STS-119 / 15A

FD 13 Execute Package

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134A	16 - 17	FD13 Mission Summary **(pdf)**
135A	---	FD13 PAO Event Summary **(pdf - Electronic Only)**
136	---	NCAA Basketball Championship Brackets, Sweet 16, Part 1 **(pdf - Electronic Only)**
137	18	Entry Day Fluid Loading And Anti-G Suit Ops **(pdf)**
138	19	Combo Dump Details **(pdf)**

Approved by FAO: *Mark Blanton*

Last Updated: Mar 27 2009 7:07AM GMT
JEDI *(**J**oint **E**xecute package **D**evelopment and **I**ntegration), v2.04.0003*

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MSG INDEX

MSG NO.	TITLE
MSG133	FD13 Flight Plan Revision
MSG134	FD13 Mission Summary
MSG135	FD13 PAO event summary
MSG136	NCAA Basketball Championship Brackets, Sweet 16, Part 1
MSG137	Entry Day Fluid Loading and Anti-G Suit Ops
MSG138	Combo Dump Details

1. Cryo Config

For today's cryo config, O2 and H2 Tanks 1 and 4 will be active. H2 Tank 4 is expected to be depleted today.

R1 O2,H2 MANF VLV TK1 (two) - OP (tb-OP)
H2 TK3 HTRS A,B (two) - OFF

2. GLACIER

The GLACIER team would like to thank you for your help in troubleshooting the overtemp error seen on FD12. Based on the data you collected and read down for us, the GLACIER unit appears to be performing nominally, which is a great relief to the science team!

Shortly before this unit's removal from ISS, the ground team noticed an upward trend in the Vacuum Jacket temperature measurement. Although we do not have direct insight into this temperature sensor while GLACIER is installed on Shuttle, our best guess at this time is that the Vacuum Jacket sensor has continued its upward trend and has now broken its high temperature threshold. The GLACIER team believes the sensor is giving erroneous high temperature readings, and the vacuum jacket is not really hot.

If our diagnosis is correct, there should be no further error annunciations, and no effect on GLACIER performance. We will not require any further crew action beyond the normal morning and evening status checks. Thanks again for your help!

3. Jettison Stowage Bag (Foam) Airlock Configuration

Tie off bags of foam to either the EVA standoffs on the handrails or EVA tether points in the Airlock. Pull towards floor and grey tape.

4. Waste/CWC Dump

Today you will be performing a waste tank dump followed by CWC s/n 5076. You will need to pre-gather equipment for the CWC dump. Dump details are contained in MSG 138.

5. Entry Day Fluid Loading

Per today's EZ Activity callout, water for fluid loading should be pulled today. Reference MSG 137. Report to MCC when starting this activity and again when complete.

6. SIMPLEX Constraints

Please verify that all dumps (nozzle, FES, FC Purges) are terminated at least 15 minutes prior to the SIMPLEX burn until 5 minutes after the burn. PLB lights and Illuminators should be off during the burn.

7. Outlook

Prior to Ku Stow this afternoon, we will downlink your Outlook Personal Folders so that you may have them when you return to Houston. Please move any messages that you would like to keep from your INBOX, SENT ITEMS and UPLINKED BY CAPCOM folders to your Personal Folder before MET 11/20:00. We will also perform one final mail synch at the same time to deliver any last minute messages you want to send. We will not lock you out of your e-mail during this time so that you can still read your e-mail, but anything you change or write will be lost.

8. Replace pages 2-43 through 2-45 and 3-138 through 3-147.

REPLANNED

GMT 03/26/09 (085) 03/27 01 02 03 04 05 06 07 08 09 10 11

MET Day 011 011/00 01 02 03 04 05 06 07 08 09 10 11 12

STS-119

FD12

CDR ARCHAMBAULT	PRE SLEEP	SLEEP		POST SLEEP
PLT ANTONELLI	PRE SLEEP	SLEEP	LOG	POST SLEEP
MS1 ACABA	PRE SLEEP	SLEEP		POST SLEEP; EXERCISE
MS2 SWANSON	PRE SLEEP	SLEEP	SLVA; DRYSLV; POST SLEEP; DRYSLV	POST SLEEP
MS3 ARNOLD	PRE SLEEP	SLEEP	SLVA; DRYSLV; POST SLEEP; DRYSLV	POST SLEEP
MS4 PHILLIPS	PRE SLEEP	SLEEP	LOG; SLVA; DRYSLV; POST SLEEP; DRYSLV	POST SLEEP
FE-2 DN MAGNUS	PRE SLEEP	SLEEP	SLVA; DRYSLV; POST SLEEP; DRYSLV	POST SLEEP

