

MSG 125B - FD12 FLIGHT PLAN REVISION

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MSG INDEX

<u>MSG NO.</u>	<u>TITLE</u>
125	FD12 Flight Plan Revision
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129	Updated LiOH Cue Card
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132	Middeck Return Updates

1. For today's cryo config, H2 Tanks 2 and 4 will be active with dual heaters. O2 Tank 1 will be active with dual heaters and Tank 4 will be active with a single heater.

R1 CRYO O2 MANF VLV TK1 - OP (tb-OP)
H2 MANF VLV TK2 - OP (tb-OP)

A11 CRYO TK4 HTRS O2 A - AUTO

A15 CRYO TK5 HTRS O2 A – OFF

2. Make the following changes to HEATER RECONFIG - CONFIG B (ORB OPS, EPS) p. 6-5, to be performed at MET 10/15:10:

Replace ML86B:C actions with the following steps:

ML86B:C cb MNA EXT ARLK HTR
 LINE ZN 1,2 (two) - cl
 STRUC Z1/2/3 - op
 cb MNB EXT ARLK HTR
 LINE ZN 1,2 (two) - op
 STRUC Z1/2/3 - cl

 cb MNB EXT ARLK HTR VEST Z1/2/3 – cl

MSG 125B - FD12 FLIGHT PLAN REVISION

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3. The table below summarizes the Shuttle and ISS exercise constraints for today. These constraints are also noted in your timelines for your reference.

Activity	Exercise Constraints	
	Shuttle	ISS
UNDOCK	No exercise during undocking operations.	No exercise during undocking operations.

4. MSG 131 contains the SPACEHAB viewport violations for today. Please post that message next to the viewport. There are no callouts in the FLIGHT PLAN referencing those times.

5. Included in today's execute package is a new LiOH cue card, which rearranges the can use such that the STS-114 LiOH cans are used as late in the mission as possible.

For this morning's changeout, you will be removing the two STS-114 cans that were installed last night, so please wear goggles and mask to protect yourself from the LiOH dust.

In addition, would you characterize the level of LiOH dust associated with the STS-121 can you installed on FD10 as more or less than the STS-114 cans and more or less than the STS-118 cans?

6. REPLACE PAGES 2-40, 42, 44 and 3-126 THROUGH 3-135.

GMT 08/18/07 (230)

$\beta = -3.28$

MET Day 010

		08/19															
		23	01	02	03	04	05	06	07	08	09	10	11	12			
		010/00															
S T S - 1 1 8	FD11	PRE SLEEP	PMG A/G	PRE SLEEP	SLEEP										FD12	POST SLEEP	FGPH ERWO SPRA ABUT PIT
	CDR KELLY	PRE SLEEP	PMG A/G	PRE SLEEP	SLEEP										POST SLEEP	OP PCU*	P SLP
	PLT HOBAUGH	PRE SLEEP			SLEEP										POST SLEEP		
	MS1 CALDWELL	PRE SLEEP			SLEEP										POST SLEEP		
	MS2 MASTRACCHIO	PRE SLEEP			SLEEP										POST SLEEP		
	MS3 WILLIAMS	PRE SLEEP			SLEEP										POST SLEEP		
	MS4 MORGAN	PRE SLEEP - SHAB			SLEEP										POST SLEEP SHAB		
MS5 DREW	PRE SLEEP			SLEEP										POST SLEEP			
E X P 1 5	ISS CDR YURCHIKHIN	PRE SLEEP			SLEEP (8.5)										POST SLEEP	PREP WORK	
	FE-1 KOTOV	PRE SLEEP			SLEEP (8.5)										POST SLEEP	PREP WORK	
	FE-2 ANDERSON	PRE SLEEP	PFC	PRE SLEEP	SLEEP (8.5)										POST SLEEP	PW RO ER PK	
S T S	DAY/NIGHT ORBIT	[ORBIT BAR]															
	TDRS W -171	[TDRS BAR]															
	TDRS E -46	[TDRS BAR]															
	TDRS Z -275	[TDRS BAR]															
ORB ATT	BIAS -XLV -ZVV												*HTR ACT	*OFF			
NOTES																	

NO EXER DURING UNDK

08/19/07 01:59:15

REPLANNED

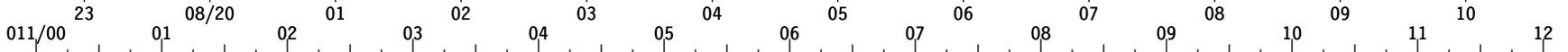
GMT 08/19/07 (231)

β = -5.60

MET Day 010

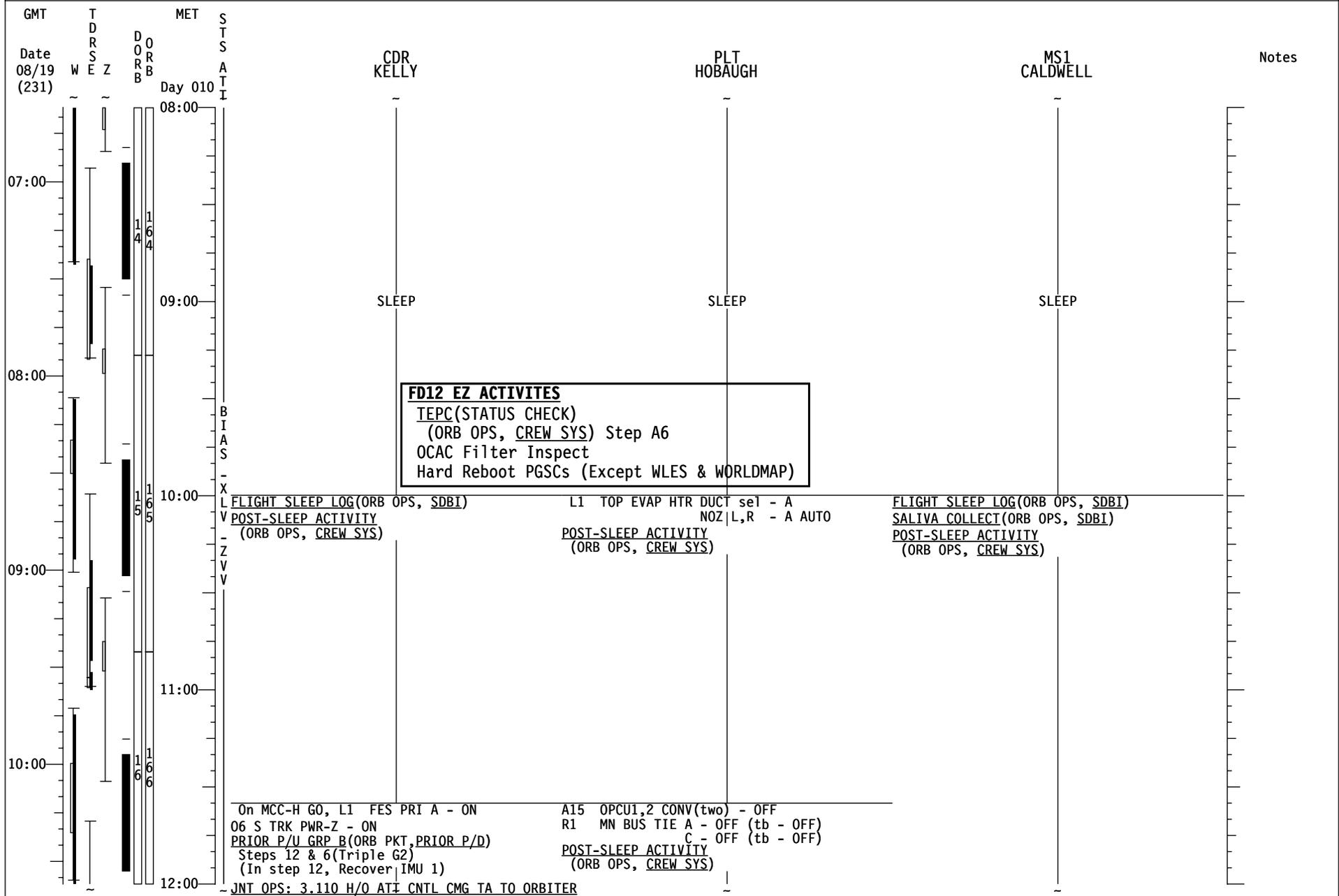
		11	12	13	14	15	16	17	18	19	20	21	22	23	22	011/00										
STS-118	FD12	POST SLEEP	UNDOCK OPS	SEP1	SEP2	GP R PR B N	PCS	PS	RCNFG	MS NT V B R D	GPS #	FLTS	NOSE CAP SURVEY	FLTS	COM M 1	EXERCISE	AT MOC	M C N O V R M	I M U	MEAL	-ZLV -XVV	OFF DUTY	PRE SLEEP			
	PLT HOBAUGH	-XLV +ZVV	UNDOCK OPS			GP R PR B N	PCS	O I U *	SD SE O A R C T				OBSS STBD SURVEY	M N O V R E		EXERCISE				MEAL		OFF DUTY	PRE SLEEP			
	MS1 CALDWELL	POST SLEEP	UNDOCK OPS										OBSS UNBERTH		OBSS STBD SURVEY		NOSE CAP SURVEY		EXERCISE		OBSS BERTH	R P M W S R D N	MEAL	OFF DUTY	PRE SLEEP	
	MS2 MASTRACCHIO	POST SLEEP	UNDOCK OPS										OBSS UNBERTH		OBSS STBD SURVEY		EXERCISE		OBSS PORT SURVEY	C D M *	R P M W S R D N	MEAL	OFF DUTY	PRE SLEEP	PFC OCA	
	MS3 WILLIAMS	POST SLEEP	UNDOCK OPS			POST UNDK PGSC CNFG			EXERCISE		EVA TOOL STOW		POST ISS EV ENT PREP		OBSS PORT SURVEY				C D B A T I M L Y			MEAL	OFF DUTY	PRE SLEEP		
	MS4 MORGAN	*P/TV03 S/U	P/TV03	UNDOCK OPS					XFER CLEAN UP		EXERCISE		NOSE CAP SURVEY		OBSS PORT SURVEY		OBSS BERTH					MEAL	OFF DUTY	PRE SLP SHAB	PFC OCA	PRE SLP SHAB
	MS5 DREW	POST SLEEP	UNDOCK OPS						XFER CLEAN UP		P/TV03*	E I M N U S T I L	EVA TOOL STOW	POST ISS EV ENT PREP		EXERCISE		MEAL		LDRI DNK		OFF DUTY		PRE SLEEP		
EXP 15	ISS CDR YURCHIKHIN	DPC		U V N I D D K E C		PMA2-DEPRESS		EXERCISE TVIS		MIDDAY-MEAL		N1-SD2-CLEAN				EXERCISE RED						IMS EDIT		PRE SLEEP		
	FE-1 KOTOV	DPC		PMA2 DPRT CNFG			D33-2	CMO	PHS D/E			MIDDAY-MEAL	CF O A C Y M P Φ B M N T	COX MNT		EXERCISE TVIS		EXERCISE VELO+RED						PRE SLEEP		
	FE-2 ANDERSON	DPC	P W R O R E P K			B S P T S O M W U	PMC	V T R 1	V T R 2	PCS	PHS SUB	EXERCISE RED	MIDDAY-MEAL	EMU H2O RCHRG	PMA2 LK CH	PPC	PMA2 LK CH	GLOVE PHOTO	J R N L	S & L E E P	S D L L E E P		EXERCISE TVIS	PRE SLEEP		
STS	DAY/NIGHT ORBIT	166		167		168		169		170		171		172		173		174								
	TDRS	W -171	E -46	Z -275																						
	ORB ATT	-XLV +ZVV	UNDOCK/SEP		STBD		NOSE		PORT		COMM		-ZLV -XVV													
NOTES	*POST SLEEP SHAB *UNDOCK (10/13:20) *REG RCNFG #ANTENNA DATA GATHER *COMPLETE *CONFIG &H/W DOWNLOAD SETUP *DISABLE *DEACT *FILTER CK *DEACT & C/L CAMR STOW																									

