

STS-118/13A.1

FD 10 Execute Package



MSG	Page(s)	Title
095B	1 - 15	FD10 Flight Plan Revision (pdf)
096	16 - 17	FD10 Mission Summary (pdf)
097A	18 - 20	FD10 Transfer Message (pdf)
098	21	FD10 - FD12 Water Ops Cue Card (pdf)
099	---	FD10 PAO Event Summary (pdf - Electronic Only)
100	---	Docked Audio Interface Unit (DAIU) Input Troubleshooting (pdf -
101	---	Docked Audio Troubleshooting Big Picture Words (pdf)
102	---	Foam Unpack From 13A.1 Resupply Bags (pdf - Electronic Only)
103	22 - 23	AUAI-1P to P1 BSP Connector Reconfiguration (pdf)
104	24 - 25	EVA Get Ahead Procedure CMG ADJ SHIMS (pdf)
105	---	EVA 4 Detailed Timeline (pdf - Electronic Only)
093A	---	FD09 MMT Summary (pdf - Electronic Only)

Approved by FAO: Roger Smith

Last Updated: Aug 17 2007 10:02AM GMT

JEDI (Joint **E**xecute package **D**evelopment and **I**ntegration), v2.04.0003

1 MSG INDEX

2 MSG NO. TITLE

3	093	FD09 MMT Summary
4	095	FD10 Flight Plan Revision
5	096	FD10 Mission Summary
6	097	FD10 Transfer Message
7	098	FD10 - FD12 Water Ops Cue Card
8	099	FD10 PAO Event Summary
9	100	Docked Audio Interface Unit (DAIU) Input Troubleshooting
10	101	Docked Audio Troubleshooting Big Picture Words
11	102	Foam Unpack From 13A.1 Resupply Bags
12	103	AUAI-1P to P1 BSP Connector Reconfiguration
13	104	EVA Get Ahead Procedures CMG ADJ SHIMS
14	105	EVA 4 Detailed Timeline

- 15
- 16 1. For today's cryo config, H2 Tanks 2 and 5 will be active with dual heaters, and O2 Tank
17 2 will be active using manual heater ops (single heater). Reference Message 032 for
18 O2 Tank 2 manual heater operations (MCC will TMBU O2 Tank 2 pressure limits).

19

20 **R1 CRYO O2,H2 MANF VLV TK1 (two) - OP (tb-OP)**
21 **TK1 HTRS A,B (four) - OFF**
22 **O2 TK2 HTRS A - ON**
23 **H2 TK2 HTRS A,B (two) - AUTO**

24

25 **A11 CRYO TK4 HTRS O2 A - OFF**

- 26
- 27 2. Change the Presleep FD10 LiOH can changeout.

28

29 from: STS-114_13
30 to: STS-121_34

- 31
- 32 3. There are no SPACEHAB viewport violations for FD10.

- 33
- 34 4. Tracy, Dave, and Clay - We have updated your EVA 4 procedures. MSG 105 (15-0976)
35 replaces FS 7-97 through 7-129. The SSPTS inhibits (LAB FWD) have been
36 incorporated into these procedures. We're looking forward to another great EVA!
37 We have also uplinked CMG Adjustable Shim Install Procedures as a get ahead, it
38 includes retrieval of the Lg/Sm RET; reference MSG 104 (15-0975).

39

40 Also, we anticipate some additional glove inspection criteria pen & ink changes that will
41 be uplinked to you later today.

- 42
- 43 5. Rick, Dave, and Clay - The answer to your question regarding the high water temps in
44 post EVA 3 is that the EMU was in LCVG bypass at the time, therefore increased
45 temperature would be expected. A reminder to all the EV crew is that Temperature
46 Control Valve (TCV) settings between 2 and H (MAX HOT) will stagnate LCVG flow and
47 H2O TEMP will increase. This setting range is appropriate for periods of low metabolic
48 activity, however we recommend avoiding extended periods in this TCV range as the
49 resulting lower dew point can result in fogging, condensation, and possible water related
50 CO2 sensor failures.

1 6. Today Al and Scorch will be executing Docked Audio Troubleshooting. We do have
2 Fyodor, Clay and Oleg scheduled for a few activities to help with ISS-specific tasks (ex.
3 Hardline power for Scopemeter and Laptops and Rack rotation). We have uplinked
4 Docked Audio Troubleshooting Big Picture Words (MSG 101) for your review, if you feel
5 necessary. We have also uplinked the Docked Audio Interface Unit (DAIU) Input
6 Troubleshooting procedure, MSG 100 (15-0824), and we flew two hardcopies of the
7 procedure in the ODF 0.5 CTB (S/N 1336) located at LAB1O6 rackfront.

8
9 We would also like to mention that we are going to do another comm check during the
10 equipment setup to verify our starting config. We realize this is a repeat of the comm
11 check you did yesterday, but because of the nature of this intermittent problem, we need
12 to ensure the failure still exists. Our troubleshooting procedure is written to try to find the
13 problem; if the problem is not occurring, we won't be able to find it.

14
15 And finally, we'd like to give you a few reminders about today's comm config. Once the
16 DAIU is deactivated after our morning voice checks (229/11:20), ICOM A and ISS C&W
17 Tones to the shuttle will be unavailable until after the midday meal when we reactivate
18 the DAIU (scheduled for 229/19:12). Also, the Big Loop will be deactivated during the 4-
19 hour Troubleshooting activities (scheduled for 229/15:02 through 19:12).

20
21 7. Immediately following the crew conference, an opportunity to view VSSA-FSE, jettisoned
22 during US EVA-9 on July 23, will occur as it "laps" ISS in its orbit for the first time. The
23 optimal time to view the VSSA passing will be GMT 229 (18:17 – 18:21) today.

24
25 **The following ISS windows will offer views of VSSA:**

26
27 **DC1** -- VSSA is traveling from the Orbiter vertical stabilizer to the Strella.

28
29 **Node1 Nadir** -- VSSA is traveling from trailing edge of port wing at 18:18 heading
30 out of plane south. (we expect this window to be blocked)

31
32 **SM windows:**

- 33 • 6, 7 -- VSSA appearing at the DC1-Progress interface and moving out
34 of plane south.
- 35 • 8, 9 -- VSSA has same motion as in windows 6, 7 but more nadir on
36 Progress and above solar arrays.

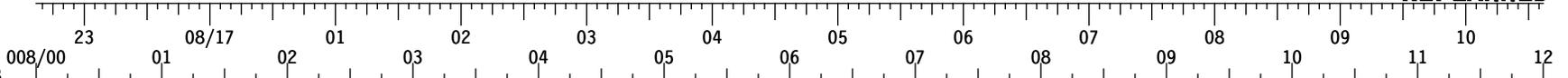
37
38 **From Endeavour** - The best view will be through CCTV-A pointed just above the port
39 longeron midway between the forward payload bay bulkhead and the SRMS shoulder
40 joint. VSSA will appear above the longeron around 229/18:20:12 GMT and will
41 disappear into Earth's shadow at 229/18:21:34 GMT. Apparent angular rate from your
42 viewpoint should be about 0.1 deg/sec.

43
44 Photography for this event is optional for any ISS or Shuttle crew member. In parallel,
45 we plan to take live Ku downlink from applicable Station cameras.

46
47 8. There are no exercise constraints for any of the activities on FD10.

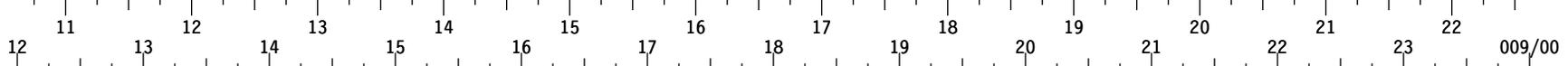
48
49 9. Replace pages 2-32, 2-34, 2-36 and 3-102 through 3-111.