DAY/NIGHT

ORBIT 174 175 176 177 178 179 180 181 182

TDRS W E Z

ORB ATT -ZLV -XVV

GND
- DFR
- DFR, MLA
- WSS, DFR, MLA
- WSS, DFR, MLA
- DFR

NOTES

REPLANNED

GMT 03/27/09 (086) — 12 13 14 15 16 17 18 19 20 21 22 23 012/00

MET Day 011 — 12 13 14 15 16 17 18 19 20 21 22 23

STS-119

FD13

CDR ARCHAMBAULT	POST SLEEP; EXERCISE; CABIN STOW; FCS C/O; RCS HOT; FIRE; EQP*; MEAL; D/O BRIEF; PAO; MNVR DUMP; WASTE WATER MIX; CABIN STOW; WASTE TERM; CWC DUMP; IMU; SMPLX BURN; ^BURN -ZLV -XVV; PILOT OPS; ENTRY%; PMC A/G; PRE SLEEP
PLT ANTONELLI	POST SLEEP; W/B*; CABIN STOW; FCS C/O; RCS HOT; FIRE; FES-I; MEAL; D/O BRIEF; PAO; CABIN STOW; EXERCISE; FES-T; SMPLX BURN; FES-I; CABIN STOW; PILOT OPS; MADS+; FES-T; PRE SLEEP
MS1 ACABA	EXER CISE; FILTER CLEANING; CABIN STOW; MEAL; D/O BRIEF; PAO; CABIN STOW; L-1 COMM CHK; SSV DEACT; CABIN STOW; COMM 1; PRE SLEEP; KU STOW; MUS; PRE SLEEP
MS2 SWANSON	♣; @CAO; BLOOD; DRUB WJ; POST SLEEP; EXERCISE; FCS C/O; RCS HOT; FIRE; DRY SLV; MEAL; D/O BRIEF; PAO; CABIN STOW; DRY SLV; CABIN STOW; WLESS DEACT; PILOT OPS; PGSC STOW PART I; KU STOW; PRE SLEEP
MS3 ARNOLD	POST SLEEP; BLOOD DRUB WJ; SMDBK%; CABIN STOW; FCS C/O P/TV; CABIN STOW; DRY SLV; RCS HF P/TV; PAO SETUP; MEAL; D/O BRIEF; PAO; ENTRY VIEW SETUP; CABIN STOW; EXERCISE; DRY SLV; ERG STOW; CABIN STOW; MDK*; PRE SLEEP
MS4 PHILLIPS	BSLOOUD; BLOOD DRAW; BDOR OW D; BDOR OW D; BDOR OW D; BDSR OW D; BDSR OW J; STOW#; CABIN STOW; DRY SLV; MEAL; D/O BRIEF; PAO; EXERCISE; CABIN STOW; DRY SLV; ERG STOW; RCMBNT SEAT S/U; LAUNCH ENTRY SUIT CK; MUS; PRE SLEEP
FE-2 DN MAGNUS	POST SLEEP; BDRO LOAD; SBUL BOJ; BDOR OW D; EXERCISE; DRY SLV; MEAL; D/O BRIEF; PAO; CABIN STOW; DRY SLV; CABIN STOW; RCMBNT SEAT S/U; LAUNCH ENTRY SUIT CK; PRE SLEEP

DAY/NIGHT

ORBIT: 182 183 184 185 186 187 188 189 190

TDRS: W E Z

ORB ATT: -ZLV -XVV | -ZLV +YVV | SM | -ZLV -XVV

GND: —MLA; —WSS —DFR ·MLA; —WSS —DFR; —DFR

NOTES: ♣POST SLEEP%STATUS CK *HEATER ACT #BLOOD @RATE DECONFIG; *GATHER DUMP EQUIPMENT; %COOLING CNFG +POWER ON *STATUS CK

REPLANNED

GMT 03/27/09 (086) 03/28 01 02 03 04 05 06 07 08 09 10 11

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

STS-119

FD14

CDR ARCHAMBAULT	PRE SLEEP	SLEEP	POST SLEEP	PMC A/G; GRPB
PLT ANTONELLI	PRE SLEEP	SLEEP	LOG; POST SLEEP	GRPB
MS1 ACABA	PRE SLEEP	SLEEP	POST SLEEP	
MS2 SWANSON	PRE SLEEP; DRYSLV	SLEEP	POST SLEEP	
MS3 ARNOLD	PRE SLEEP; DRYSLV	SLEEP	POST SLEEP	
MS4 PHILLIPS	PRE SLEEP; DRYSLV	SLEEP	LOG; POST SLEEP	
FE-2 DN MAGNUS	PRE SLEEP; DRYSLV	SLEEP	POST SLEEP	

