIMELINE)

STS-131/19A FD12

GMT Date 03/29 (088) | W | T D R S E Z | D/N | O R B | MET Day 010 | STS ATI

CDR POINDEXTER | **PLT** DUTTON | **MS2** METCALF-LINDENBURGER | NOTES

16:00

SEP/FLYAROUND
FLYAROUND
SEP BURNS
TERMINATE SEP OPS
(RNDZ, UNDOCKING/SEP TIMELINE)
SEP 1 TIG (10/16:15:00)

10:00

< SEP 2 TIG (10/16:43:00)

MNVR (TRK) -ZLV +YVV (Dump)
TG=2 BV=3 OM=270
A1/AUTO/VERN, Init TRK

17:00

MEAL

11:00

12:00

COMM STRING 1 C/O (PART A COMMAND TO STRING 1)
(ORB OPS, COMM/INSI)

PRIORITY PWRDN GRP B
(ORB PKT, PRIOR PWRDN)
Steps 5,6 (Single G2), 12 (IMU 3)

MNVR (TRK) BIAS +YSI (Stbd Survey)
TG=4 BV=5 P=0 Y=40 OM=345
A14/AUTO/VERN, Init TRK

CABIN TEMP CONTROLLER RECNFG 2(1)
(ORB OPS, ECLS)

JOINT OPS: 6.106 SSOR DEACTIVATION

13:00

18:00

19:00

IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)
HEATER RECONFIG-CONFIG B (ORB OPS, EPS)
PCS 1(2) CONFIG (ORB OPS, ECLS) SYS 2

20:00

-ZLV +YVV

BIAS +YSI

169 170 171

SEP/FLYAROUND
FLYAROUND
SEP BURNS
TERMINATE SEP OPS
(RNDZ, UNDOCKING/SEP TIMELINE)

SUPPLY/WASTE WATER DUMP (Simo Init)
(ORB OPS, ECLS)
Ref. MSG XXX

MEAL

SUPPLY/WASTE WATER DUMP (Simo Term)
(ORB OPS, ECLS)
Ref. MSG XXX

OBSS MNVR TO FLAT FIELD
(PDRS, OBSS NOMINAL)

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

SEP/FLYAROUND
FLYAROUND
SEP BURNS
TERMINATE SEP OPS
(RNDZ, UNDOCKING/SEP TIMELINE)

MEAL

TRIDAR DEACTIVATION
(Cue Card)

L17 Check MCIU filter screen

OBSS MNVR TO FLAT FIELD
(PDRS, OBSS NOMINAL)

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

UPLINK
β21 + Mask

TFL 188

STS-131/19A FD12

GMT Date 03/29 (088) | W | TDRS E | TDRS Z | D/N | ORB | MET Day 010 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

16:00

P/TVO3 UNDOCK
(P/TV, SCENES)
OPS

SEP/FLYAROUND
FLYAROUND
SEP BURNS
TERMINATE SEP OPS
(RNDZ, UNDOCKING/SEP TIMELINE)

SEP/FLYAROUND
FLYAROUND
SEP BURNS
TERMINATE SEP OPS
(RNDZ, UNDOCKING/SEP TIMELINE)

SEP/FLYAROUND
FLYAROUND
SEP BURNS
TERMINATE SEP OPS
(RNDZ, UNDOCKING/SEP TIMELINE)

10:00

169

P/TVO3 UNDOCK
(P/TV, SCENES)
DEACTIVATION

17:00

MEAL

MEAL

MEAL

11:00

-ZLV +YVV

170

MEAL

SHUTTLE CONDENSATE COLLECTION
(ORB OPS, ECLS)
Perform TEARDOWN

18:00

PRIORITY PWRDN GRP B
(ORB PKT, PRIOR PWRDN)
Steps 5,6 (Single G2), 12 (IMU 3)

SSV OUTRATE - 4
DIGITAL VIA VTR
(Cue Card, DIGITAL PLAYBACK)
Undock Ops
KU TDRE (18:09-19:04)
Alpha Stop at 18:29

12:00

EVA UNPACK AND STOW
(EVA, AIRLOCK CONFIG)

EVA UNPACK AND STOW
(EVA, AIRLOCK CONFIG)

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

19:00

BIAS +YSI

171

13:00

EXERCISE

20:00

EXERCISE

STS-131/19A FD12

GMT Date 03/29 (088) | W | TDRS E | Z | D/N | ORB | MET Day 010 | STS ATI

CDR POINDEXTER

PLT DUTTON

MS2 METCALF-LINDENBURGER

NOTES

14:00
15:00
16:00
17:00

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

ORB 172
ORB 173
ORB 174

STS ATI: BIAS +XSI; BIAS -YSI; -ZLV -XVV

CDR

MNVR (TRK) BIAS +XSI (Nose Cap)
TG=4 BV=5 P=330 Y=0 OM=300
A14/AUTO/VERN,
RCC SURVEY-STBD cmplt, Init TRK

MNVR (TRK) BIAS -YSI (Port Survey)
TG=4 BV=5 P=0 Y=323 OM=0
A14/AUTO/VERN,
RCC SURVEY-PORT Step 3 cmplt, Init TRK

OBSS LDRI RCC SURVEY-PORT
(PDRS, OBSS OPS)

MNVR (TRK) -ZLV -XVV
TG=2 BV=3 OM=0
A14/AUTO/VERN,
RCC Survey-Port Step 11 cmplt, Init TRK

EXERCISE

PLT

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

OBSS LDRI/IDC RCC SURVEY - PORT
(PDRS, OBSS OPERATIONS)

OBSS BERTH
(PDRS, OBSS OPERATIONS)

MS2

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

OBSS LDRI/IDC RCC SURVEY -
NOSE CAP
(PDRS, OBSS OPERATIONS)

EXERCISE

OBSS BERTH
(PDRS, OBSS OPERATIONS)

NOTES

TFL 199

STS-131/19A FD12

GMT Date 03/29 (088) | W | TDRSE | Z | D/N | ORB | MET Day 010 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

14:00
15:00
16:00
17:00

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

BIAS +XSI
BIAS -YSI
-ZLV -XVV

172
173
174

MS1 MASTRACCHIO

EXERCISE

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS3 WILSON

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

OBSS LDRI/IDC RCC SURVEY - NOSE CAP
(PDRS, OBSS OPERATIONS)

EXERCISE

AEM UNIT#1 CK (Cue Card)
AEM UNIT#2 CK (Cue Card)
MERLIN STATUS CK (Cue Card)
GLACIER STATUS CK (Cue Card)
STL STATUS CK (Cue Card)
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

MS4 YAMAZAKI

EXERCISE

OBSS LDRI/IDC RCC SURVEY - NOSE CAP
(PDRS, OBSS OPERATIONS)

OBSS LDRI/IDC RCC SURVEY - PORT
(PDRS, OBSS OPERATIONS)