GMT 08/16/07 (228)
 β=6.33
 MET Day 008



S T S - 1 1 8	FD09	PRE SLEEP	PMC A/G	PRE SLEEP		SLEEP		FD10	LOG	POST SLEEP	
	CDR KELLY										
	PLT HOBAUGH	PRE SLEEP				SLEEP			LOG	POST SLEEP	
	MS1 CALDWELL	PRE SLEEP				SLEEP			LOG	POST SLEEP	
	MS2 MASTRACCHIO	PRE SLEEP				SLEEP			LOG	POST SLEEP	
	MS3 WILLIAMS	PRE SLEEP				SLEEP			LOG	POST SLEEP	
	MS4 MORGAN	PRE SLEEP - SHAB				SLEEP			LOG	POST SLEEP - SHAB	
MS5 DREW	PRE SLEEP	PFC A/G	PRE SLEEP		SLEEP					POST SLEEP	
E X P 1 5	ISS CDR YURCHIKHIN	PRE SLEEP				SLEEP (8.5)				POST SLEEP	
	FE-1 KOTOV	PRE SLEEP				SLEEP (8.5)				POST SLEEP	
	FE-2 ANDERSON	PRE SLEEP				SLEEP (8.5)			MO 9	POST SLEEP	
S T S	DAY/NIGHT	[Bar chart showing day/night cycle]									
	ORBIT	127	128	129	130	131	132	133	134	135	
	TDRS	W -171	E -46	Z -275	[Bar chart showing TDRS activity]						
	ORB ATT	BIAS -XLV -ZVV									
NOTES											

GMT 08/17/07 (229)
 β = 3.93
 MET Day 008

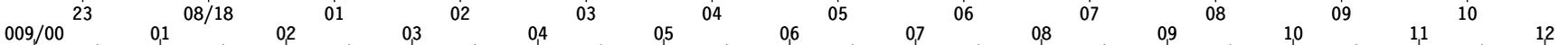


STS-118	FD10	CDR/SUIT IV KELLY	POST SLEEP	CIMCIT-7	EXERCISE	CTWRM-7	CXFCR	N2*	N2*	CPREWTO	CREW CONF	MEAL	COND T/D & SMPL	CDBATILY	EVA 4 PROC RVW					
		PLT HOBAUGH	POST SLEEP	SSWDA P	DSAFIE*	PSOLETE	FLTR CLN - INSPECT	02TRM	02 P/B CONFIG	DAIU TROUBLESHOOT	CPREWTO	CREW CONF	MEAL	SHAB DEBRS SCREEN CK	EXERCISE	EVA 4 PROC RVW				
		MS1/IV CALDWELL	POST SLEEP	MCIU*	EVA4 TOOL	CFER	EXERCISE	CFER	CPREWTO	CREW CONF	MEAL	FOAM UNPACK	EVA 4 PROC RVW							
		MS2 MASTRACCHIO	POST SLEEP	EXERCISE	CFER	EMU SWAP	E-LK PREP	CPREWTO	CREW CONF	MEAL	FOAM UNPACK	EVA 4 PROC RVW								
		MS3/EV2 WILLIAMS	POST SLEEP	EVA4 TOOL	CFER	EXERCISE	MEMEANTX	EMU SWAP	E-LK PREP	CPREWTO	CREW CONF	MEAL	PRE SLEEP	EVA 4 PROC RVW						
		MS4 MORGAN	POST SLEEP - SHAB	XUFRD AT	POST SLEEP	CFER	EXERCISE	CFER	CPREWTO	CREW CONF	MEAL	FOAM UNPACK	XTFAGRUP	EVA 4 PROC RVW						
		MS5 DREW	POST SLEEP	DAIU SETUP	DAIU STOW RMVL	EXERCISE	DAIU TROUBLESHOOT	PTV 05 PAO SU	CPREWTO	CREW CONF	MEAL	DAIU ACT*	DAIU CLOSEOUT	XTFAGRUP	EVA 4 PROC RVW	PSLEEPEP				
EXP 15		ISS CDR YURCHIKHIN	DPC PREP WORK	SSWDA P	DSAFIE*	RS TV D/L	MGW 18 PREP	IMS EDIT	MGW-18-CLST	EXERCISE TVIS	CM-PO-OCMOTP	PREP	CPREWTO	CREW CONF	MIDDAY-MEAL	CM-PO-OCMOTP	EXERCISE VELO+RED	EVA 4 PROC RVW		
		FE-1 KOTOV	DPC PREP WORK	COX MNT	RS TV D/L	EXERCISE TVIS	DAIU ACCESS	CMO PHS D/E	EXERCISE RED	DCS S/U	PREP	CPREWTO	CREW CONF	MIDDAY-MEAL	Φ-CYD-DEINSTL	EXDL	EVA 4 PROC RVW			
		FE-2/EV3 ANDERSON	DPC PREP WORK	DAIU SETUP	EVA4 TOOL	02TRM	02 P/B CONFIG	PHS SUB	EXERCISE CEVIS	EMU SWAP	E-LK PREP	PREP	CPREWTO	CREW CONF	MIDDAY-MEAL	DAIU ACT*	DCALIOUSE	JRN L	EXERCISE RED	EVA 4 PROC RVW
STS	DAY/NIGHT ORBIT	[Timeline bars for Day/Night and Orbit]																		
	TDRS	W -171	[Timeline bars for TDRS W -171]																	
		E -46	[Timeline bars for TDRS E -46]																	
	Z -275	[Timeline bars for TDRS Z -275]																		
	ORB ATT	[Timeline bars for Orb Att]																		
NOTES	*Voice Ck & Safing *FILTER CK *INIT *TERM *TERM BIAS -XLV -ZVV *Voice Checks																			

GMT 08/17/07 (229)