DAY/NIGHT

ORBIT: 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198

TDRS W E Z

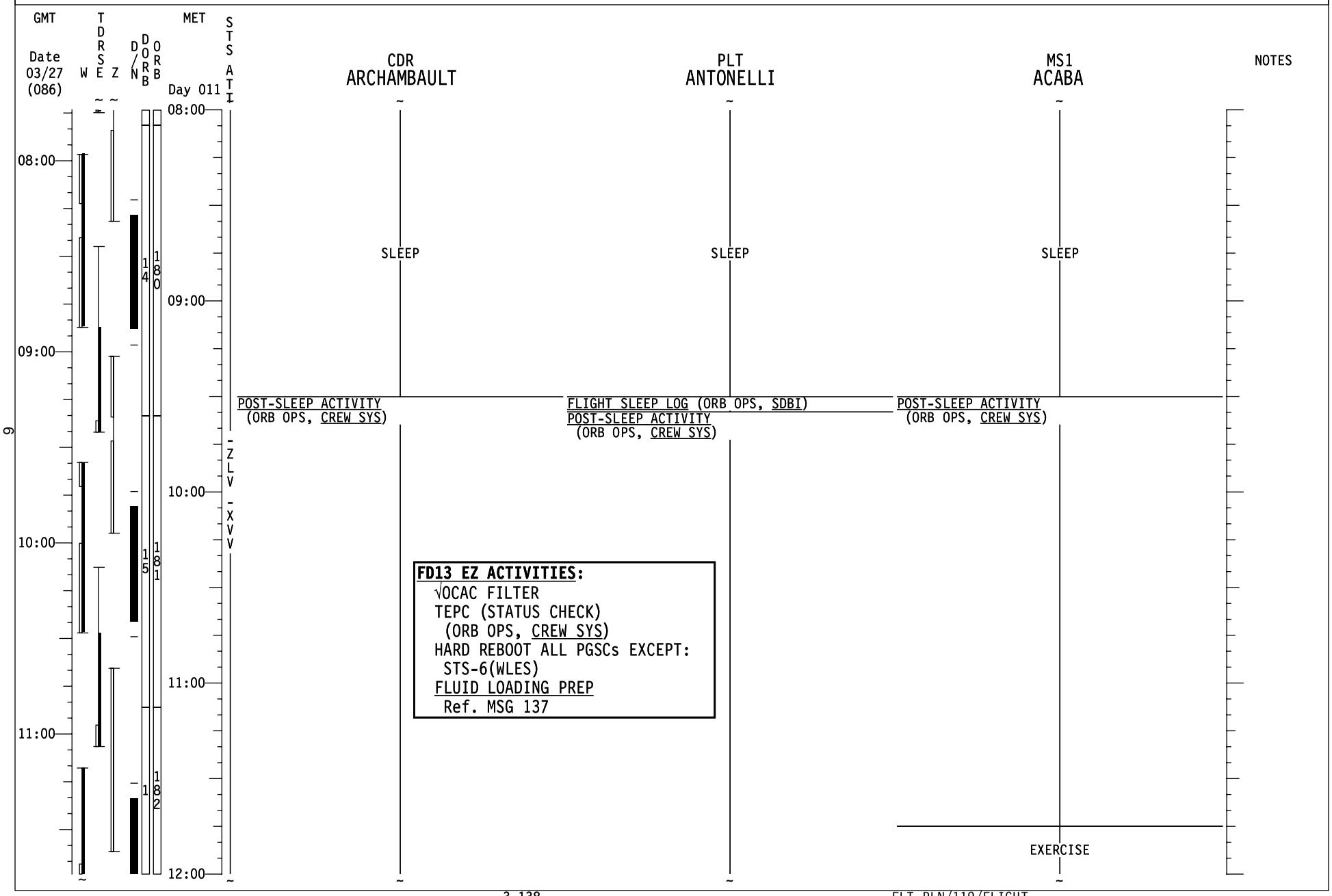
ORB ATT: -ZLV -XVV

GND: DFR; DFR MLA; WSS DFR MLA; WSS DFR; DFR

NOTES

FLT PLN/119/FLIGHT

STS-119 FD (13)