DIGITAL VIA VTR
(Cue Card, DIGITAL PLAYBACK)
LDRI Surveys
KU TDRE (23:09-00:04)
Alpha Stop at 23:36

MS5 ANDERSON

EXERCISE

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

STS-131/19A FD12

GMT Date 03/29 (088) | W | TDRS E | Z | D/N | ORB | MET Day 011 | STS ATI

CDR POINDEXTER | **PLT** DUTTON | **MS2** METCALF-LINDENBURGER | NOTES

00:00 — 18:00 — 19:00 — 20:00 — 21:00 — 01:00 — 02:00 — 03:00 — 04:00

ORB: 174 — 175 — 176 — 177

STS ATI: -ZLV -XVV

CDR

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
Air Quality Report

06 √UHF MODE - OFF
L9 PAYLOAD STATION A/G (two) - OFF
PRIVATE MEDICAL CONFERENCE VIA A/G 2

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

PLT

RMS PWRDN
(PDRS, RMS PWRDN)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

MS2

RMS PWRDN
(PDRS, RMS PWRDN)

RECNFG OCA DOWNLINK RATE (PL MAX) [C]

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

[C] After LDRI Playback Complete:
RECONFIGURE OCA DOWNLINK RATE (PL MAX)
(ORB OPS, PGSC) Part C (Omit Step 4)

NOTES

MPLM PRESSURE CHECK

TFL 188

STS-131/19A FD12

GMT Date 03/29 (088) | W | TDRS E | Z | D/N | ORB | MET Day 011 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

174 | 175 | 176 | 177

00:00 | 01:00 | 02:00 | 03:00 | 04:00 | 18:00 | 19:00 | 20:00 | 21:00

-ZLV -XVV

On MCC GO: A15 APCU 1 OUTPUT-ON
CONV -ON
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

On MCC GO: A15 APCU 1 CONV - OFF
OUTPUT - OFF
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MS1: PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

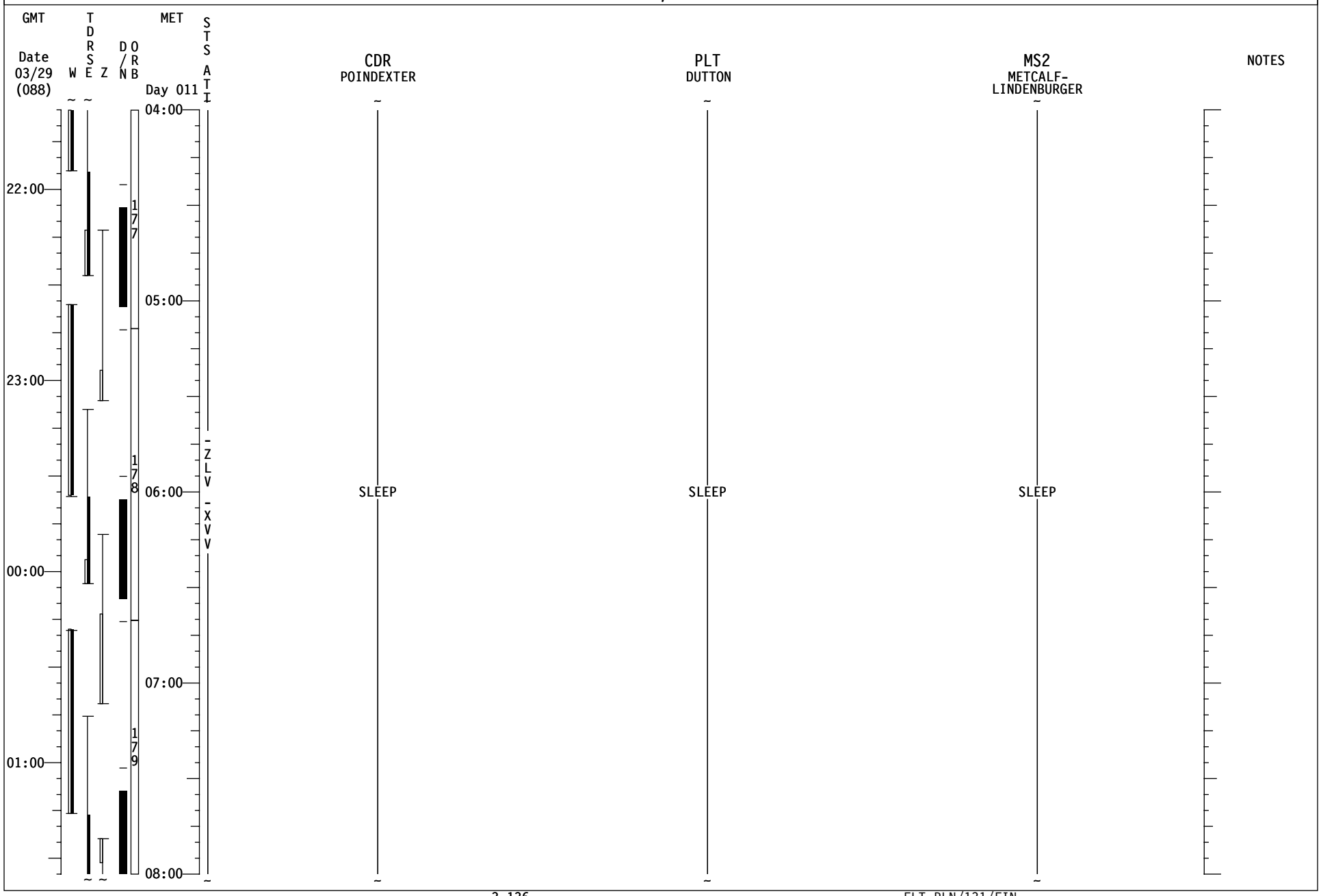
MS3: PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MS4: PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