GMT 08/19/07 (231)
 β = -7.92
 MET Day 011

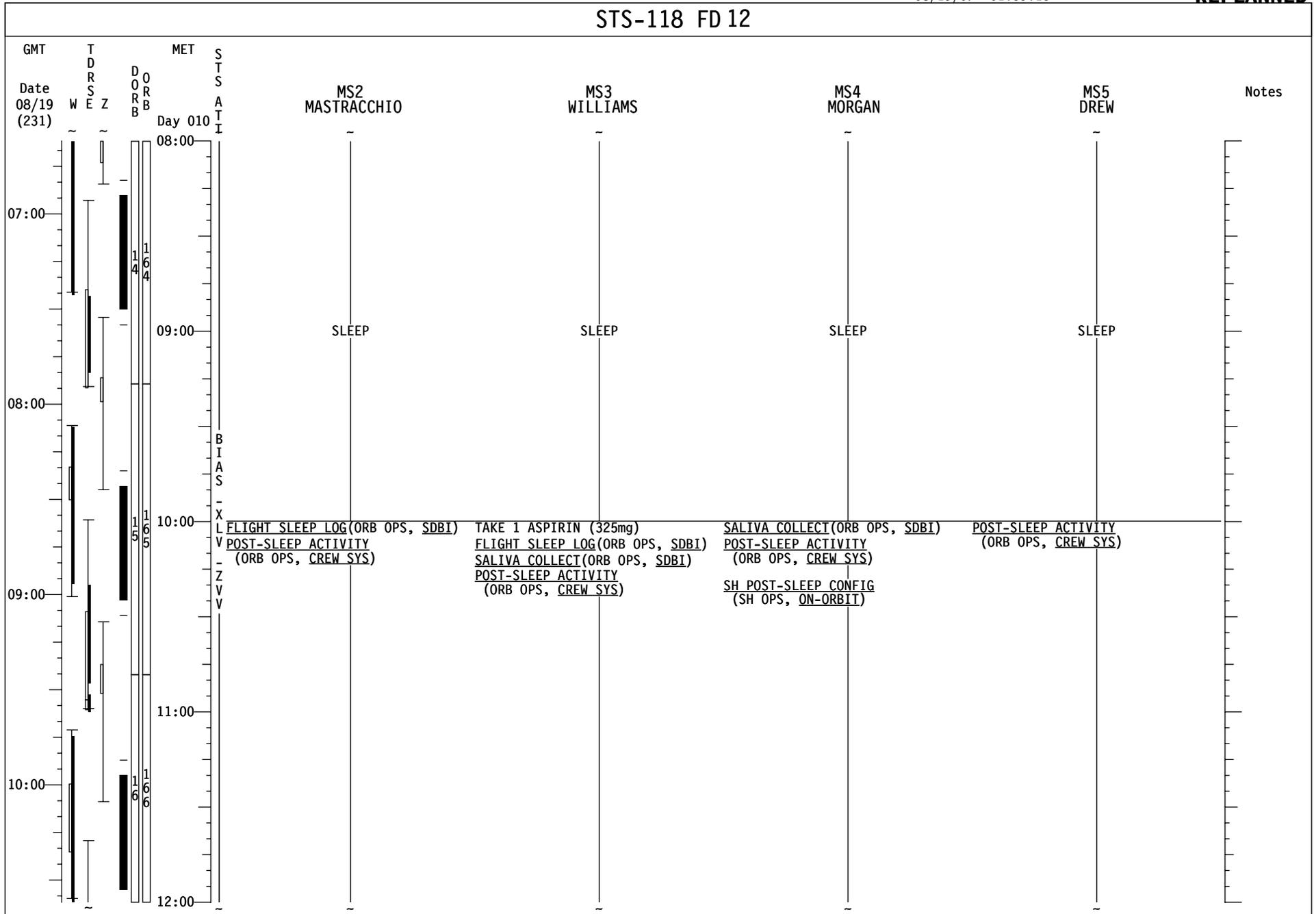


S T S - 1 1 8	FD12	CDR KELLY	PRE SLEEP	PMCPFC A/GOCA	PRE SLEEP	SLEEP	FD13	POST SLEEP	POST SLEEP		
	PLT HOBAUGH	PRE SLEEP			SLEEP	LOG	POST SLEEP				
	MS1 CALDWELL	PRE SLEEP			SLEEP	SLVAG	POST SLEEP				
	MS2 MASTRACCHIO	PRE SLEEP			SLEEP	LOG	POST SLEEP				
	MS3 WILLIAMS	PRE SLEEP	PFC OCA	PRE SLEEP	PRE SLEEP	SLVAG	POST SLEEP				
	MS4 MORGAN	PRE SLP SHAB			SLEEP	SLVA	POST SLEEP - SHAB				
	MS5 DREW	PRE SLEEP			SLEEP		POST SLEEP				
S T S	DAY/NIGHT	[Timeline with alternating black and white bars]									
	ORBIT	174	175	176	177	178	179	180	181	182	
	TDRS	W -171	E -46	Z -275	[Timeline with horizontal bars]						
	ORB ATT	-ZLV -XVV									
NOTES	*ENABLE *HTR ACT										