β = 1.52

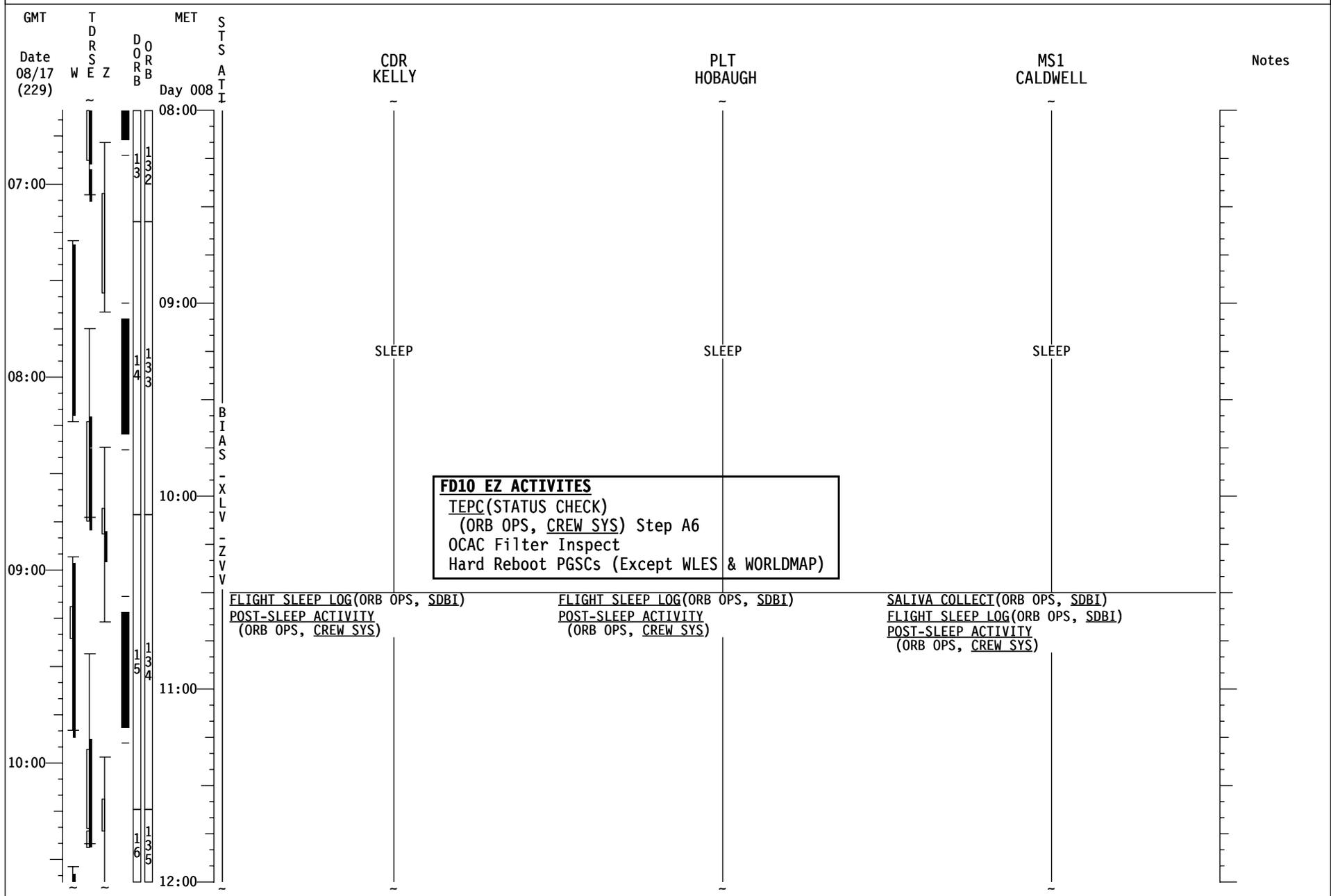
MET Day 009



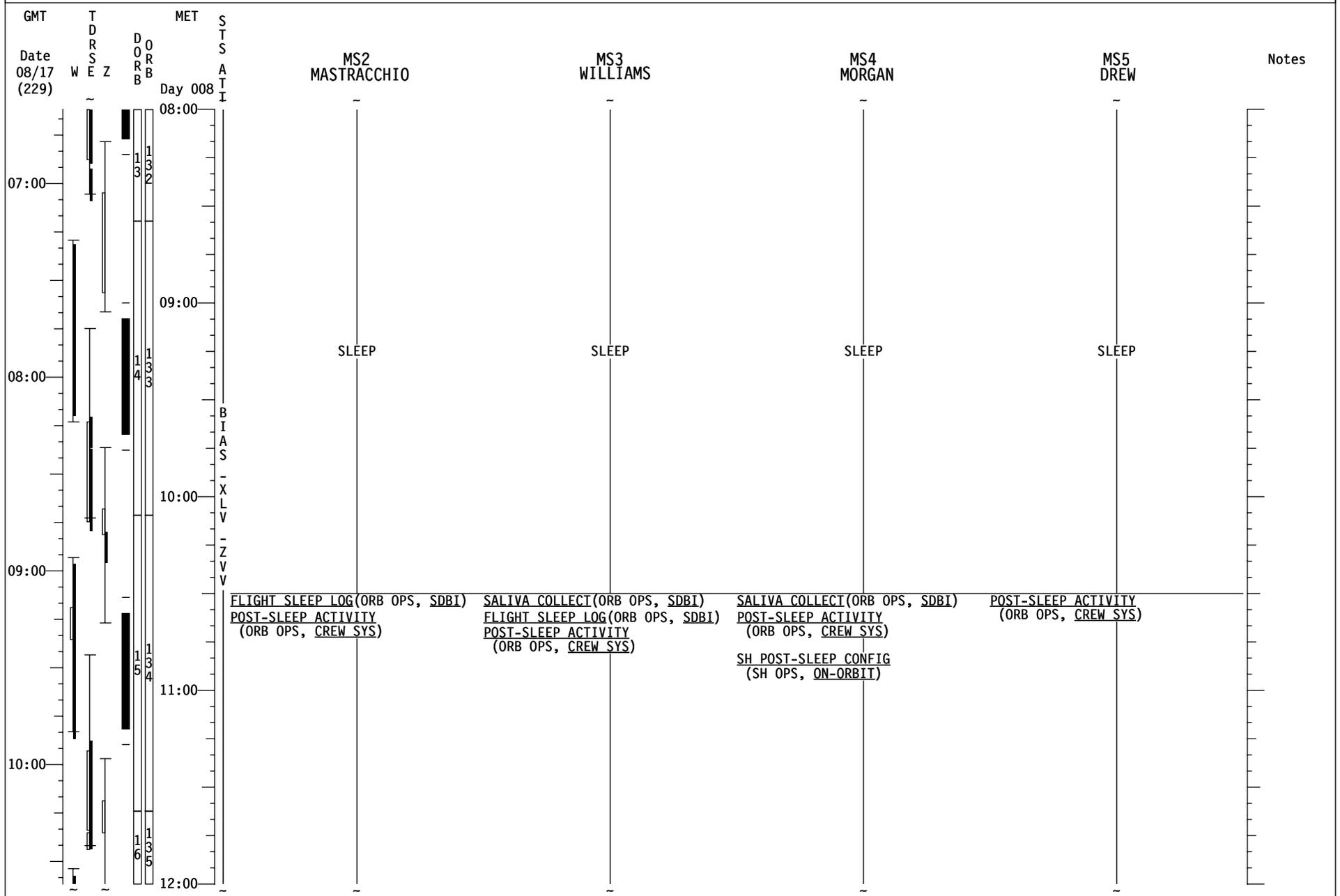
S T S - 1 1 8	FD10	CDR/SUIT IV KELLY	PRE SLEEP CK HUM SEP	PMC A/G	PRE SLEEP	SLEEP	FD11	POST SLEEP	PMC A/G	POST SLEEP	*	
		PLT HOBAUGH	PRE SLEEP			SLEEP		LOG		POST SLEEP-HUM SEP		
		MS1/IV CALDWELL	PRE SLEEP			SLEEP		LOG		POST SLEEP		
		MS2 MASTRACCHIO	PRE SLEEP			SLEEP		LOG		POST SLEEP	⊕	
		MS3/EV2 WILLIAMS	PRE SLEEP	MASK PB/TOOL CONFIG	PRE SLEEP	SLEEP	ISS A/L CAMPOUT @ 10.2 psi		POST SLEEP		HYGN BREAK/ PREBRTHE	
		MS4 MORGAN	PRE SLP SHAB	XFER BRIEF	PRE SLEEP - SHAB	SLEEP		LOG		POST SLEEP - SHAB		
		MS5 DREW	PRE SLEEP			SLEEP				POST SLEEP		
E X P 1 5		ISS CDR YURCHIKHIN	DPC	PRE SLEEP	SLEEP (8.5)			POST SLEEP		D P C		
		FE-1 KOTOV	DPC	PRE SLEEP	SLEEP (8.5)			POST SLEEP		D P C		
		FE-2/EV3 ANDERSON	DPC	PRE SLEEP	PMC	MASK PB/TOOL CONFIG	SLEEP (8.5) ISS A/L CAMPOUT @ 10.2 psi	POST SLEEP		HYGN BREAK/ PREBRTHE		
S T S	DAY/NIGHT	[Timeline with alternating black and white bars]										
	ORBIT	[Timeline with alternating black and white bars]										
	TDRS	W -171	[Timeline with alternating black and white bars]									
	E -46	[Timeline with alternating black and white bars]										
	Z -275	[Timeline with alternating black and white bars]										
	ORB ATT	BIAS -XLV -ZVV										
	NOTES											