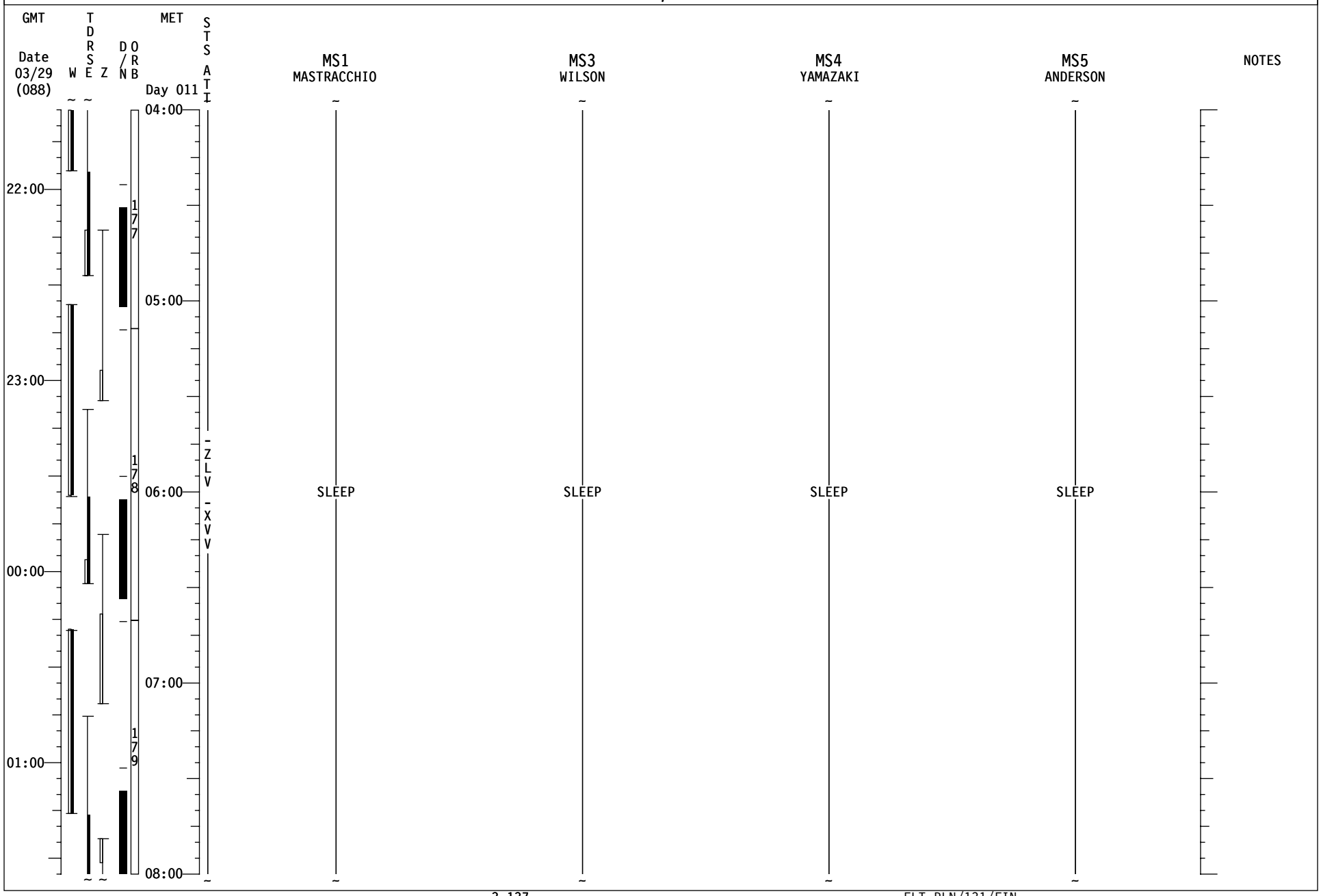
MS5: PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

SLEEP | SLEEP | SLEEP | SLEEP

STS-131/19A FD12



STS-131/19A FD12



STS-131/19A FD13

GMT Date 03/30 (089) | W | TDRS E | Z | D/N | ORB | MET Day 011 | STS ATI

CDR POINDEXTER | PLT DUTTON | MS2 METCALF-LINDENBURGER | NOTES

08:00 09:00 10:00 11:00 12:00

02:00 03:00 04:00 05:00

180 181 182

-ZLV -XVV

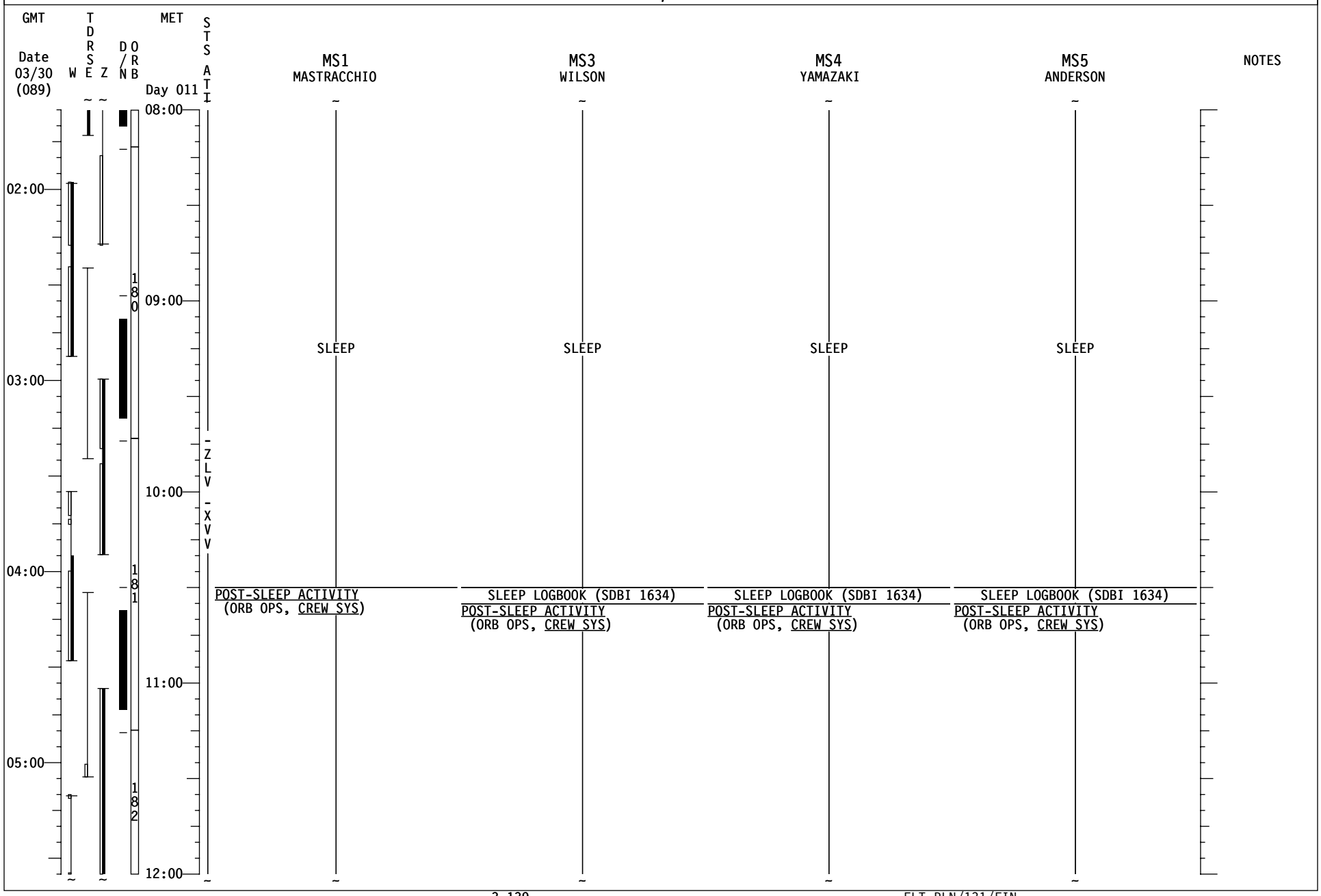
FD13 EZ ACTIVITIES:
- TEPC (ORB OPS, CREW SYSTEMS)
  - Check Status
- FLUID LOADING PREP
  - Ref. MSG XXX
  - Inform MCC prior to filling drink bags
- Hard reboot all PGSCs not shut down overnight, except: STS1 (OCA ROUTER), STS5 (RPOP2) and STS6 (WLES)