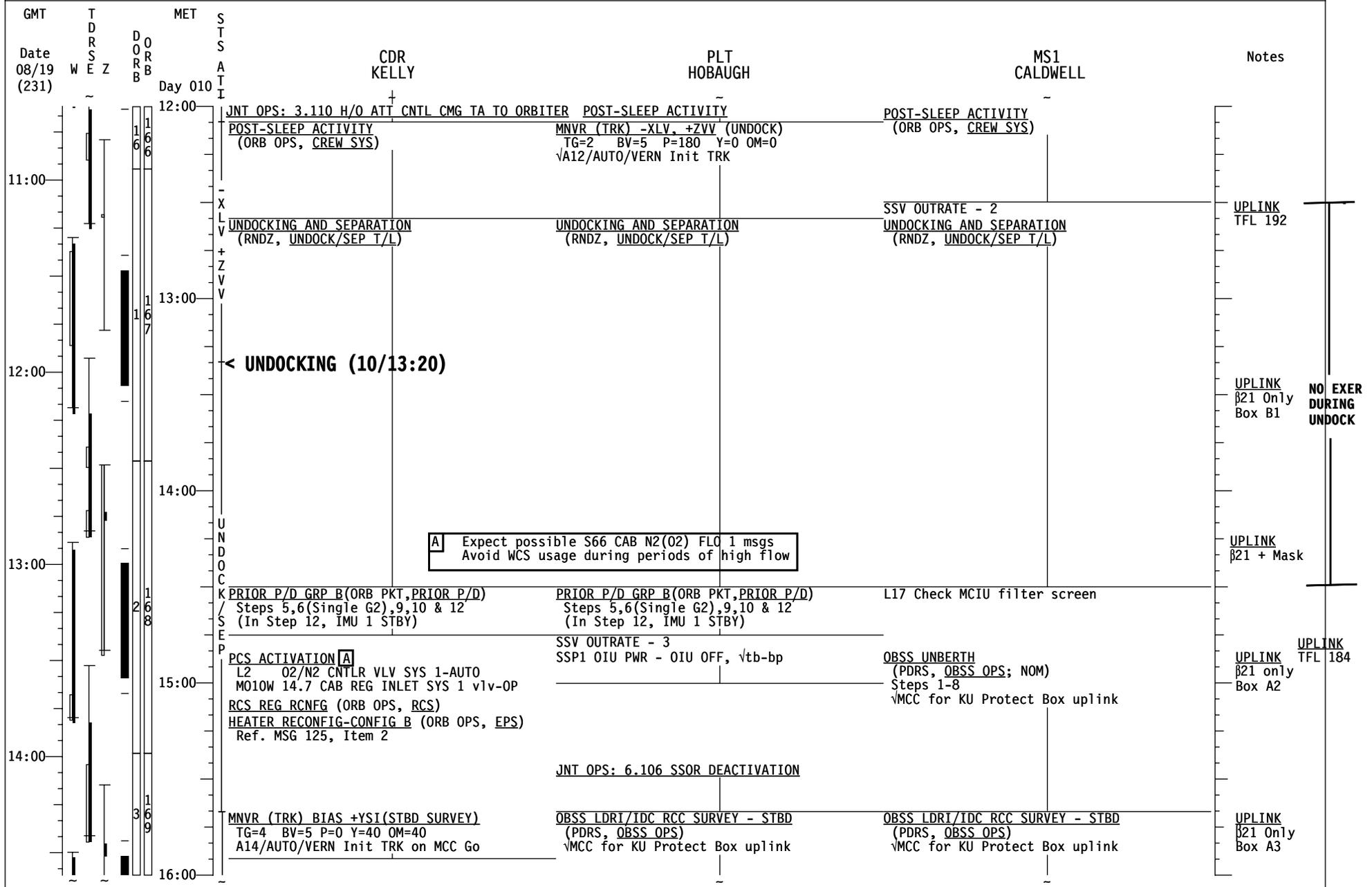
STS-118 FD12



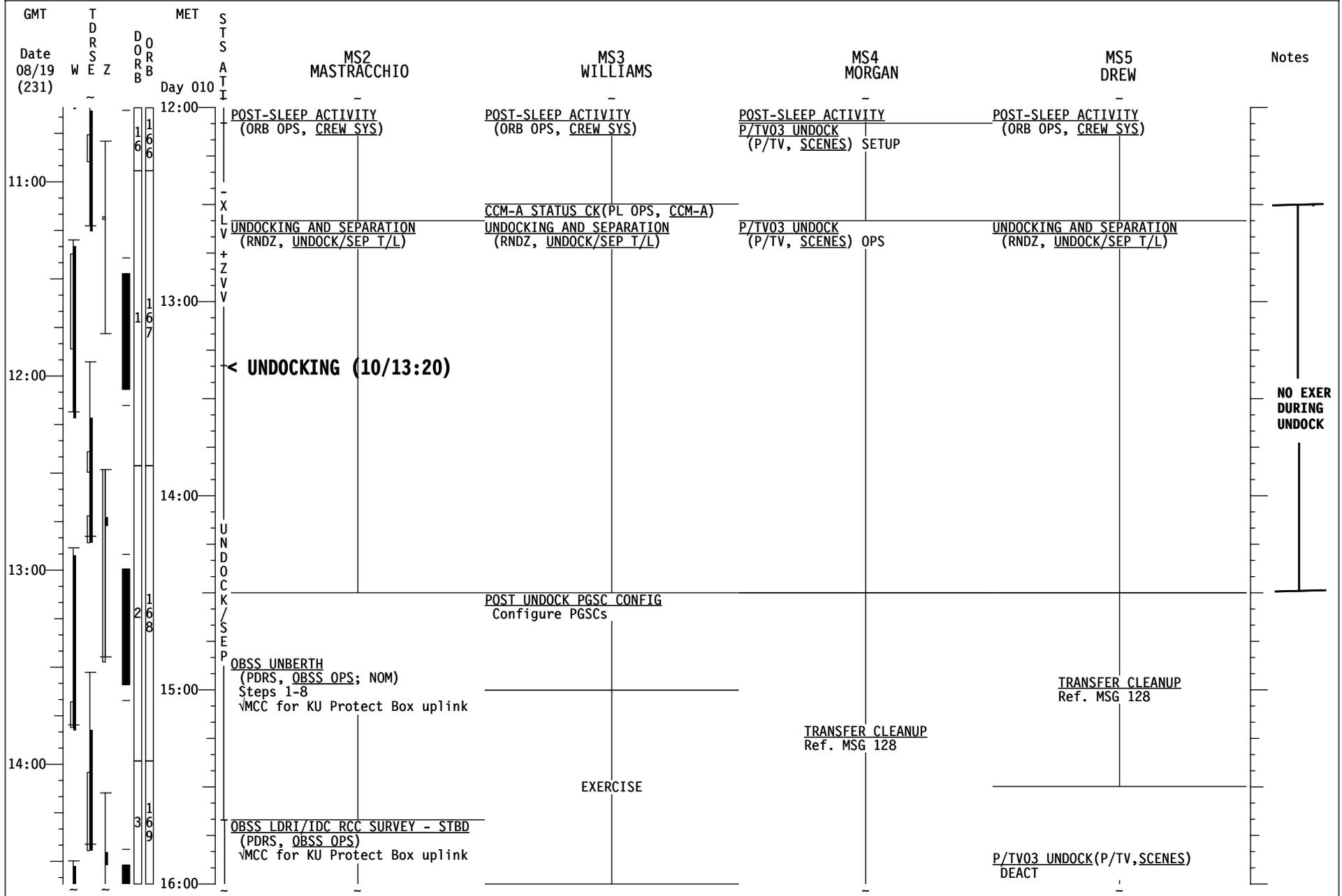
STS-118 FD 12



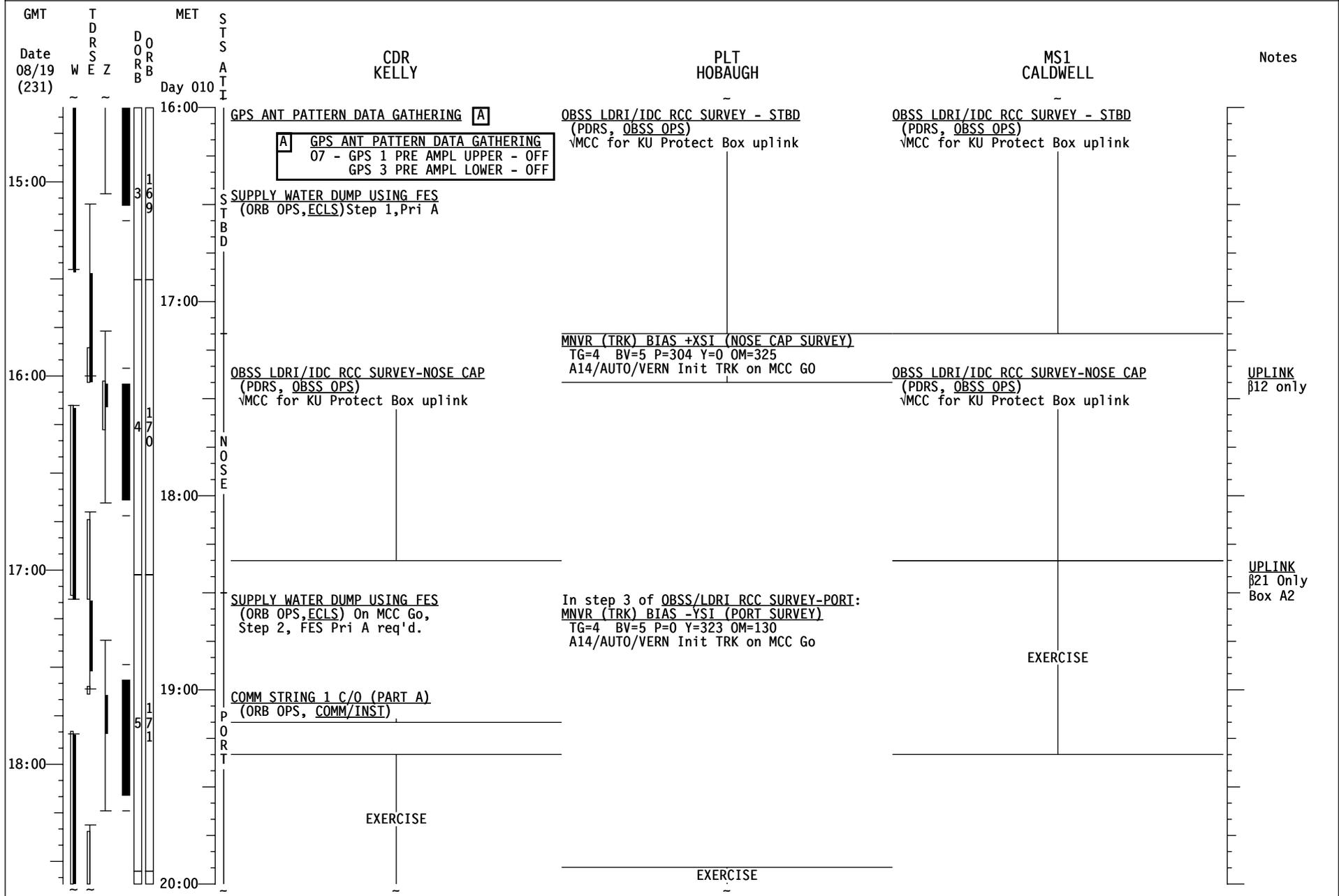
STS-118 FD 12



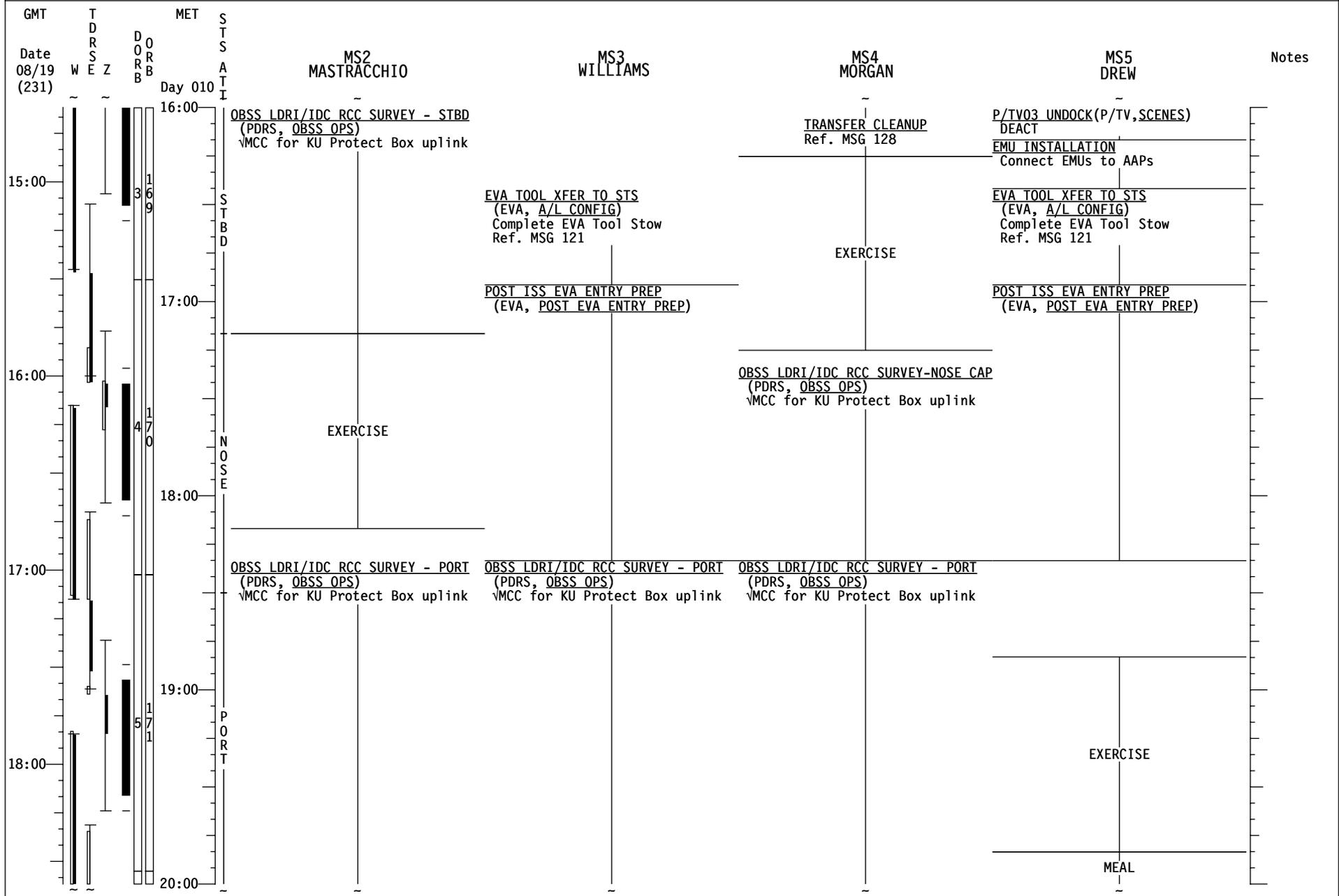
STS-118 FD12



STS-118 FD 12



STS-118 FD 12



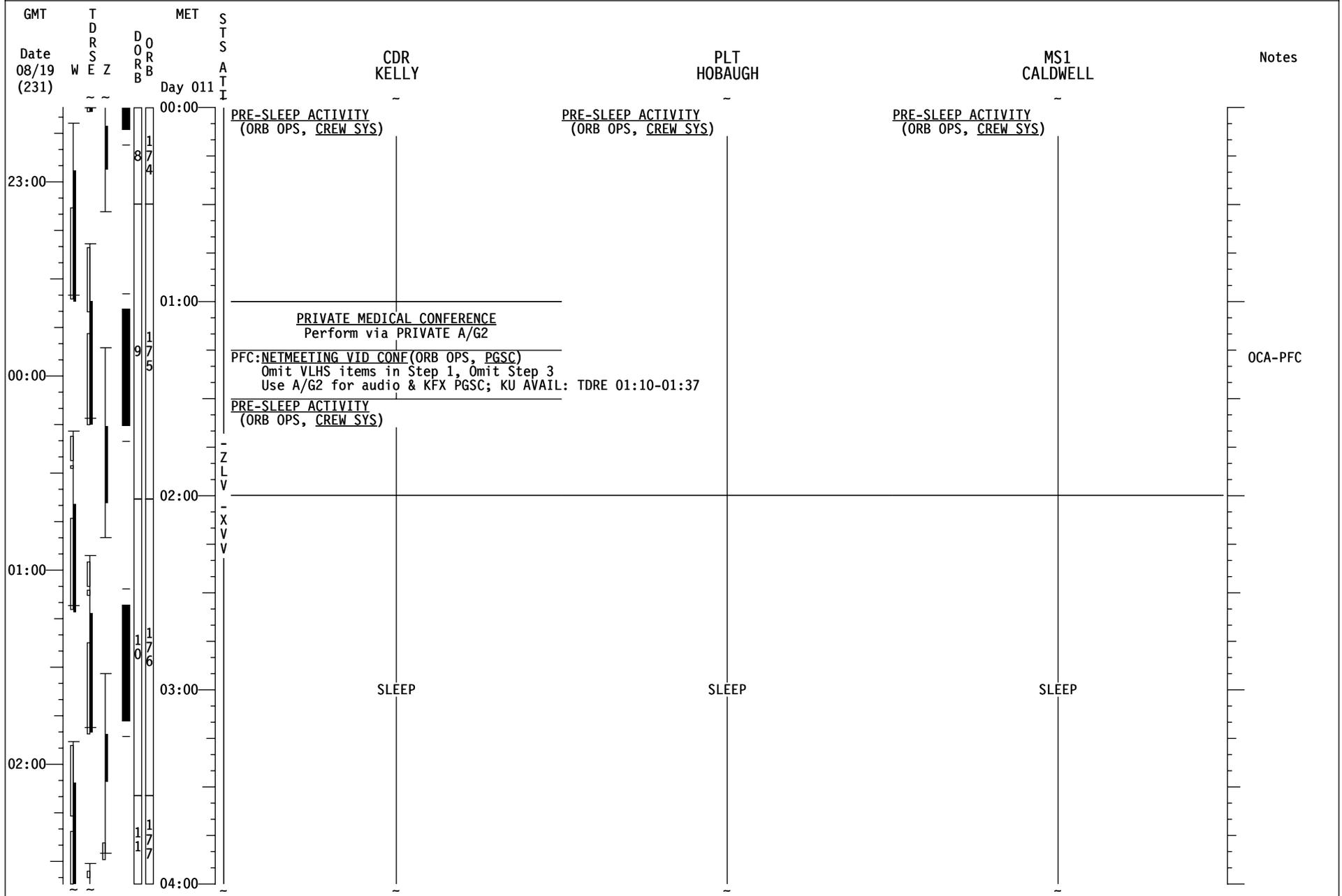
STS-118 FD 12

GMT	T D R S E Z	MET	S T S A T I	CDR KELLY	PLT HOBAUGH	MS1 CALDWELL	Notes
Date 08/19 (231)	W E Z	Day 010	P O R T				
19:00		20:00		EXERCISE			OBSS BERTH (PDRS, OBSS OPS) Record Camera D View
				CCM-A STATUS CK (PL OPS, CCM-A)	EXERCISE		
				MNVR LDRI DOWNLINK R=129 P=219 Y=8 A1/AUTO/VERN Init MNVR			RMS PWRDN (PDRS, RMS PWRDN) MCC for KU Protect Box uplink Stow MPMS PORT RMS HTR B-AUTO, A-OFF
		21:00		IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)			UPLINK β21 + Mask
		20:00	C O M M	MEAL	MEAL	MEAL	
		22:00		MNVR (TRK) -ZLV, -XVV TG=2 BV=3 OM=0 A1/AUTO/VERN Init TRK			
		21:00		OFF DUTY	OFF DUTY	OFF DUTY	
		23:00	Z L V X V V	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
22:00		00:00					