*HYG BRK/
⊕HYG BRK/

STS-118 FD 10



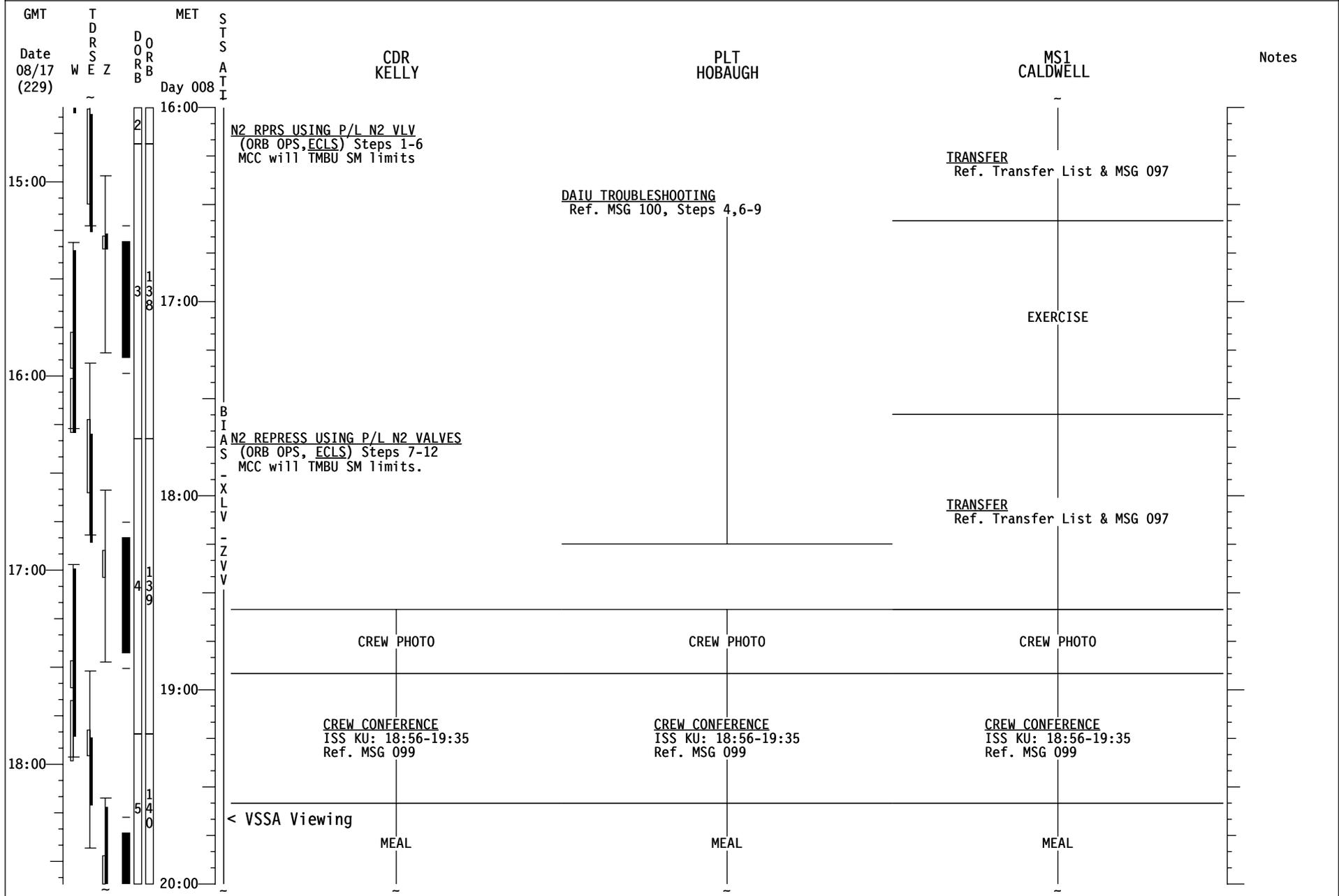
STS-118 FD 10



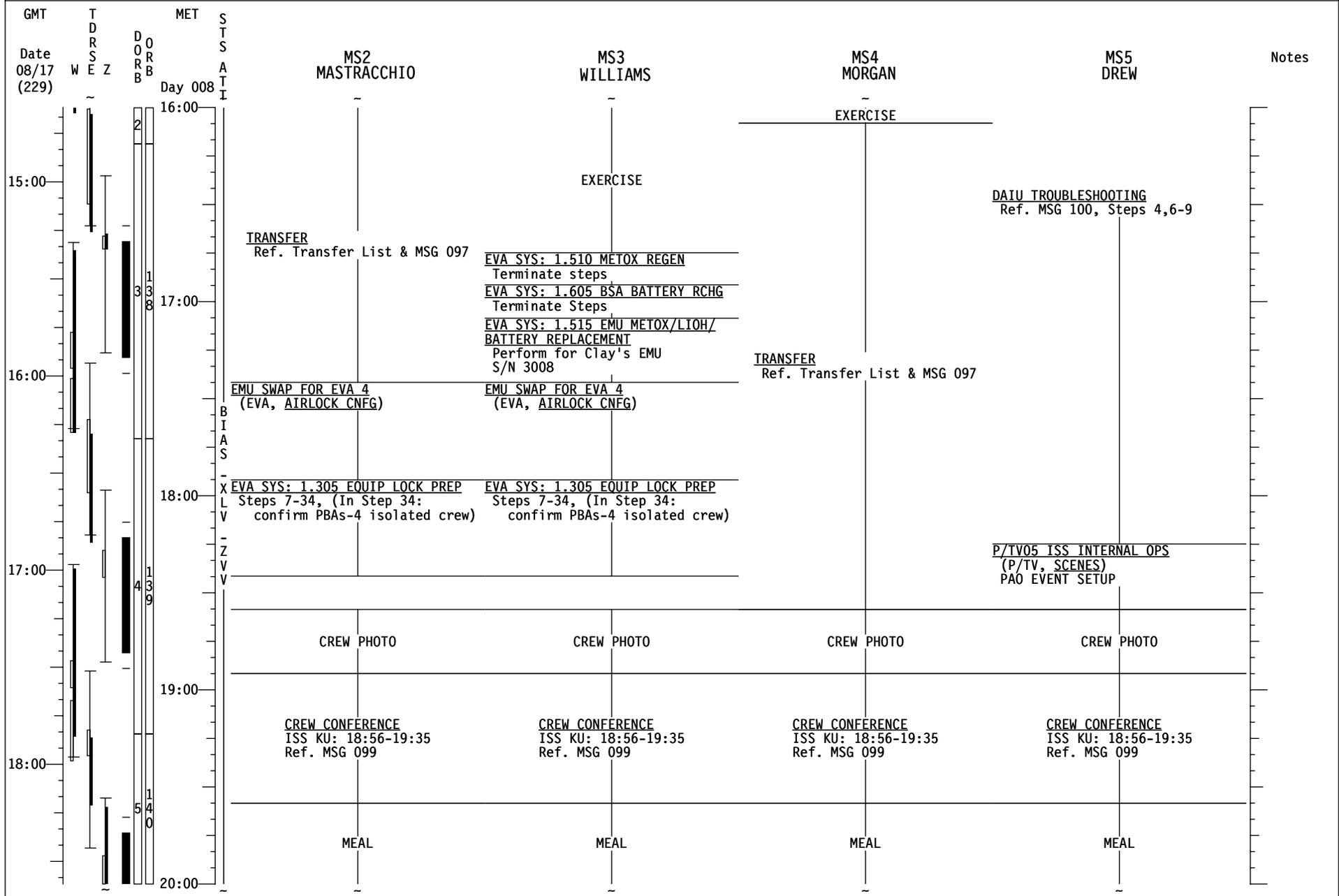
STS-118 FD 10

GMT	TDRSEZ	MET	STS	CDR	PLT	MS1	Notes
Date	W E Z	Day	A T I	KELLY	HOBGAUGH	CALDWELL	
08/17 (229)		008					
12:00				POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
13:00					AUAI-P1 to P1 BSP CONNECTOR RECNG Ref. MSG 103; Move stowage access LAB1D2 UIP; do not block LAB1P1 rack rotation path		
12:00					DAIU INPUT TROUBLESHOOTING Ref. MSG 100, Step 3		
14:00					POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
13:00				EXERCISE			
14:00				CCM-A STATUS CK(PL OPS, CCM-A) SIMU STAR OF OPPTY ALIGN(ORB OPS,GNC) STS/ISS H2O CNTR FILL (ORB OPS,ECLS)Init CWC FILL#7 Duration ~50min, Ref. MSG 098	FILTER CLEANING (IFM, SCHEDULED MAINT) Inspect filters & clean as necessary Also check SH Booster Fan Bypass duct inlet	L17 Check MCIU filter screen PRE EVA 4 TOOL CONFIG (EVA, TIMELINES) Ref. MSG 105	
15:00							
14:00				STS/ISS H2O CNTR FILL (ORB OPS,ECLS)Term CWC FILL#7 Ref MSG 098	JNT OPS: 3.128 O2 TRANSFER TO HI P AND LO P O2 TANKS Step 3		
14:00				CWC TRANSFER (1 BAG) Transfer 1 CWC bag to ISS Ref. MSG 098	JNT OPS: 3.121 PREBREATHE USING SHUTTLE O2 SETUP (POST TRANSFER) Steps 1-5; In step 5.3, do not reinstall panel A/L10A2. MCC-H will perform 6	TRANSFER Ref. Transfer List & MSG 097	
16:00							