FD13 CABIN STOW ACTIVITIES:
- FLIGHTS WITH RETENTION NET
  - (REF DATA, ENTRY STOW)
  - Ref. MSG XXX
- Specialist Seat Installation
- Remove loose items stored in A/L

SLEEP | SLEEP | SLEEP

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) | POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) | POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

STS-131/19A FD13



STS-131/19A FD13

GMT Date 03/30 (089) | W | T D R S E Z | D/N | ORB | MET Day 011 | STS ATI

CDR POINDEXTER | **PLT** DUTTON | **MS2** METCALF-LINDENBURGER | NOTES

12:00

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

06:00

A R2 √BLR CNTLR/HTR(three) -B
PWR (three) -ON

W/B STEAM VENT HTR ACT A

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

FILTER CLEANING (IFM, SCHEDULED MAINTENANCE)

13:00

IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)

RECONFIGURE OCA DOWNLINK RATE (Ch. 2) (ORB OPS,PGSC) Part D then A (Omit step 4)

07:00

FCS CHECKOUT (ORB OPS, GNC)

FCS CHECKOUT (ORB OPS, GNC)

FCS CHECKOUT (ORB OPS, GNC)

TFL 161

14:00

08:00

RCS HOT FIRE TEST (ORB OPS, RCS)
Post RCS Hot Fire Test, DAP:AUTO

RCS HOT FIRE TEST (ORB OPS, RCS)

RCS HOT FIRE TEST (ORB OPS, RCS)

PILOT WITH RHC (FOR A31p PGSC) (ORB OPS, PGSC)

PILOT WITH RHC (FOR A31p PGSC) (ORB OPS, PGSC)

15:00

09:00

CABIN CONFIG/STOW

16:00

DEORBIT PREP BRIEFING

DEORBIT PREP BRIEFING

DEORBIT PREP BRIEFING

STS-131/19A FD13

GMT Date 03/30 (089) | W | TDRS E | TDRS Z | D/N | ORB | MET Day 011 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

12:00 — 13:00 — 14:00 — 15:00 — 16:00

06:00 — 07:00 — 08:00 — 09:00

ORB: 182, 183, 184

STS ATI: -ZLV -XVV; FCS/RCS; -ZLV -XVV

MS1 MASTRACCHIO

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

CABIN CONFIG/STOW

EXERCISE

DEORBIT PREP BRIEFING

MS3 WILSON

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

MERLIN STATUS CK (Cue Card)
GLACIER STATUS CK (Cue Card)
STL STATUS CK (Cue Card)
BRIC-16 ACTUATION (ASSY OPS, PAYLOADS)

CABIN CONFIG/STOW

DEORBIT PREP BRIEFING

MS4 YAMAZAKI

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

FCS C/O CAMR SETUP (P/TV, REF PROC)

SSV DEACTIVATION (P/TV, SSV)

CABIN CONFIG/STOW

NLP GAP TERMINATION (ASSY OPS, PAYLOADS)
Terminate GAPs 1-3 (MTBD)

CANON G1 (P/TV, REF PROC)
HD CC DNLK
PAO Event Setup

DEORBIT PREP BRIEFING

MS5 ANDERSON

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)

EXERCISE

CABIN CONFIG/STOW

DEORBIT PREP BRIEFING

STS-131/19A FD13

GMT Date 03/30 (089) | W | TDRS E | Z | D/N | ORB 185 186 187 | MET Day 011 | STS ATT -ZLV -XVV BIAS -ZLV -YVV

MET	CDR POINDEXTER	PLT DUTTON	MS2 METCALF-LINDENBURGER	NOTES
16:00	DEORBIT PREP BRIEFING	DEORBIT PREP BRIEFING	DEORBIT PREP BRIEFING	
10:00	COMM STRING 1 C/O (PART B RETURN TO STRING 2) (ORB OPS, COMM/INST)			
17:00	MEAL	MEAL	MEAL	
11:00		B After PAO Event complete: RECONFIGURE OCA DOWNLINK RATE (PL MAX) (ORB OPS, PGSC) Part C (Omit Step 4)		
	PUBLIC AFFAIRS EVENT KU TDRE (17:25-17:52)	PUBLIC AFFAIRS EVENT KU TDRE (17:25-17:52)	PUBLIC AFFAIRS EVENT KU TDRE (17:25-17:52)	
18:00	MNVR (TRK) BIAS -ZLV -YVV (Dump) TG=2 BV=3 OM=70 A1/AUTO/VERN, Init TRK		RECNFG OCA DOWNLINK RATE (PL MAX) B	
		SUPPLY/WASTE WATER DUMP (Simo Init) (ORB OPS, ECLS) Ref. MSG XXX		
12:00	CABIN CONFIG/STOW	CABIN CONFIG/STOW	CABIN CONFIG/STOW	
19:00	LANDING-1 COMM C/O (ORB OPS, COMM/INST) MLA (18:58-19:04)	SUPPLY/WASTE WATER DUMP (Simo Term) (ORB OPS, ECLS) Ref. MSG XXX		
13:00		CWC OVERBOARD DUMP (Init) (ORB OPS, ECLS) Ref. MSG XXX		
	EXERCISE	CABIN CONFIG/STOW	EXERCISE	
20:00				

STS-131/19A FD13

GMT Date 03/30 (089) | W | TDRS E | Z | D/N | ORB | MET Day 011 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

16:00 — 17:00 — 18:00 — 19:00 — 20:00

10:00 — 11:00 — 12:00 — 13:00

ORB: 185, 186, 187

STS ATI: -ZLV -XVV; BIAS -ZLV -YVV

MS1 MASTRACCHIO	MS3 WILSON	MS4 YAMAZAKI	MS5 ANDERSON
DEORBIT PREP BRIEFING	DEORBIT PREP BRIEFING	DEORBIT PREP BRIEFING	DEORBIT PREP BRIEFING
MEAL	MEAL	MEAL	MEAL
PUBLIC AFFAIRS EVENT KU TDRE (17:25-17:52)	PUBLIC AFFAIRS EVENT KU TDRE (17:25-17:52)	PUBLIC AFFAIRS EVENT KU TDRE (17:25-17:52)	PUBLIC AFFAIRS EVENT KU TDRE (17:25-17:52)
CABIN CONFIG/STOW	CABIN CONFIG/STOW	MINI-CAM (P/TV, REF PROC) ENTRY VIDEO SETUP	CABIN CONFIG/STOW
		CABIN CONFIG/STOW	
		EXERCISE	
		CABIN CONFIG/STOW	