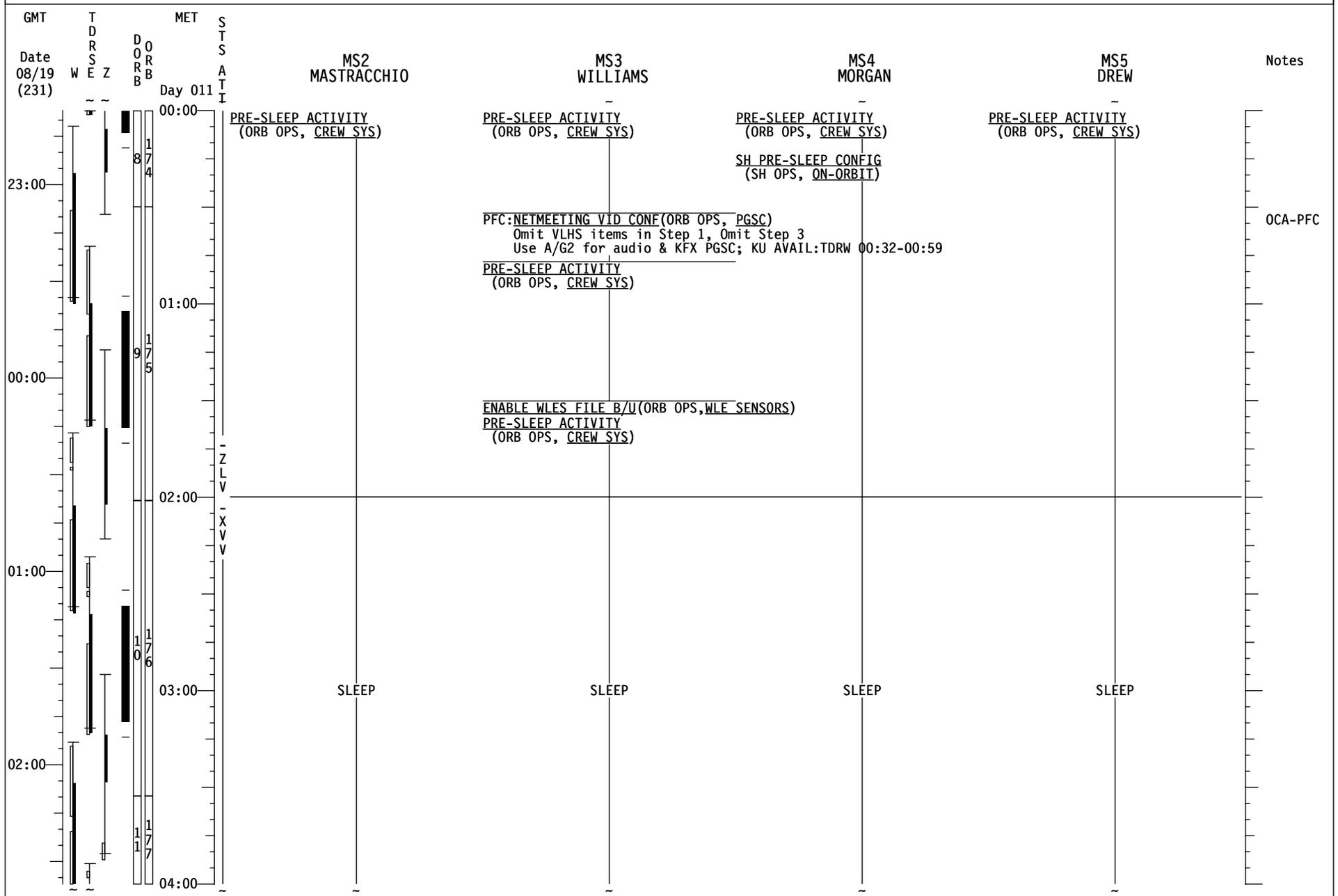
STS-118 FD 12

GMT	TDRS E Z	MET	STS A T I	MS2 MASTRACCHIO	MS3 WILLIAMS	MS4 MORGAN	MS5 DREW	Notes
Date 08/19 (231)	W	Day 010	PORT					
19:00				OBSS LDRI/IDC RCC SURVEY - PORT CDM BATTERY OPS Ref. MSG 130	OBSS LDRI/IDC RCC SURVEY - PORT	OBSS LDRI/IDC RCC SURVEY - PORT OBSS BERTH (PDRS, OBSS OPS) Record Camera D View	MEAL	
20:00			COMM	RMS PWRDN (PDRS, RMS PWRDN) VMCC for KU Protect Box uplink Stow MPMS PORT RMS HTR B-AUTO, A-OFF	CBTM STATUS CHECK (PL OPS, CBTM)			
21:00				MEAL	MEAL	MEAL	PLAYBACK (DIGITAL) (P/TV, CUE CARD) LDRI OBSS SURVEYS KU TDRW (20:54-21:49)	
22:00				OFF DUTY	OFF DUTY	OFF DUTY	OFF DUTY	
23:00			ZLV	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	DISABLE WLES FILE B/U(ORB OPS,WLE SENSORS) PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS) SH PRE-SLEEP CONFIG (SH OPS, ON-ORBIT)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
22:00			XVV	PFC:NETMEETING VID CONF(ORB OPS, PGSC) Omit VLHS items in Step 1, Omit Step 3 Use A/G2 for audio & KFX PGSC KU AVAIL: TDRE 10/23:42-11/00:01		PFC:NETMEETING VID CONF(ORB OPS, PGSC) Omit VLHS items in Step 1, Omit Step 3 Use A/G2 for audio & KFX PGSC KU AVAIL: TDRE 23:04-23:42		OCA-PFC
00:00						PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS) SH PRE-SLEEP CONFIG (SH OPS, ON-ORBIT)		OCA-PFC

STS-118 FD 12



STS-118 FD12



MSG 126 - FD12 MISSION SUMMARY

1
2 Good Morning Endeavour!

3
4 Well, the hatch is closed with everything and everyone on the side they should be on!

5
6 Yesterday you completed a spectacular EVA and right now there is nothing more to be done
7 outside!

8
9 We suggest you undock, inspect the shuttle and think about heading on home!

10
11 Have a great day!!!!

12
13
14
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16
17
18 YOUR CURRENT ORBIT IS: 185 x 184 NM

19
20 NOTAMS:

21
22 EDW – EDWARDS: RWY 15/33 ELS ONLY. RWY 18L NOT USABLE

23 NOR – NORTHRUP: ALL RWYS GREEN.

24 YHZ – HALIFAX: RWY 05/23 CLOSED 20 AUG 1000Z UFN.

25 YQX – GANDER: RWY 31 THLD DISPLACED 1,542' UNTIL 20 AUG 1445Z.

26 ILM – WILMINGTON: RWY 31 THLD DISPLACED 1,542' 0915Z-1445Z DAILY UNTIL 20
27 AUG.

28 ZZA – ZARAGOZA: FIRST 600 METERS OF RWY 30L NOT AVAILABLE 0600Z-1800Z
29 DAILY.

30 MRN – MORON: CLOSED TO DOD OPERATIONS 1900Z TO 0259Z DAILY.

31 NKT – CHERRY POINT: RWY 14R/32L CLOSED 13 AUG TO 16 SEP.

32 WAK – WAKE ISLAND: CLOSED DUE TO RECONSTRUCTION.

33 YYR – GOOSE BAY: RWY 08/26 CLOSED. 16/34 AVAILABLE.

34 IKF – KEFLAVIK: NO AGREEMENT FOR USE.

35 AWG – RIO GALLEGOS: NO AGREEMENT FOR USE.

36
37 NEXT 2 PLS OPPORTUNITIES:

38
39 NOR17 ORB 172 – 10/20:46 (SCT100 230/5P10)

40 EDW22 ORB 188 – 11/21:09 (SKC 230/15P25)

41
42 OMS TANK FAIL CAPABILITY:

43
44 L OMS FAIL: NO

45 R OMS FAIL: NO

46
47 LEAKING OMS PRPLT BURN:

48
49 L OMS LEAK: ALWAYS BURN RETROGRADE

50 R OMS LEAK: ALWAYS BURN RETROGRADE

MSG 126 - FD12 MISSION SUMMARY

1 OMS QUANTITIES(%)

2 L OMS OX = 45.9 R OMS OX = 44.9

3 FU = 46.0 FU = 44.9

4

5 SUBTRACT I'CNCT COUNTER FOR CURRENT OMS QUANTITIES

6

7 DELTA V AVAILABLE:

8

9 OMS 379 FPS

10 ARCS (TOTAL ABOVE QTY1) 37 FPS

11 TOTAL IN THE AFT 416 FPS

12

13 ARCS (TOTAL ABOVE QTY2) 67 FPS

14 FRCS (ABOVE QTY 1) 23 FPS

15

16 AFT QTY 1 80 %

17 AFT QTY 2 42 %

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

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1 FD11 MMT Summary

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3 The FD11 MMT met to review mission progress along with the contingency planning
4 associated with Hurricane Dean. The MMT began just as the EVA 4 crew had
5 ingressed the airlock after another successful EVA. The team appreciates the
6 exceptional work that the crew accomplished during the docked operations including
7 getting the hatch closed on time after EVA 4. All MMT members were polled and all
8 were GO for undocking on FD 12 per the one day early landing plan.

9

10 **Cryo Margins:** The cryo margins above the new 13+2 mission duration are 5 days
11 at docked SSPTS power levels and 2 days at undocked non-SSPTS power levels.
12 At this time the limiting consumable for mission duration continues to be LiOH with
13 EOM+3 capability.

14

15 **Transfer Ops:** At the MMT transfer operations were reported as 80% of the middeck
16 and 92% of the Spacehab transfers complete. When you read the message,
17 transfer will obviously be 100% complete.

18

19 **EVA 4 Summary:** EVA 4 was accomplished successfully with a PET of 5:02. All of
20 the planned objectives for the shortened EVA were accomplished. There were no
21 issues reported with the additional glove inspections that were performed during the
22 EVA.

23

24 **Late Inspection Options:** The nominal late inspection procedure after tomorrow's
25 undock will be accomplished. The flyaround will not be performed due to the
26 compressed timeline caused by the deletion of the day between EVA 4 and
27 undocking. Plans are in place to have the complete late inspection imagery and
28 RCC team support from JSC in their normal facility, which contains customized
29 hardware and software to process the late inspection data. The late inspection
30 team reviewed the timeline and are targeting to clear the orbiter prior to the end of
31 crew day on FD13.

32

33 **MER Evacuation Plans:** A satellite Mission Evaluation Room (MER) will be
34 configured at the Kennedy Space Center. Only critical personnel will support the
35 remainder of the mission at Kennedy Space Center with the exception of a few key
36 positions that are required to remain with the Mission Operations team for entry.
37 The most notable exception is the MER GPS team, who will support the first 3-string
38 GPS entry with the MOD Entry Flight Control Team per the pre-mission training.

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1 **JSC Hurricane Dean Contingency Plans:** Based on the current storm predictions,
2 the Johnson Space Center is expected to remain open at least through close-of-
3 business on Monday afternoon (FD13). If the center closes Monday afternoon, only
4 critical personnel will be allowed to gain access to the center. Two flight control
5 teams, including the Entry Team and the Orbit 2 team supporting 12 hour shifts, will
6 continue operations through the remainder of the mission. Plans are being
7 formulated to have aircraft ready to transport any critical personnel to a TBD location
8 after the completion of the mission, if Hurricane Dean is still threatening the Johnson
9 Space Center.

10
11 In a similar hurricane threat scenario, if any waive-off is required after FD14, the
12 Emergency MCC plan can be invoked to move both the Planning team and the Entry
13 flight control team to Kennedy Space Center. The team has practiced and executed
14 a deorbit prep simulation from the KSC LCC, which is the Emergency MCC facility,
15 in the fall 2003 timeframe. The STS-118 Entry Flight Director and several of the
16 Entry Team members traveled to KSC and were on the entry team for this 2003
17 exercise. The most significant loss in capability for Emergency MCC is the lack of
18 high speed tracking data to monitor Three -String GPS.