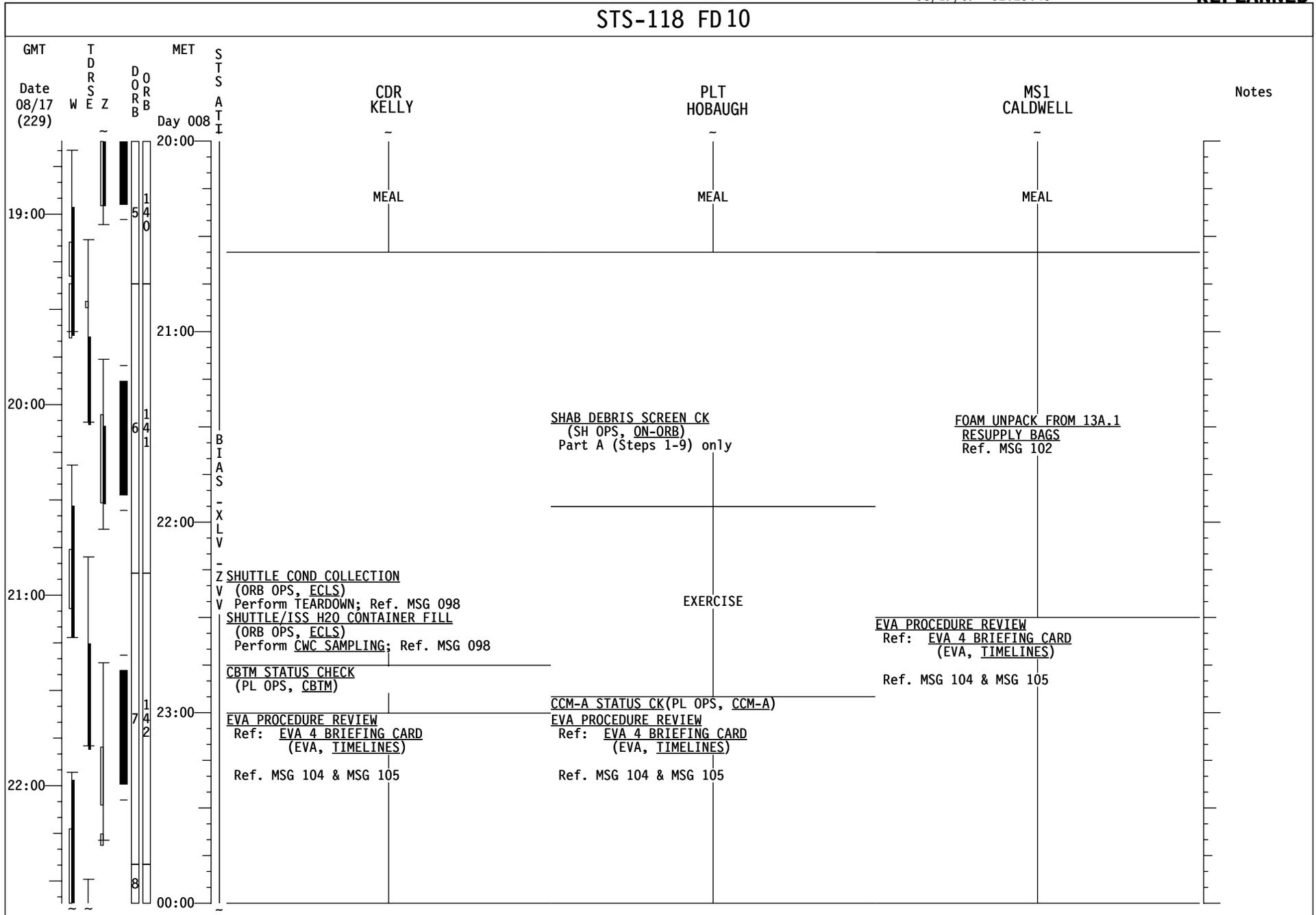
STS-118 FD10



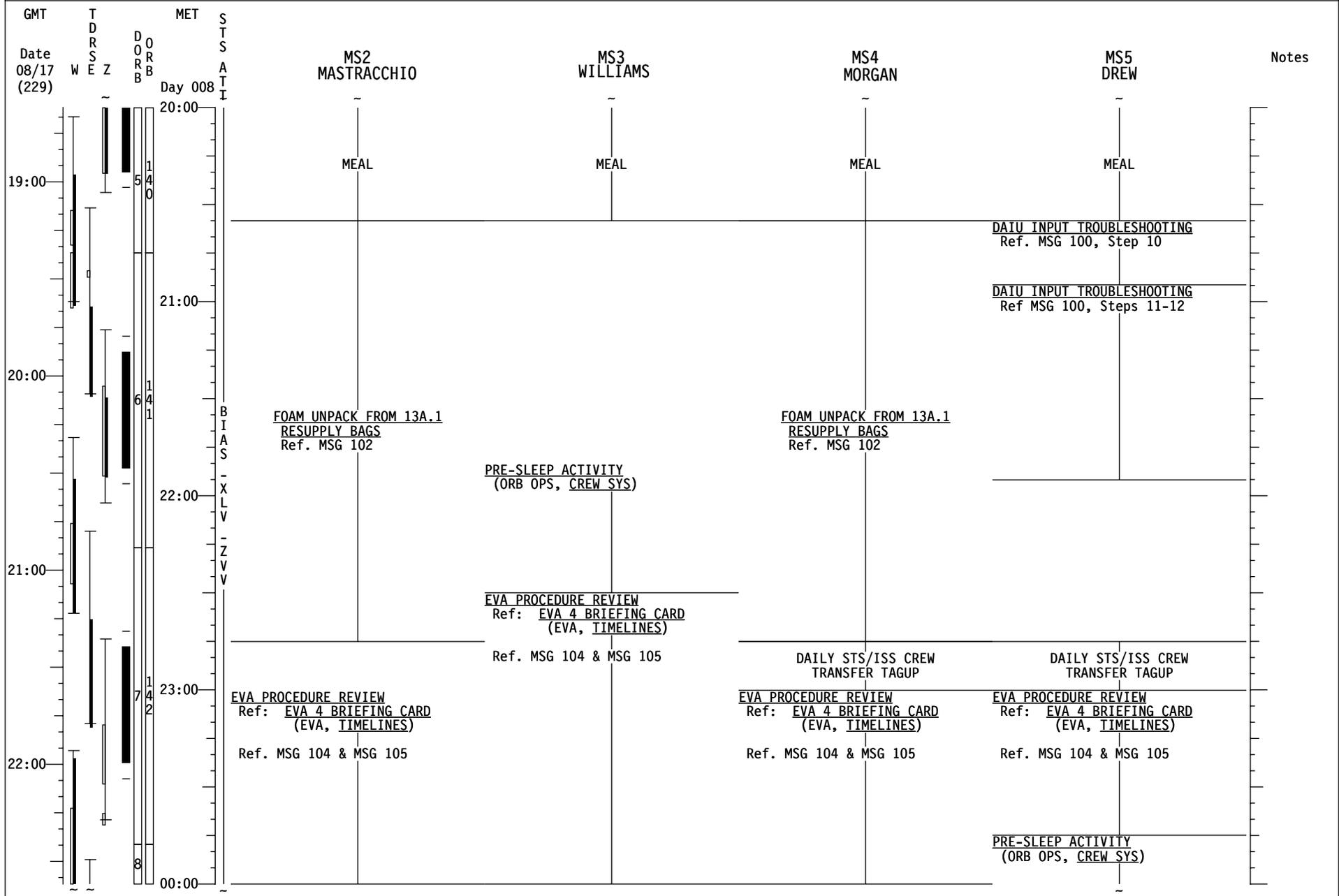
STS-118 FD10



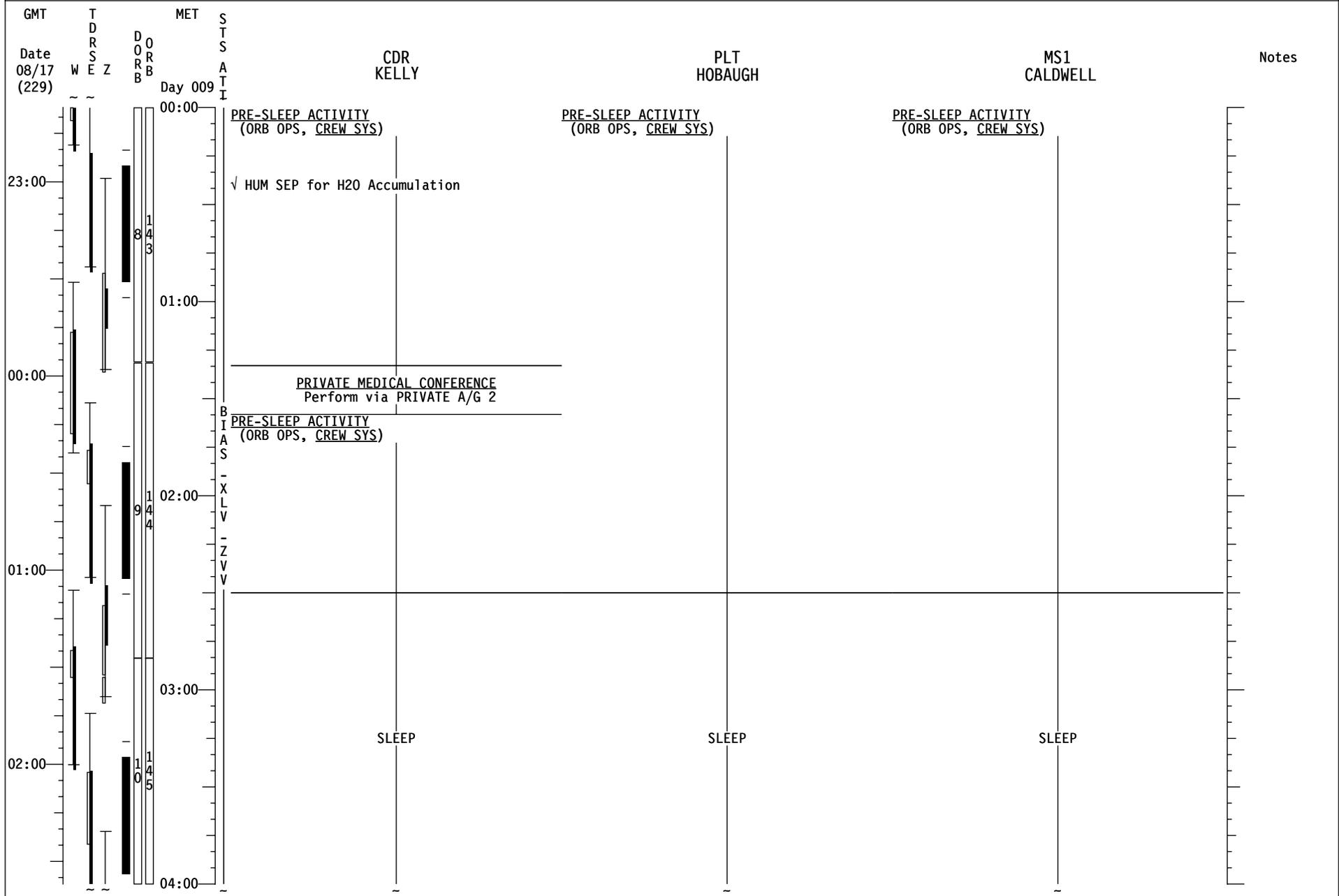
STS-118 FD 10



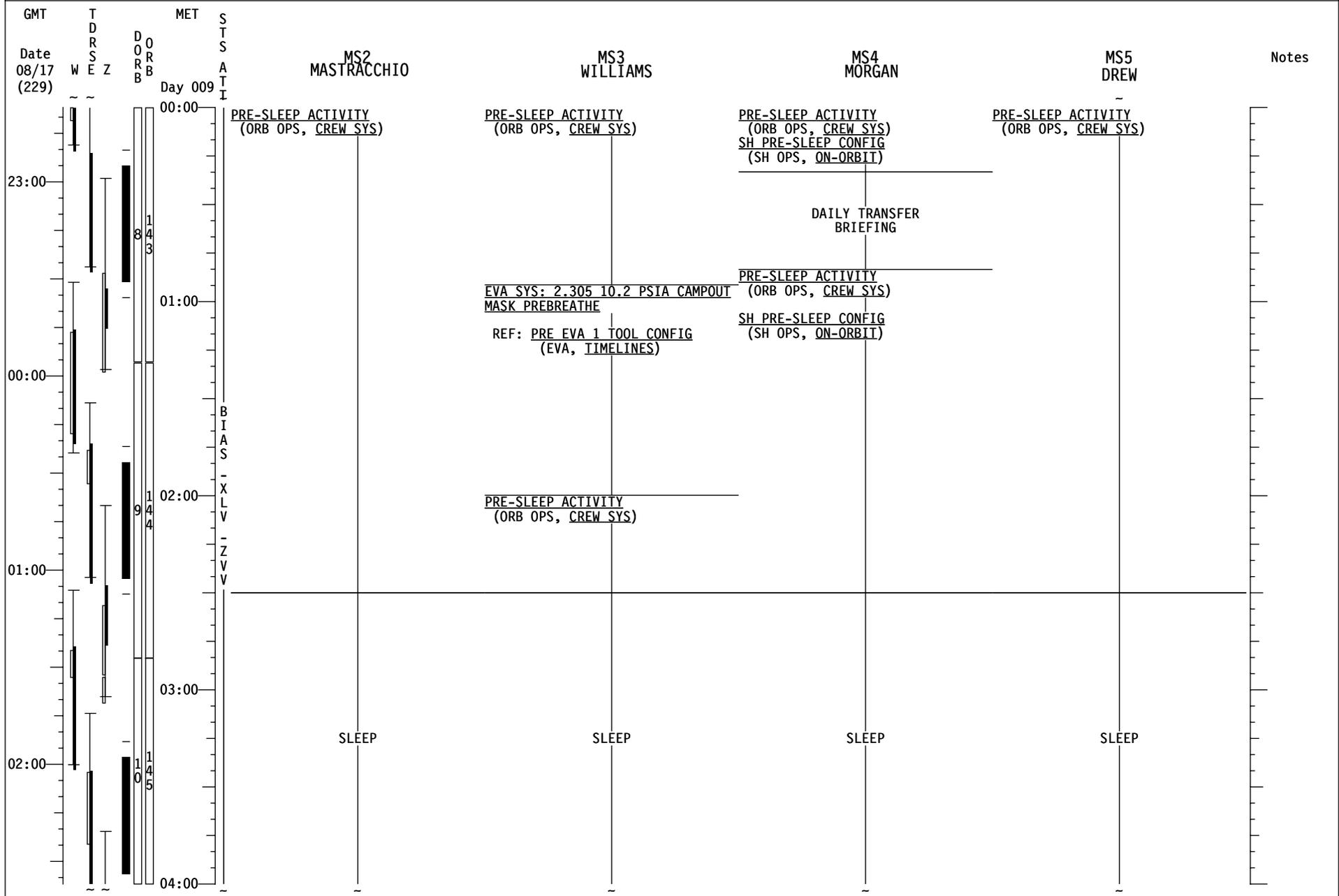
STS-118 FD10



STS-118 FD10



STS-118 FD 10



MSG 096 (15-0968) - FD10 MISSION SUMMARY

Page 1 of 2

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Good Morning Endeavour!

It is hard to believe that today is already FD10 of the fantastic flight of STS-118. All of you are doing an outstanding job!

Transfer ops are really going great! We are in the home stretch! Thank you for paying such close attention to all the details!

The note and the callout in the timeline about the possibility of seeing the VSSA-FSE jettisoned earlier from station. Station will be commanding ISS cameras from the ground to look for VSSA, so the notes for you are just for your information. Feel free to look if you desire!

Have a great day!

YOUR CURRENT ORBIT IS: 186 x 184 NM

NOTAMS:

- EDW – EDWARDS: RWY 15/33 ELS ONLY. RWY 18L NOT USABLE
- NOR – NORTHROP: RWY 17 GREEN. RWY23 STILL RED - WET.
- ILM – WILMINGTON: RWY 17/35 CLOSED 17 AUG 1200Z-2359Z.
RWY 31 THLD DISPLACED 1,542' 0915Z-1445Z DAILY UNTIL 20 AUG.
- ZZA – ZARAGOZA: FIRST 600 METERS OF RWY 30L NOT AVAILABLE 0600Z-1800Z DAILY.
- YHZ – HALIFAX: RWY 14/32 CLOSED DAILY 1130Z-2100Z 13 AUG TO 17 AUG.
RWY 23 THLD DISPLACED 1,200' 1130Z-2100Z 13 AUG TO 17 AUG.
- MRN – CLOSED TO DOD OPERATIONS 1900Z TO 0259Z DAILY
- NKT – CHERRY POINT: RWY 14R/32L CLOSED 13 AUG TO 16 SEP.
- WAK – WAKE ISLAND: CLOSED DUE TO RECONSTRUCTION.
- YYR – GOOSE BAY: RWY 08/26 CLOSED. 16/34 AVAILABLE.