STS-131/19A FD13

GMT Date 03/30 (089) | W | TDRS E | Z | D/N | ORB | MET Day 011 | STS ATI

ORB: 187, 188, 189, 190

STS ATI: BIAS -ZLV -YVV; -ZLV -XVV

CDR POINDEXTER	PLT DUTTON	MS2 METCALF-LINDENBURGER	NOTES
EXERCISE	CABIN CONFIG/STOW	EXERCISE	
SUPPLY WATER DUMP USING FES (ORB OPS, ECLS) Step 1 using FES Pri A			
	CWC OVERBOARD DUMP (Term) (ORB OPS, ECLS) Ref. MSG XXX		
	CWC OVERBOARD DUMP (Init) (ORB OPS, ECLS) Ref. MSG XXX		
CABIN CONFIG/STOW	EXERCISE	CABIN CONFIG/STOW	TFL 199
LANDING-1 COMM C/O (ORB OPS, COMM/INSI) DFR (22:03-22:09)	CWC OVERBOARD DUMP (Term) (ORB OPS, ECLS) Ref. MSG XXX		MPLM PRESSURE CHECK
MNVR (TRK) -ZLV -XVV TG=2 BV=3 OM=0 A1/AUTO/VERN, Init TRK			TFL 161
SUPPLY WATER DUMP USING FES (ORB OPS, ECLS) Perform Step 2 w/FES Pri A reqd	CABIN CONFIG/STOW	PGSC NETWORK (B.TEARDOWN) COLOR PRINTER STOW (ORB OPS, PGSC) Stow color printer and all STS PGSCs except STS-2 (WinDecom)	
ENTRY COOLING CONFIG [C] PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS) Air Quality Report	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
O6 √UHF MODE - OFF PRIVATE MEDICAL CONFERENCE VIA A/G 2			

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

STS-131/19A FD13

GMT Date 03/30 (089) | W | T D R S E | Z | D/N | O R B | MET Day 011 | STS ATI

MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

20:00

14:00

15:00

16:00

17:00

21:00

22:00

23:00

00:00

187 188 189 190

BIAS-ZLV-YVV

-ZLV-XVV

CABIN CONFIG/STOW

EXERCISE

CABIN CONFIG/STOW

CABIN CONFIG/STOW

CABIN CONFIG/STOW

CABIN CONFIG/STOW

On MCC GO: A15 APCU 1 OUTPUT - ON
CONV - ON

CABIN CONFIG/STOW

CABIN CONFIG/STOW

On MCC GO: A15 APCU 1 CONV - OFF
OUTPUT - OFF

SSP1 OIU PWR - OFF (tb-bp)

WLES DEACTIVATION & TEARDOWN
(ORB OPS, WLE SENSORS)

CYCLE ERGOMETER OPS
(ORB OPS, CREW SYS)
RECONFIG/STOW

MERLIN STATUS CK (Cue Card)
GLACIER STATUS CK (Cue Card)
STL STATUS CK (Cue Card)
AEM UNIT#1 CK (Cue Card)
AEM UNIT#2 CK (Cue Card)

A6L MADS STRAIN GAGE - ON
KU-BD ANT STOW (CIL)
(ORB OPS, COMM/INST)

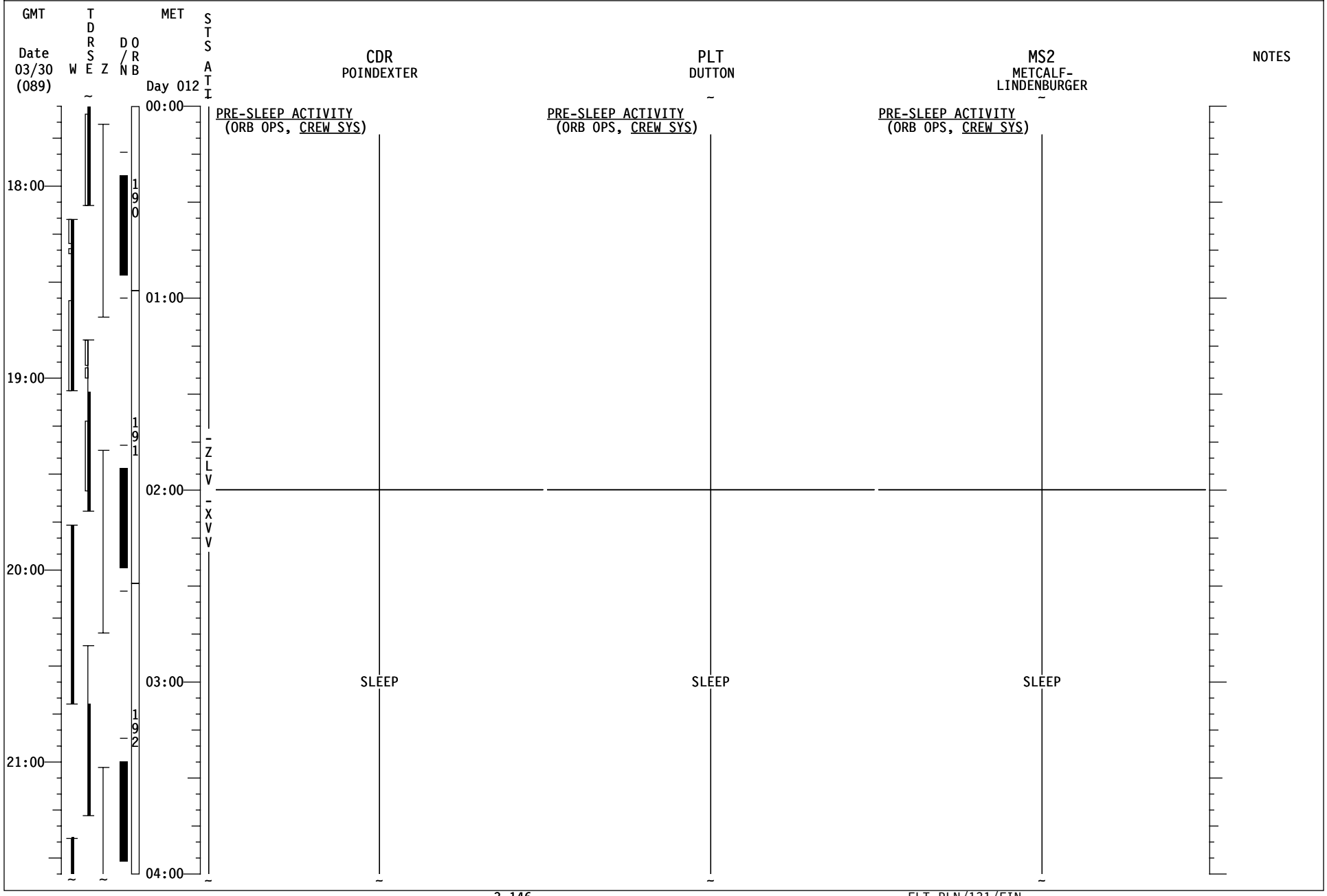
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