19
20 **Weather Forecast:** The team received the latest weather forecast for EOM, which
21 is shown in Figure 1 below. There is a good chance of landing at either KSC or
22 EDW based on this preliminary forecast. As you know all three sites will be
23 activated for EOM and the specific landing strategy will be based on the Hurricane
24 Dean forecast and the confidence in the predicted storm track. The latest prediction
25 for Hurricane Dean is included as Figure 2. After the FD 11 MMT at 2100 GMT,
26 Hurricane Dean was located at 16.1North latitude and 70.2 West longitude. The
27 present movement is west-northwest (285 degree azimuth) at 16 knots. The
28 estimated minimum pressure is 930 millibars with max sustained winds of 130 knots
29 with gusts to 160 knots. This makes Dean a strong Category 4 Hurricane.

CONUS DAY 3 LANDING FORECASTS

STS-118

ISSUED: Saturday Aug. 18, 2007 1400Z
Saturday Aug. 18, 2007 0900CDT

KSC	Valid: Tuesday Aug 21 1629 UTC – 1804 UTC Tuesday Aug 21 1129 CDT – 1304 CDT SCT030 SCT250 7 SM SLGT CHC SHRA WI 30 NM	11010P18 KT RWY 15/33 X=13 H/T=13
EDW	Valid: Tuesday Aug 21 1934 UTC – 2245 UTC Tuesday Aug 21 1434 CDT – 1745 CDT SKC 7 SM WND 23015P23 AFT 21Z	23010P16 KT RWY 22/04 X=2 H/T=16
NOR	Valid: Tuesday Aug 21 1935 UTC – 2111 UTC Tuesday Aug 21 1435 CDT – 1611 CDT FEW050 SCT100 BKN250 7 SM SLGT CHC TSRA WI 30 NM	15005P10 KT RWY 17/35 X=4 H/T=9

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Figure 1 EOM Landing Forecast



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Figure 2 Latest Hurricane Dean Forecast

MSG 128 - FD12 TRANSFER MESSAGE

1 Good morning Barb, Al & Dave,

2
3 Just a few follow up questions from yesterday. Today you have a few hours of time in the
4 morning to clean up Spacehab items. We will be available for a tagup during that time – call
5 us when you are ready.

6
7 **Q&As:**

8 **Q1: Shuffle of CTBs at FP08, FP09, FP10 and FP12:** Please confirm the following
9 locations:

10 FP08 – Yurchikin Crew Pref (s/n 1306) 0.5 CTB.

11 FP09 – Kotov Crew Pref (s/n 1108) 0.5 CTB

12 FP10 – MS5 Crew Clothing 0.5 CTB

13 FP12 – Item 732 MISSE Clamp 0.5 CTB

14
15 **Q2: Item 423 (Photo TV Resupply Bag):** Please provide the following data:

16 Item 423.1 – about how many were stowed in this CTB?

17 Item 423.2 – about how many were stowed in this CTB?

18 Item 423.5 – which s/n was stowed in this CTB? s/n 1014 or 1025?

19 Item 423.15 – which five s/ns were stowed in this CTB?

20 Item 423.18 – which two flashes were stowed in this CTB?

21
22 **Q3: Rack Front Tray strap reconfiguration for MISSE return:** We recommended that the 10
23 straps be stowed in Return Bag 743 along with the EVA Tools 2 mesh bag (item 743.1).
24 Please confirm that these straps were stowed there.

25
26 **Q4: Additional CEVIS items Al added to return:** Please confirm where these are stowed.
27 We suspect they are in item 726 3.0 CTB with the old CEVIS ergometer and cable.

28
29 **Q4: Item 754.3 Vacuum Cleaner Bag:** Please confirm this item was double bagged in
30 24X24 ziplock bags.

31
32 **Q5: Foam from Unpacking Resupply Bags:** Just want to confirm this is all in SH.

33
34 **A1: Water samples in MF28M (and then temp stowed in MF28H):** MDDK stow would prefer
35 for these samples to return in an empty food tray in MF14E.

36
37 **A2: Msg 132 Middeck Return Updates:** MDDK stow has provided a new layout for Bag G
38 showing how to stow the double locker tray from MF28M.

39
40 **A3: Updated SH layouts:** We've realized we are a little out of synch with updating the
41 layouts in the SH books based on all the changes in the last few days. We've uplinked
42 revised pages for your book for your reference as you close out Spacehab.

43
44 **For today - FD12 Choreography**

45 Middeck/Spacehab

46 – Clean up whatever is left and have some fun

47 – Let us know what you did with the bananas

48
49
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51

MSG 128 - FD12 TRANSFER MESSAGE

1 **Please update the Spacehab Transfer List as follows:**

2

3 In **LAYOUTS** tab:

4 Replace Pages SL-5 through SL-8

5

6 Please call us with questions.

7 - The Transfer Team

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MSG 128 - FD12 TRANSFER MESSAGE

1 Good morning Barb, Al & Dave,

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3 Just a few follow up questions from yesterday. Today you have a few hours of time in the
4 morning to clean up Spacehab items. We will be available for a tagup during that time – call
5 us when you are ready.

6
7 **Q&As:**

8 **Q1: Shuffle of CTBs at FP08, FP09, FP10 and FP12:** Please confirm the following
9 locations:

10 FP08 – Yurchikin Crew Pref (s/n 1306) 0.5 CTB.

11 FP09 – Kotov Crew Pref (s/n 1108) 0.5 CTB

12 FP10 – MS5 Crew Clothing 0.5 CTB

13 FP12 – Item 732 MISSE Clamp 0.5 CTB

14
15 **Q2: Item 423 (Photo TV Resupply Bag):** Please provide the following data:

16 Item 423.1 – about how many were stowed in this CTB?

17 Item 423.2 – about how many were stowed in this CTB?

18 Item 423.5 – which s/n was stowed in this CTB? s/n 1014 or 1025?

19 Item 423.15 – which five s/ns were stowed in this CTB?

20 Item 423.18 – which two flashes were stowed in this CTB?

21
22 **Q3: Rack Front Tray strap reconfiguration for MISSE return:** We recommended that the 10
23 straps be stowed in Return Bag 743 along with the EVA Tools 2 mesh bag (item 743.1).
24 Please confirm that these straps were stowed there.

25
26 **Q4: Additional CEVIS items Al added to return:** Please confirm where these are stowed.
27 We suspect they are in item 726 3.0 CTB with the old CEVIS ergometer and cable.

28
29 **Q4: Item 754.3 Vacuum Cleaner Bag:** Please confirm this item was double bagged in
30 24X24 ziplock bags.

31
32 **Q5: Foam from Unpacking Resupply Bags:** Just want to confirm this is all in SH.

33
34 **A1: Water samples in MF28M (and then temp stowed in MF28H):** MDDK stow would prefer
35 for these samples to return in an empty food tray in MF14E.

36
37 **A2: Msg 132 Middeck Return Updates:** MDDK stow has provided a new layout for Bag G
38 showing how to stow the double locker tray from MF28M.

39
40 **A3: Updated SH layouts:** We've realized we are a little out of synch with updating the
41 layouts in the SH books based on all the changes in the last few days. We've uplinked
42 revised pages for your book for your reference as you close out Spacehab.

43
44 **For today - FD12 Choreography**

45 Middeck/Spacehab

46 – Clean up whatever is left and have some fun

47 – Let us know what you did with the bananas

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MSG 128 - FD12 TRANSFER MESSAGE

1 **Please update the Spacehab Transfer List as follows:**

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3 In **LAYOUTS** tab:

4 Replace Pages SL-5 through SL-8

5

6 Please call us with questions.

7 - The Transfer Team

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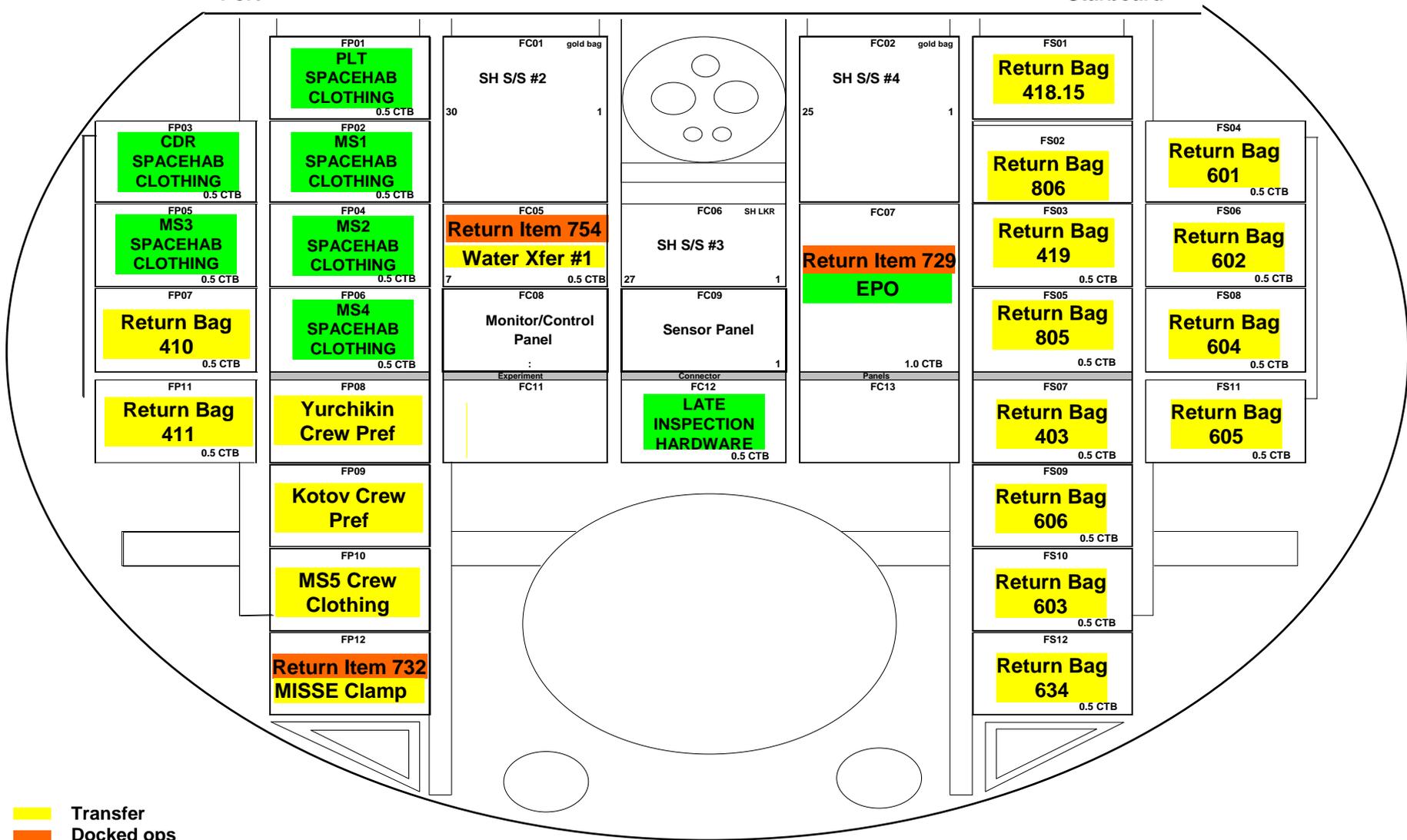
51