- IKF – KEFLAVIK: NO AGREEMENT FOR USE.
- AWG – RIO GALLEGOS: NO AGREEMENT FOR USE.

NEXT 2 PLS OPPORTUNITIES:

- EDW22 ORB 141 – 8/21:36 (FEW120 SCT220 230/15P23)
- NOR17 ORB 156 – 9/20:25 (SCT100 230/5P10)

OMS TANK FAIL CAPABILITY:

- L OMS FAIL: NO
- R OMS FAIL: NO

MSG 096 (15-0968) - FD10 MISSION SUMMARY

Page 2 of 2

1 LEAKING OMS PRPLT BURN:

2

3 L OMS LEAK: ALWAYS BURN RETROGRADE

4 R OMS LEAK: ALWAYS BURN RETROGRADE

5

6 OMS QUANTITIES(%)

7 L OMS OX = 45.9 R OMS OX = 44.9

8 FU = 46.0 FU = 44.9

9

10 SUBTRACT I'CNCT COUNTER FOR CURRENT OMS QUANTITIES

11

12 DELTA V AVAILABLE:

13

14 OMS 379 FPS

15 ARCS (TOTAL ABOVE QTY1) 39 FPS

16 TOTAL IN THE AFT 418 FPS

17

18 ARCS (TOTAL ABOVE QTY2) 69 FPS

19 FRCS (ABOVE QTY 1) 31 FPS

20

21 AFT QTY 1 83 %

22 AFT QTY 2 45 %

23

24

25

26

27

28 THERE ARE NO FAILURE/IMPACT/WORK AROUNDS FOR TODAY.

29

30

31

32

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MSG 097A (15-0969A) - FD10 TRANSFER MESSAGE

Page 1 of 12

1 Good morning Barb, Al & Dave,

2
3 Must feel great to have both racks closed out and rack fronts installed! We are celebrating
4 with you down here. Yesterday you completed about exactly what we predicted. Things
5 always start to slow down a little when return packing begins. You are now approximately
6 79% complete with SH transfers and 76% complete with MDDK transfers.

7
8 Most of the updates to the Transfer List books are due to the reconfiguration of the Fwd
9 Bulkhead items we discussed yesterday.

10
11 For STS, the Transfer List Excel file, FD10_TransferList_STS118.xls, is located on the KFX
12 machine in **C:\OCA-up\transfer**.