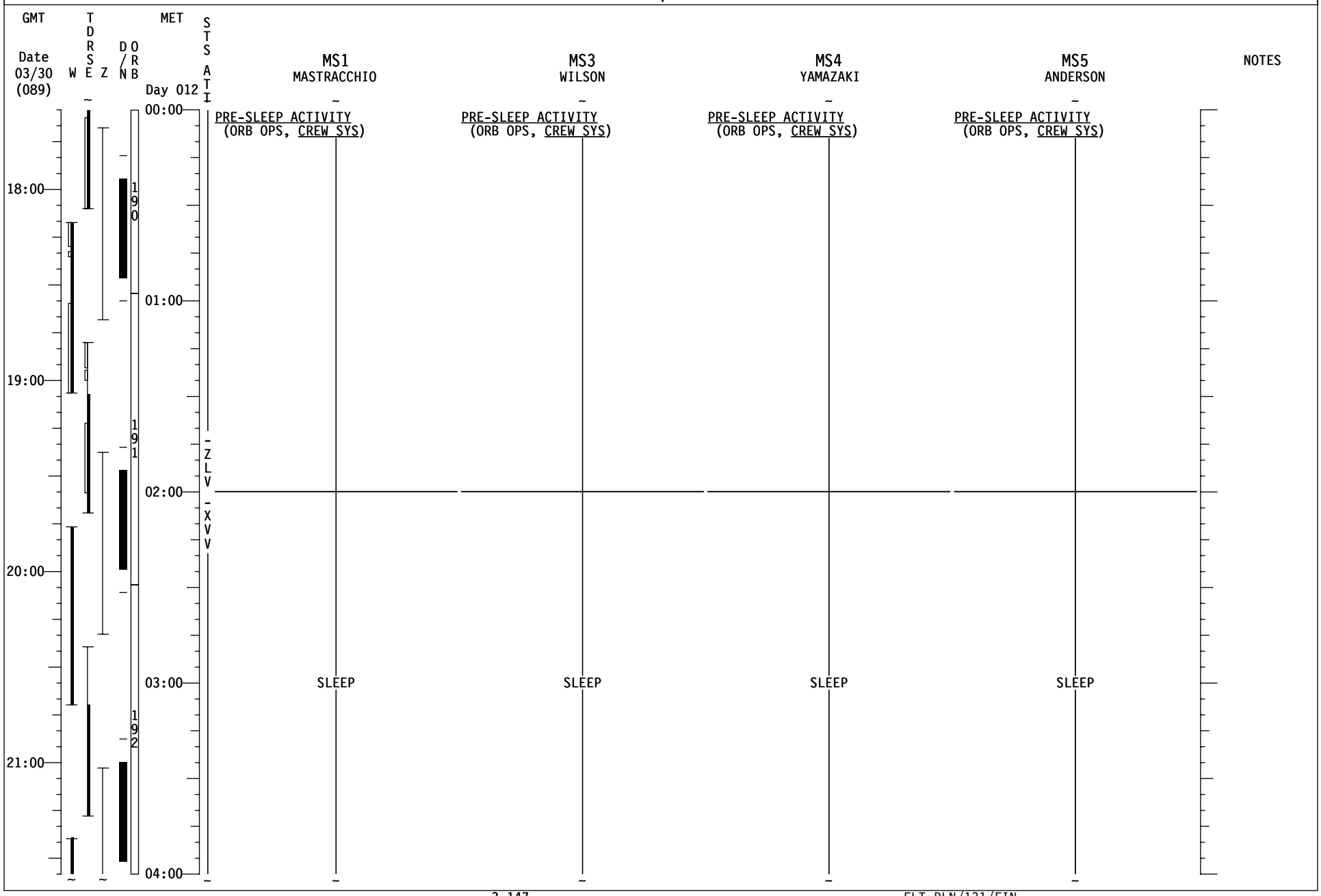
PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