SPACEHAB Module Layout

Forward Bulkhead

Port

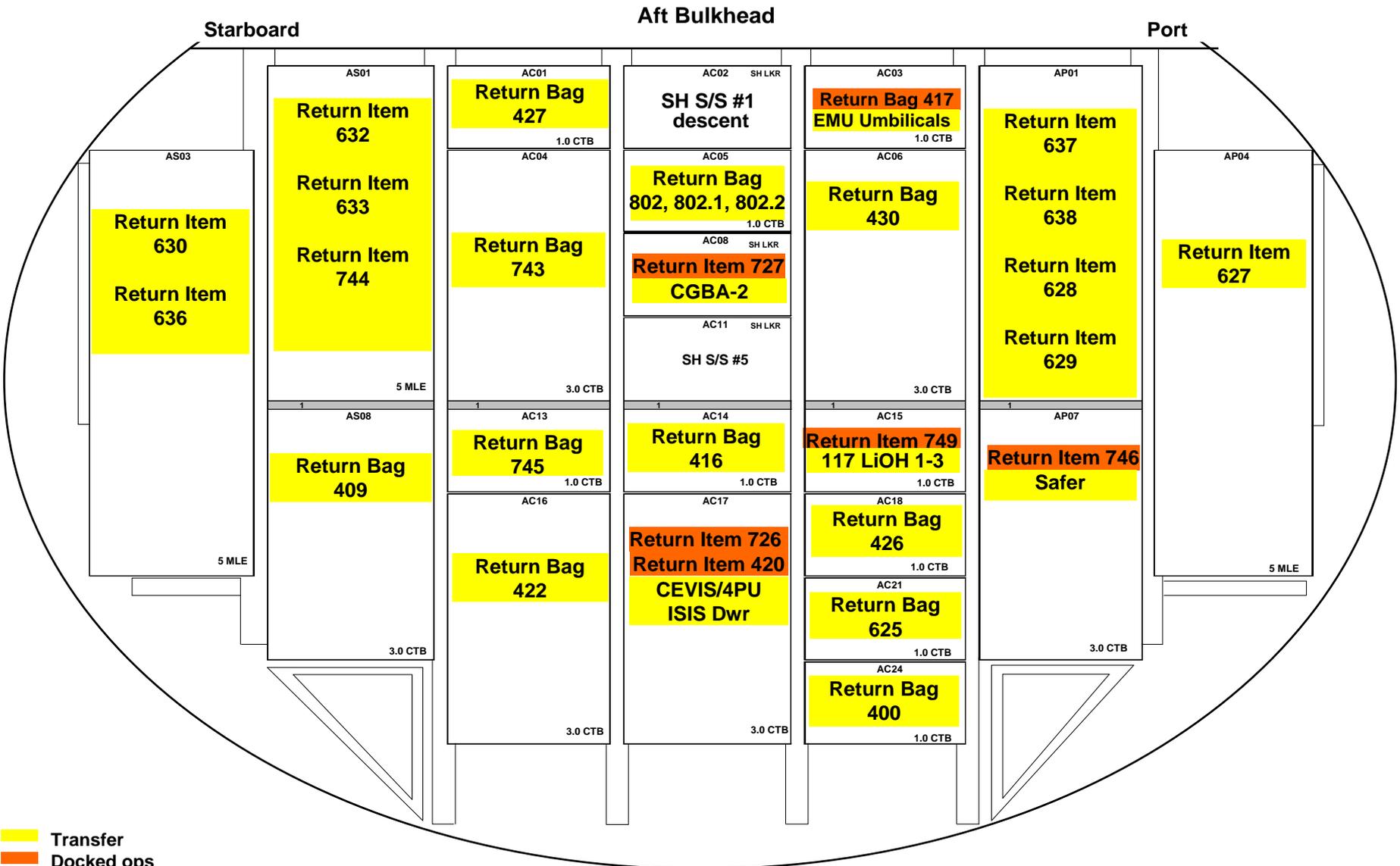
Starboard



- Transfer
- Docked ops
- Does not transfer to ISS

Return

SPACEHAB Module Layout

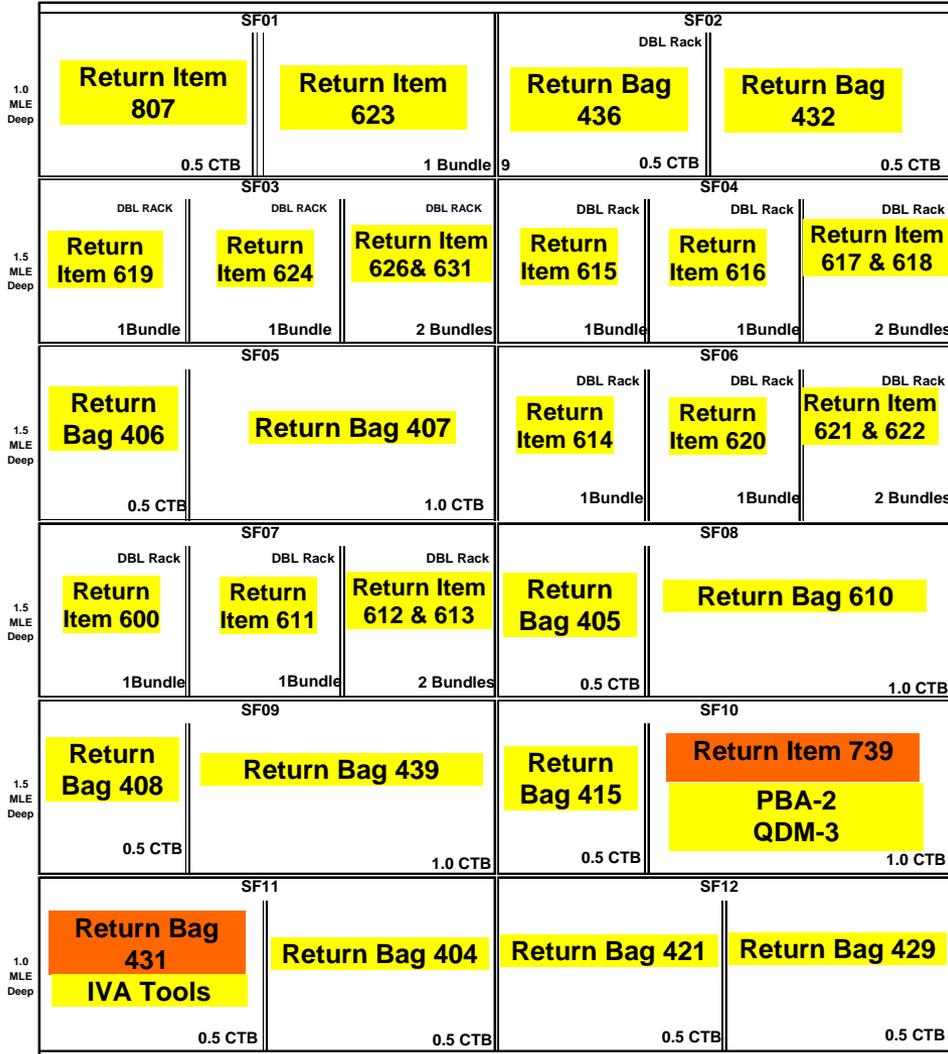


- Transfer
- Docked ops
- Does not transfer to ISS

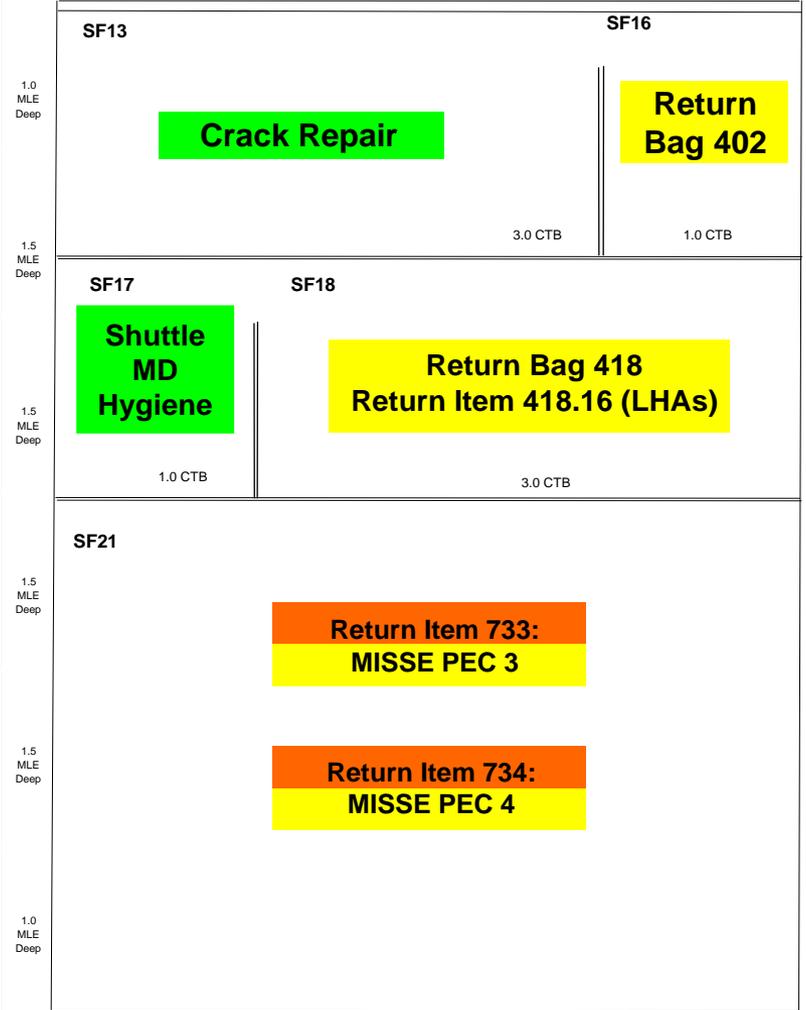
Return

MSG 128: FD12 Transfer Message

SPACEHAB Double Rack
Starboard Side



SPACEHAB Double Rack
Starboard Side
Rack Front Stowage



- Transfer
- Docked ops
- Does not transfer to ISS

Return

**SPACEHAB MESS Rack
Port Side**

PF01
Return Bag 607
Return Item 747 SCRATCH PANE ASSEMBLY [old]
Return Item 730 Interface Heat Exchanger [old]
PF04
Return Item 640
Return Item 639
Return Item 608
Return Item 609

**SPACEHAB MESS Rack
Port Side
Rack Front Stowage**

PF13	PF14	PF15	PF16
Return Bag 435	Return Bag 742	Return Bag 434	Return Bag 437
1.0 CTB	1.0 CTB	1.0 CTB	
PF17	PF18		
Return Item 751 118 LiOH 4-6	Return Item 752 118 LiOH 7-9		
1.0 CTB	1.0 CTB		
PF21			
Return Bag 425 425.13 Baseplate Ballast Assembly			
3.0 CTB			
PF25		PF27	PF28
Return Item 750 118 LiOH 1-3		Return Bag 414	Return Item 741 QDM-3
1.0 CTB		0.5 CTB	0.5 CTB

- Transfer
- Docked ops
- Does not transfer to ISS

Return

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**FLIGHT DAY 3 DOCKING
ORBITER with ISS
CO2 ABSORBER REPLACEMENT
(7 Crewmembers/Single Shift/FD 17)**

FLIGHT DAY	POS A	POS B	CK CMPLT
LAUNCH	1	2	
PRE FD1	"	"	
POST FD2	3	4	
PRE FD2	5*	6	
POST FD3	7	"	
PRE FD3	"	8	
POST FD4	"	"	
PRE FD4	9	"	
POST FD5	"	"	
PRE FD5	"	10	
POST FD6	"	"	
PRE FD6	11	"	
POST FD7	"	"	
PRE FD7	"	12	
POST FD8	"	"	
PRE FD8	13	"	
POST FD9	"	"	w/ SSPTS
PRE FD9	"	STS-114 9	
POST FD10	"	"	w/ SSPTS
PRE FD10	STS-121 34		
POST FD11	"	"	w/ SSPTS
MID FD11 (HATCH CLOSURE)	STS-114 14	STS-114 15*	
PRE FD11	"	"	
POST FD12	14	15	
PRE FD12	16	17	
POST FD13	18	19	
PRE FD13	20	21	
POST FD14 (EOM)	22	23	
PRE FD14	24	25	
POST FD15 (EOM+1)	26	27	
PRE FD15	28	29	
POST FD16 (EOM+2)	30	31	
PRE FD16	114 17	114 18	
POST FD17 (EOM+3)	114 19	114 20	

*Reseal LiOH cans w/ Gray Tape and stow
(Locations of canisters on back)