13
14 For ISS, the Transfer List Excel file, FD10_TransferList_STS118.xls, is located in **K:\OCA-**
15 **up\transfer**.

16 17 **Q&As:**

18 **Q1: Item 418 (3.0 CTB Leg Assy/LCVG):** We have a very late breaking update for you that
19 is not in our Transfer List updates today. **Please remove a pair of EMU gloves (s/n 6194)**
20 **from this CTB and temp stow.** These gloves are to remain on ISS as a backup pair for
21 Clay. We'll provide an ISS 'Stowage at Undock' location for these gloves later today or
22 tomorrow.

23
24 **Q2: Item 144 (1.0 CTB from FP10):** You told us you'll look more for this CTB. Please let us
25 know when this item is found and transferred. Thanks.

26
27 **Q3: Items 802 (1.0 CTB Placebo Kit/PWR):** Have you begun packing either of the items in
28 this bag? Any problems finding them?

29
30 **A1 : Item 753 (3 empty 0.5 CTBs from STS food):** Based on yesterday's calldown, we
31 deleted item 753 and added 3 new items to SH RTN REALTIME ADDITIONS. The
32 rearrangements due to these new CTBs are updated in the Transfer List today and are
33 summarized below:

34 Item 807 (MS3/MS4 empty 0.5) returns at SF01 (in MESS rack)

35 Item 418.15 (MISC-HDWE) returns at FS01

36 Item 806 (MS1/MS2 empty 0.5) returns at FS02

37 Item 419 (EVA RETS) returns at FS03

38 Item 805 (CDR/PLT empty 0.5) returns at FS05

39 Item 732 (MISSE Clamps) will return at FC13

40
41 **A2: Item 610 (Return Bag 610):** We understand that Clay added a ziplock of Drag-link bolt
42 to this CTB. We've added a note to this item on the TL to annotate this addition. No action
43 for you; just wanted to be sure we were in synch about this because we neglected to
44 discuss it yesterday.

MSG 097A (15-0969A) - FD10 TRANSFER MESSAGE

Page 2 of 12

1 **A3: Msg 102: Foam Unpack from 13A.1 Resupply Bags:** We've teamed up with the ISO
2 team and added a new task to your day. The summary of this task is to open 14 bags that
3 you have already transferred to ISS, remove foam from these bags, and restow the CTBs in
4 the same location where you found them. Further consolidation of items in these bags will
5 be done later by ISS crew. The foam will return in Bags B, H, F and G in the MDDK. Please
6 review Msg 102 (15-0971) and call with questions.

7
8 **A4: Rack Front Tray strap reconfiguration for MISSE return:** Straps on the two bottom SF
9 rack fronts need to be reconfigured to accommodate MISSE PECs for return. Look for more
10 words on this in FD11 Transfer Message.

11 **For today - FD10 Choreography**

12 Middeck

- 13 – Item 804: Retrieve 2 battery packs and temp stow in MA9J
- 14 – Item 641: Pack CD stowage case for return (if Clay's ready to return this)

15
16
17 Spacehab

- 18 – Items 728, 748: Continue packing items on SF rack front
- 19 – Items 414, 425, 425.13, 435, 437, 742: Continue packing items on PF rack front
- 20 – Items 400, 416, 422, 426, 427, 625, 802, 802.1, 802.2: Transfer return bags/items
21 onto aft bulkhead
- 22 – Items 403, 410, 411, 418.15, 419, 634 (if Clay's ready to return this), 725: Transfer
23 return bags/items onto fwd bulkhead

24 25 26 27 **Please update the Middeck Transfer List as follows:**

28
29 In **RETURN** tab:

30 Replace Return Page 2

31 Replace Return Page 3

32 Make Pen and Ink change to Return Page 4:

33 Item 701: Update "Stowage at Undock" to read MDDK FLOOR STBD 1 (Bag C)

34
35 In **MDDK RTN REALTIME ADDITIONS** tab:

36 Replace Return Page 7

37 38 39 **Please update the Spacehab Transfer List as follows:**

40
41 In **SWAP** tab:

42 Make Pen and Ink change to Swap Page 8:

43 Items 726.1 and 726.2: In PROCEDURES/Constraints/ **Comments column,
44 change "FD10" to "FD11"

45
46 In **RETURN** tab:

47 Replace Return Page 9

48 Make Pen and Ink change to following pages:

49 Return Page 10: Item 419: Update "Stowage at Undock" to "FS03"

50 Return Page 19: Item 732 and 732.1: Update "Stowage at Undock" to "FC13"

51 Replace Return Page 24

MSG 097A (15-0969A) - FD10 TRANSFER MESSAGE

Page 3 of 12

1 In **SPACEHAB RTN REALTIME ADDITIONS** tab:

2 Replace Return Page 26

3

4

5 **For tomorrow - FD11 Choreography**

6 Middeck

7 - Item 803: Add CWC to bag H MDDK after water is transferred out of it by ISS crew

8 - Any remaining MDDK transfers

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11 Spacehab

12 - Continue SH return (remaining aft and fwd bulkhead items)

13 - Items 732, 733, 734 (Tracy/Barb): Configure MISSEs for return; temp stow in SH or
14 in node

15 - Items 733, 734: install MISSEs on rack front for rtn.

16 - Items 726.1, 726.2: Transfer old CEVIS Ergometer tower and display cable to SH.

17 - Item 743.1 (Rick/Dave): Add EVA Tools 2 mesh bag to 3.0 CTB for return.

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21 Please call us with questions.

22 - The Transfer Team

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STS-118 Water Ops Cue Card

FLIGHT DAY 10	
CWC Fill #7 - Potable (Blue Label) Pick from CWC's S/N 1080 and 1081 in MF28M Biocide Kit S/N 1001 in ISS NOD1P2 Mesh Bag Mineral Kit S/N 1002 in MF28M <input type="checkbox"/> Minerals and Biocide <input type="checkbox"/> Sample Req'd, Stow sample in MF28M <input type="checkbox"/> Report S/N to MCC <input type="checkbox"/> Blue Label in CWC Window <input type="checkbox"/> Apply Blue decal to CWC end <input type="checkbox"/> Mark CWC S/N on end decal <input type="checkbox"/> Temp Stow Biocide and Mineral Kits in MF28M <input type="checkbox"/> Transfer to NOD1P2 (Water Wall) <input type="checkbox"/> Transfer empty ISS NOD1P2 Mesh Bag to NOD1D4_A1	Condensate Teardown Stow Condensate hardware in MA16D Temp stow full Cond CWC S/N 5037 Will be emptied on FD12 or FD14 Condensate CWC Sample Sample Condensate CWC S/N 5037 Use Sampling Adapter for Technical CWCs (Green) Fill out label for Condensate sample Stow sample in MF28M
FLIGHT DAY 11	
CWC Fill #8 - Potable (Blue Label) Pick remaining CWC S/N 1080 or 1081 in MF28M Biocide Kit S/N 1001 and Mineral Kit S/N 1002 in MF28M <input type="checkbox"/> Minerals and Biocide <input type="checkbox"/> Sample Req'd, Stow sample in MF28M <input type="checkbox"/> Report S/N to MCC <input type="checkbox"/> Blue Label in CWC Window <input type="checkbox"/> Apply Blue decal to CWC end <input type="checkbox"/> Mark CWC S/N on end decal <input type="checkbox"/> Temp Stow Biocide and Mineral Kits in MF28M <input type="checkbox"/> Transfer to NOD1P2 (Water Wall)	
FLIGHT DAY 12	
Water Dump Waste and Supply Water Tanks 1 PWR S/N 2002 1 Condensate CWC S/N 5037 Details for this dump will be provided in the FD12 Execute Package	OGS PWR Fill #2 (Purple Label) PWR S/N 2002 temp stowed on Middeck following FD12 Water Dump <input type="checkbox"/> Verify Purple Label in PWR window <input type="checkbox"/> Transfer to ISS A/L1D1_B2

<p>Water Dump Notes:</p> <p>Contingency Cross Tie (WCS):</p> <ul style="list-style-type: none"> - Potable QD only used for PWR Dump - Waste QD used for CWC Dump <p>Hoses:</p> <ul style="list-style-type: none"> - Use Y-Y Hose from CHCK (Window Shade Bag) and WWD Filter from BOB Locker (MF28E) for CWC Overboard Dump - Use B-B Hose with R-Y Adapter from CHCK (Window Shade Bag) from PWR Dump-Supply Line

<p>PWR Fill Notes:</p> <ul style="list-style-type: none"> - Do not pull drink water from Galley during PWR Fill. - Do not detach PWR (EMU H2O Recharge Bag) QD restraint during PWR operations. - Do not overfill as the PWR could leak.
--

Stowage
Potable CWC's available in MF28M
<input type="checkbox"/> 1080 <input type="checkbox"/> 1081
Condensate CWC's available on Shuttle/SHAB
<input type="checkbox"/> 5037 (Launched in SHAB FC11)
PWR's available on ISS for OGS
<input type="checkbox"/> 2002

Water Kits:	Launch
Biocide Kit S/N 1001	NOD1P2 Mesh Bag
Mineral Kit S/N 1002	STBD Floor 1 Bag C
Sample/Purge Kit S/N 1005	SHAB FC11

COLOR LEGEND

Brown		CWC Condensate Water
Blue		CWC Potable Water
Purple		PWR Water for US OGS

15-0972 (MSG 103) AUAI-1P TO P1 BSP CONNECTOR RECONFIGURATION

Page 1 of 2 pages

START_IMS

OBJECTIVE:

Swap wire harness W3324 with wire harness W3348 at the AUAI-1P audio connection (LAB1D2, J15). This routes S-band String 2 audio from the new BSP location on P1 Truss to AUAI-1P.