STS-131/19A FD13



STS-131/19A FD13



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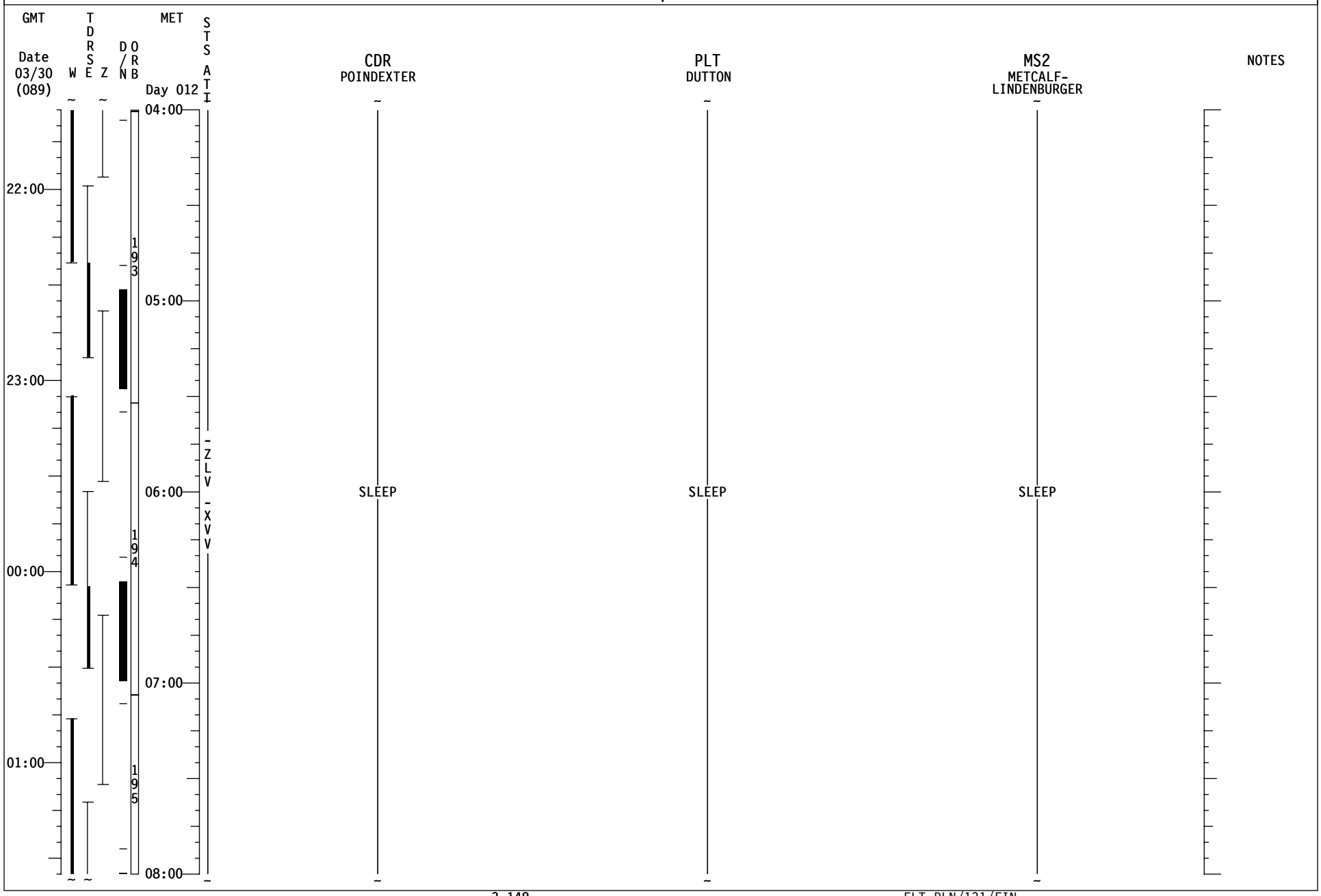
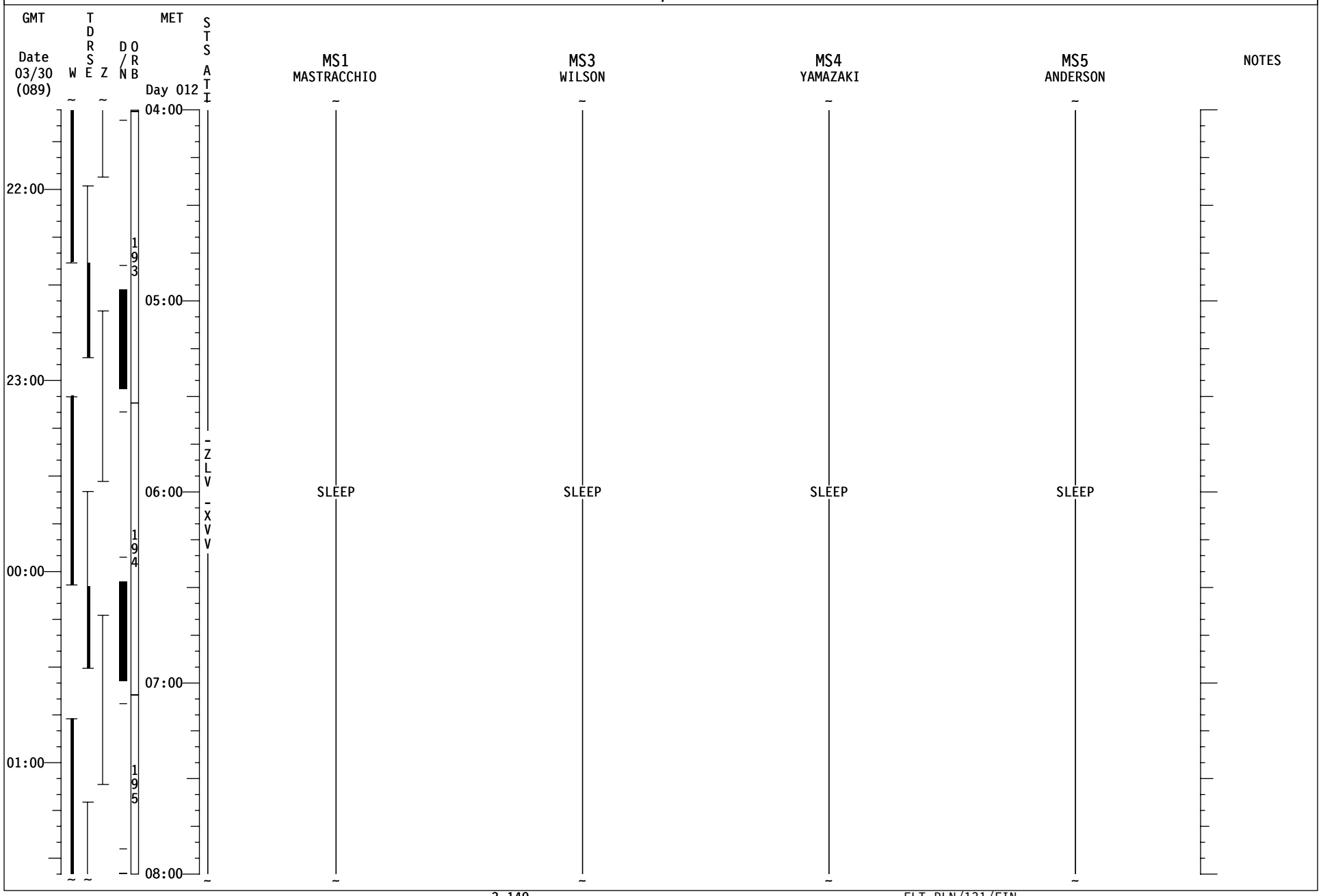


STS-131/19A FD13



STS-131/19A FD14

GMT Date 03/31 (090) | W | T D R S E | Z | D/N | O R B | MET Day 012 | STS ATI

CDR POINDEXTER | PLT DUTTON | MS2 METCALF-LINDENBURGER | NOTES

08:00 — 09:00 — 10:00 — 11:00 — 12:00

02:00 — 03:00 — 04:00 — 05:00

195 — 196 — 197 — 198

ZLV XVV

SLEEP (CDR)

SLEEP (PLT)

SLEEP (MS2)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) (CDR)

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) (PLT)