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NOTE: This card is specifically used for the STS-118 mission with the Orbiter conducting single shift operations with a crew size of 7. This changeout scheme reflects FD3 docking with ISS and CDRA dual bed and Vozdukh operation. The double lined box around FD9 through FD11 represents the +3 days that are dependent upon successful SSPTS operation.

1 **FD12 CDM Battery Changeout**

2
3 To maintain the CDM CO2 data for post-flight analysis, perform the following:

- 4
- 5 1. Retrieve ISS CDM Kit (S/N 1007) from Middeck Floor Port 1 Bag A. This kit was
6 transferred FD07 (Transfer Item 438).
 - 7 2. Retrieve one spare battery pack from the ISS CDM Kit (S/N 1007). The spare
8 battery packs will NOT be marked as "Discharged."
 - 9 3. Install the spare battery pack in the Shuttle CDM to preserve data already taken
10 during the mission. Verify battery electrodes are firmly seated by ensuring the
11 battery pack is flush with the back panel. Mark the removed battery pack as
12 "Discharged" and stow in ISS CDM Kit (S/N 1007).
 - 13 4. Verify Shuttle CDM is OFF.
 - 14 5. Stow the ISS CDM Kit in Middeck Floor Port 1 Bag A for return.
 - 15 6. Demate filter assembly from CDM QD and stow both in MF43H for return.
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MSG 131 - FD12 SPACEHAB VIEWPORT VIOLATIONS

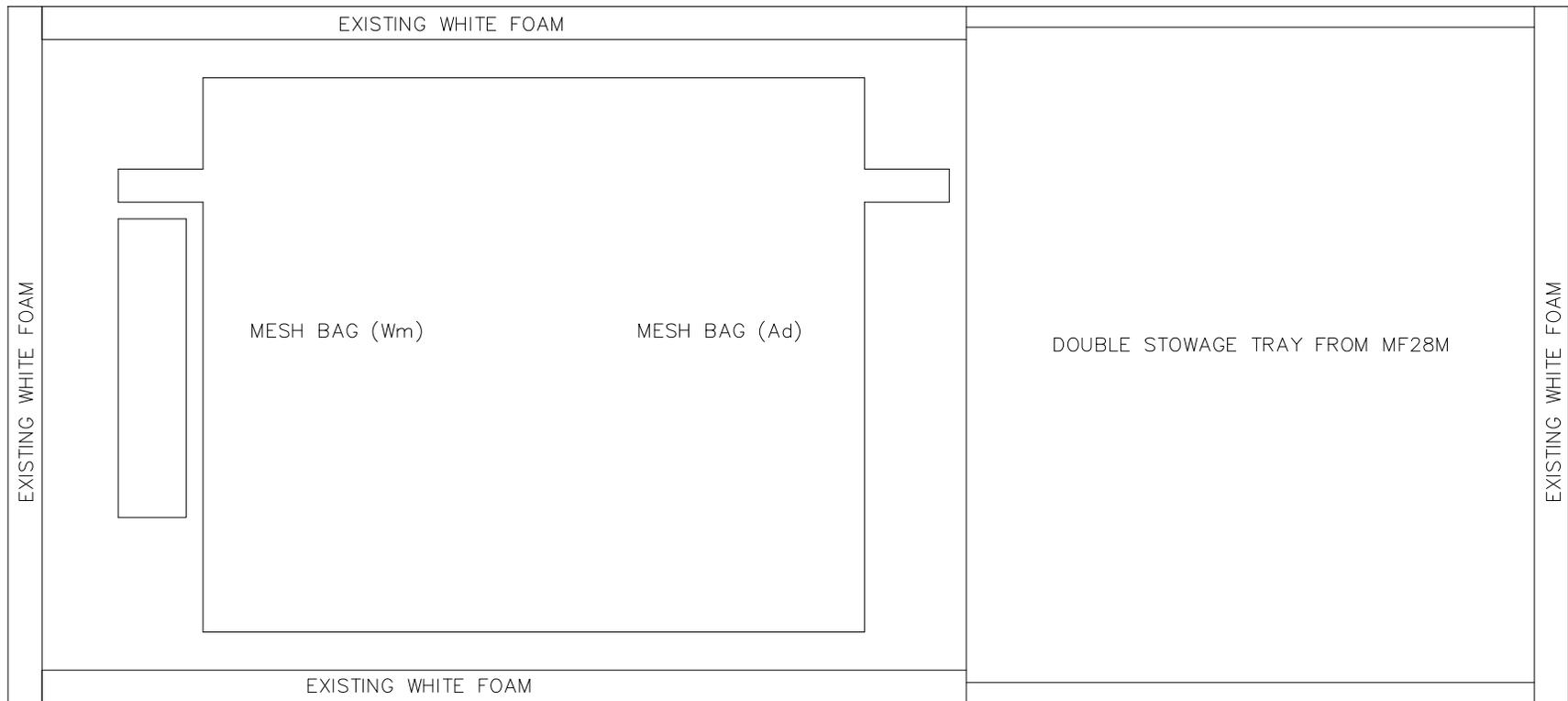
<u>MET</u>	<u>CONSTRAINT</u>	<u>ACTION</u>
10/17:45 – 10/18:00	Deep Space	If Viewport open, HTR – ON
10/21:00 – 10/22:00	Sun in FOV	Close Viewport Cover, HTR – OFF

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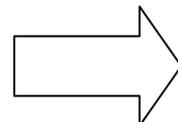
MSG 132 - MIDDECK RETURN UPDATES

1. The Portable Fluorescent Light (Photoflood) that launched in the Spacehab should be returned in the middeck locker MF43H.
2. CWC Water Samples (5) located in MF28H should be moved to MF14E.
3. See below for the return layout for MD Ceiling STBD 1 (Bag G) for the return of the Stowage Tray from locker MF28M.

TOP VIEW OF 5 MLE BAG



NOTES:
PLACE LAUNDRY/TOWELS AND/ OR WASHCLOTHES AROUND STOWAGE TRAY FOR PROTECTION



FORWARD

MD CEILING STBD 1 (BAG G)
(RETURN LAYOUT)