LOCATION:

Installed: LAB1D2

CREW:

Two

DURATION:

15 minutes

TOOLS:

DCS 760 Camera

1. SAFING

√**MCC-H** to verify that LAD22BA RPC 04 Open and Close Command Inhibited.

2. ACCESSING

- LAB1D2
- 2.1 Relocate stowage as necessary to gain access to base of LAB1D2 (Avionics Rack 3).
 - 2.2 Open Rack Utility Interface Panel (UIP) Closeout, quarter turn fasteners (two).

3. DISCONNECTION

W3324 P1 ←|→ J15
Refer to Figure 1.

15-0972 (MSG 103) AUAI-1P TO P1 BSP CONNECTOR RECONFIGURATION

Page 2 of 2 pages

4. RECONNECTION

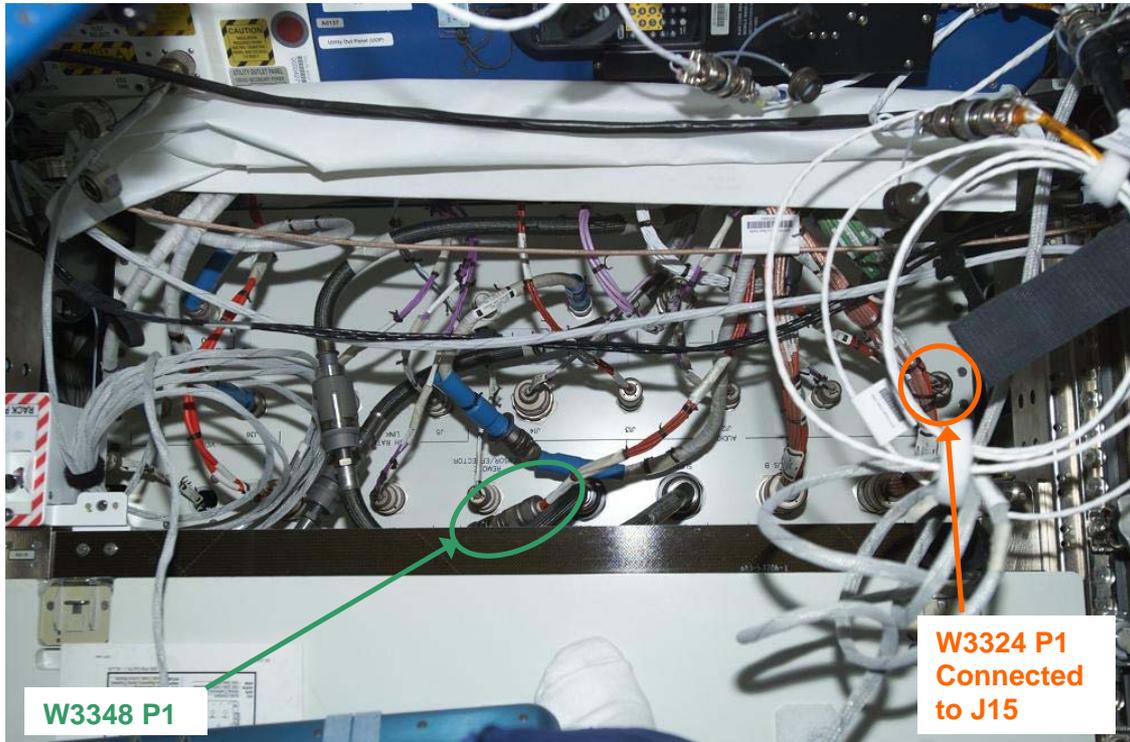


Figure 1.- LAB1D2 Rack UIP

4.1 Remove protective cap from W3348 P1 and install on W3324 P1.

4.2 W3348 P1 →|← J15
Refer to Figure 1.

5. CLOSEOUT

5.1 Photo-document wire harness W3348 P1 mated with J15 of LAB1D2 UIP (DCS 760 Camera).

5.2 Close Rack UIP Closeout, quarter turn fasteners (two).

5.3 Notify **MCC-H** of task completion.

16 AUG 07

CMG ADJUSTABLE SHIM INSTALL (00:45)

IV			EV2 (FF)		EV3 (FF)																
IV: √ESP2 FRAM Site #5 Inhibits in place			<ol style="list-style-type: none"> 1. Translate to ESP2 nadir aft (site #5) 2. Open CMG Thermal Shroud 3. Retrieve Lg/Sm RET from CMG HR 4. Notify IV of stowed RET location for serial # tracking purposes 5. PGT[A3, CCW1, 30.5]-6Ext-7/16: Drive Adj shim bolt ~1/2 turn until torque stall or contact (no pattern). <div style="display: flex; justify-content: space-around; width: 100%;"> <input type="checkbox"/>3a <input type="checkbox"/>3b </div> 		<ol style="list-style-type: none"> 1. Translate to ESP2 nadir aft (site #5) 2. Open CMG Thermal Shroud 3. PGT[A3, CCW1, 30.5]-6Ext-7/16: Drive Adj shim bolt ~1/2 turn until torque stall or contact (no pattern). <div style="display: flex; justify-content: space-around; width: 100%;"> <input type="checkbox"/>6a <input type="checkbox"/>6b </div> 																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">ADJ Shim Bolt</th> <th style="width: 20%;">Turns</th> <th style="width: 20%;">Torque</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">3a</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">3b</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">6a</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">6b</td> <td></td> <td></td> </tr> </tbody> </table>			ADJ Shim Bolt	Turns	Torque	3a			3b			6a			6b			<ol style="list-style-type: none"> 6. Verify shim contact if possible <div style="display: flex; justify-content: space-around; width: 100%;"> <input type="checkbox"/>3a <input type="checkbox"/>3b </div> 7. Install CMG MLI 8. Give IV GO for ESP-2 powerup 9. Inspect gloves; status MCC on RTV and Vectran state 		<ol style="list-style-type: none"> 4. Verify shim contact if possible <div style="display: flex; justify-content: space-around; width: 100%;"> <input type="checkbox"/>6a <input type="checkbox"/>6b </div> 5. Install CMG MLI 6. Give IV GO for ESP-2 powerup 7. Inspect gloves; status MCC on RTV and Vectran state 	
ADJ Shim Bolt	Turns	Torque																			
3a																					
3b																					
6a																					
6b																					
IV: Give MCC-H Go to powerup			← Report torque/turns		← Report torque/turns																

CMG ADJUSTABLE SHIM INSTALL TASK DATA SHEET

Tools:

EV1 (FF)	EV2 (SSRMS)
PGT	PGT
7/16 (wobble) socket – 6ext	7/16 (wobble) socket – 6 ext

EVA Fasteners:

Fastener Name	Head Size	Qty	Install Torque (ft-lb)	Release Torque (ft-lb)	Failure Torque (ft-lb)	Turns
CMG Shims (adjustable)	7/16	4	4.8 (CCW)	N/A	6.8	2-5

EVA Connectors: N/A

Foot Restraints: N/A

Warnings:

None

Cautions:

1. Avoid inadvertent contact with CMG
2. CMG may have oily residue around the Torque Module Assembly, avoid contact (may cause damage to other ORUs through cross-contamination)

Notes:

1. ESP2 FRAM site 5 inhibits also take out power for site 2 (currently empty)
2. We are go to increase PGT setting to A5 if A4 no joy. If A5 no joy and no contact, 1E will have to fix.

CMG-3 Inhibits:

ESP-2 FRAM Site #5 (prior to shroud access)	
MCC-H	1. RPCM N1RS2_B RPC 7 – Open, Close Cmd Inhibit
	2. RPCM S04B_F RPC 11 – Open, Close Cmd Inhibit