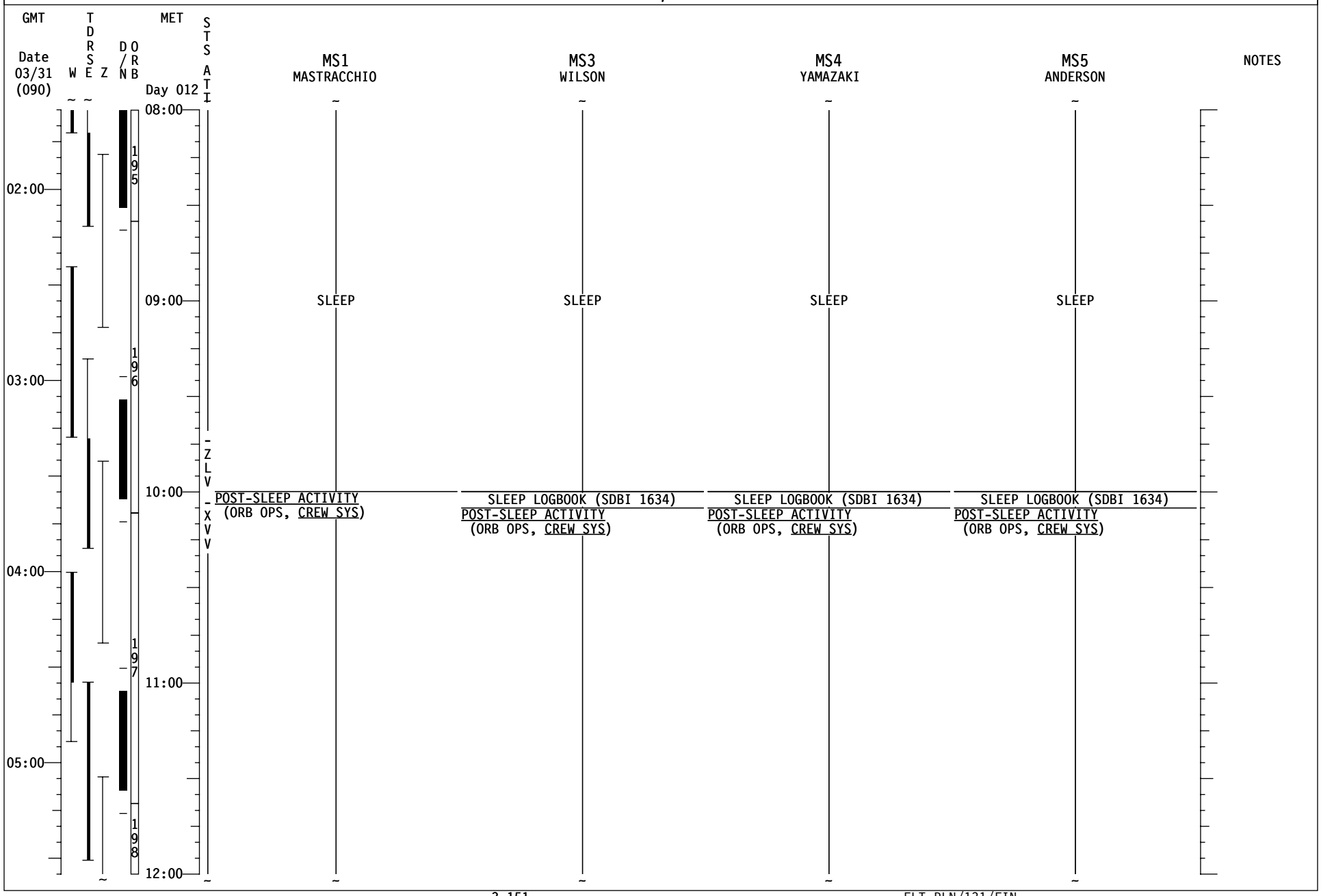
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) (MS2)

06 √UHF MODE - OFF
PRIVATE MEDICAL CONFERENCE VIA A/G 2

POST-SLEEP ACTIVITY (ORB OPS, CREW SYS) (CDR)

FD14 EZ ACTIVITIES BEFORE LEAVING FLIGHT PLAN:
- TEPC (ORB OPS, CREW SYSTEMS)
  - Check Status
- OCAC Filter Inspection
- Stow CSA-CP

STS-131/19A FD14



STS-131/19A FD14

GMT Date 03/31 (090) | W | TDRS E | Z | D/N | ORB 198 199 200 | MET Day 012 | STS ATI

CDR POINDEXTER

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- PRIORITY PWRUP GRP B (ORB PKT, PRIOR PWRDN) Steps 12 (IMU 3),7,6 (Dual G2),5
- MNVR IMU STAR ALIGN ATT A (pg 3-154) A1/AUTO/VERN, (12/12:20), Init MNVR
- IMU ALIGN - S TRK (ORB OPS, GNC)
- MNVR IMU VERIF ATT B (pg 3-154) A1/AUTO/VERN, Init MNVR
- IMU ALIGN - S TRK (ORB OPS, GNC)
- MNVR (TRK) BIAS -XSI TG=4 BV=5 P=184 Y=0 OM=90 A1/AUTO/VERN, (12/12:51), Init TRK

PLT DUTTON

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- PRIORITY PWRUP GRP B (ORB PKT, PRIOR PWRDN) Steps 12 (IMU 3),7,6 (Dual G2),5
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- A6L MADS STRAIN GAGE - PCM ENA

MS2 METCALF-LINDENBURGER

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- AIR SAMPLE - Rcd MET and location on bottle

NOTES

GO TO DEORBIT PREP @ 12/12:59

STS-131/19A FD14

GMT Date 03/31 (090) | W | TDRS E | Z | D/N | ORB 198 199 200 | MET Day 012 | STS ATI | MS1 MASTRACCHIO | MS3 WILSON | MS4 YAMAZAKI | MS5 ANDERSON | NOTES

12:00 — 06:00 — 07:00 — 08:00 — 09:00 — 13:00 — 14:00 — 15:00 — 16:00

STS ATI: IMU; BIAS-XSI; COMM

MS1 MASTRACCHIO

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- OCAC STOWAGE (ORB OPS, CREW SYS)

MS3 WILSON

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- PGSC NETWORK (B.TEARDOWN) (ORB OPS, PGSC)
- Stow remaining PGSCs
- SDBI 1634, SLEEP-WAKE ACTIGRAPHY (ORB OPS, SDBI) B. DOFF ACTIWATCH

MS4 YAMAZAKI

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- MERLIN STATUS CK (Cue Card)
- GLACIER STATUS CK (Cue Card)
- STL ENTRY PREP (ASSY OPS, P/L)
- AEM MUFFLER STOW
- Stow Mufflers in MF71C
- SDBI 1634, SLEEP-WAKE ACTIGRAPHY (ORB OPS, SDBI) B. DOFF ACTIWATCH

MS5 ANDERSON

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- TISSUE EQUIVALENT PROPORTIONAL COUNTER (TEPC) (ORB OPS, CREW SYSTEMS) Pwr Dwn
- GIRA STOWAGE (ORB OPS, ECLS)
- SDBI 1634, SLEEP-WAKE ACTIGRAPHY (ORB OPS, SDBI) B. DOFF ACTIWATCH

GO TO DEORBIT PREP @ 12/12:59

A IMU STAR ALIGN PAD

ID: -Y: 100 GAMMA TRI AUSTR
MET (12/12:29 TO 12/13:13)

ID: -Z: 41 DENEBOLA
MET (12/12:23 TO 12/13:06)

ANG DIFF: 91.1 deg

DUAL S TRKR ALIGNMENT		2nd ATTITUDE (SINGLE S TRKR) -Z: 100 -Y: 41	
R	4	R 281	72
P	103	P 95	125
Y	64	Y 72	68

REQD ID:

-Y: ____, -Z: ____, ANG ERR ____,____ ____

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

EXECUTION TIME: ___/___:___:___ MET

B IMU STAR VERIFICATION

ID: -Y: 28 AL NA'IR
MET (12/12:34 TO 12/13:22)

ID: -Z: 43 RASALHAGUE
MET (12/12:44 TO 12/13:33)

ANG DIFF: 85.0 deg

DUAL S TRKR ALIGNMENT		2nd ATTITUDE (SINGLE S TRKR) -Z: 28 -Y: 43	
R	287	R 201	12
P	132	P 136	121
Y	353	Y 7	342

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-48000-131
FINAL

FLIGHT PLAN

STS
131

Flight Cover (trim bottom to expose tabs)