GMT
Date 03/27 (086)
W
TDRSE
Z
D/N
DORB
ORB
MET
Day 011
STS ATT
CDR ARCHAMBAULT
PLT ANTONELLI
MS1 ACABA
NOTES
08:00
09:00
10:00
11:00
12:00
14
15
1
180
181
182
-ZLV
-XVV
SLEEP
SLEEP
SLEEP
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
FLIGHT SLEEP LOG (ORB OPS, SDBI)
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
FD13 EZ ACTIVITIES:
√OCAC FILTER
TEPC (STATUS CHECK) (ORB OPS, CREW SYS)
HARD REBOOT ALL PGSCs EXCEPT: STS-6(WLES)
FLUID LOADING PREP
Ref. MSG 137
EXERCISE

STS-119 FD (13)

GMT Date 03/27 (086) | W | TDRSE | Z | D/N | DORB | ORB | MET Day 011 | STS ATT | MS2 SWANSON | MS3 ARNOLD | MS4 PHILLIPS | FE-2 (DN) MAGNUS | NOTES

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

14 180 15 181 1 182

- ZLV - XVV

MS2 SWANSON	MS3 ARNOLD	MS4 PHILLIPS	FE-2 (DN) MAGNUS
SLEEP	SLEEP	SLEEP	SLEEP
LIQUID SLVA SAMPLE(ORB OPS,SDBI)	LIQUID SLVA SAMPLE(ORB OPS,SDBI)	FLIGHT SLEEP LOG (ORB OPS, SDBI)	LIQUID SLVA SAMPLE(ORB OPS,SDBI)
DRY SALIVA CLCT(ORB OPS,SDBI)	DRY SALIVA CLCT(ORB OPS,SDBI)	LIQUID SLVA SAMPLE(ORB OPS,SDBI)	DRY SALIVA CLCT(ORB OPS,SDBI)
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	DRY SALIVA CLCT(ORB OPS,SDBI)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
		POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
DRY SALIVA CLCT(ORB OPS,SDBI)	DRY SALIVA CLCT(ORB OPS,SDBI)	DRY SALIVA CLCT(ORB OPS,SDBI)	DRY SALIVA CLCT(ORB OPS,SDBI)
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)

REPLANNED

STS-119 FD (13)

GMT Date 03/27 (086) | W | TDRSE | Z | D/N | DORB | ORB | MET Day 011 | STS ATT

CDR ARCHAMBAULT	PLT ANTONELLI	MS1 ACABA	NOTES
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
	W/B STEAM VENT HTR ACT A	EXERCISE	
	A R2 √BLR CNTLR/HTR(three) -B PWR (three) -ON		
		FILTER CLEANING (IFM, SCHEDULED MAINTENANCE)	
EXERCISE	CABIN CONFIG/STOW		
CABIN CONFIG/STOW			
FCS CHECKOUT (ORB OPS, GNC)	FCS CHECKOUT (ORB OPS, GNC)		UPDATE TFL 161
		CABIN CONFIG/STOW	
RCS HOT FIRE TEST (ORB OPS, RCS)	RCS HOT FIRE TEST (ORB OPS, RCS)		UPDATE TFL 188
DAP: AUTO	DAP: AUTO		
GATHER DUMP EQUIPMENT Ref MSG 138	SUPPLY WATER DUMP USING FES (ORB OPS, ECLS) Step 1, Using FES Pri A		
MEAL	MEAL	MEAL	

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

STS ATT: -ZLV -XVV

DORB: 1 2 3 4; ORB: 182 183 184 185

8

STS-119 FD (13)

GMT Date 03/27 (086) | W | TDRSE | Z | D/N | DORB | ORB | MET Day 011 | STS ATT

MS2 SWANSON

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- RECONFIGURE OCA DOWNLINK RATE [B]
- SDBI 1900, INTEGRATED IMMUNE BLOOD CLCT (ORB OPS, SDBI) Perform BLOOD SAMPLE CLCT (SUBJ)
- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- EXERCISE
- FCS CHECKOUT (ORB OPS, GNC)
- RCS HOT FIRE TEST (ORB OPS, RCS)
- DAP: AUTO
- DRY SALIVA CLCT(ORB OPS,SDBI)
- MEAL

[B] (ORB OPS, PGSC) Perform "Deconfigure from KU PL MAX" In Step 2, perform Step A

MS3 ARNOLD

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- SDBI 1900, INTEGRATED IMMUNE BLOOD CLCT (ORB OPS, SDBI) Perform BLOOD SAMPLE CLCT (SUBJ)
- MDDK ST CK(ASSY OPS,PYLDS)Step 1
- CABIN CONFIG/STOW
- FCS C/O CAMERA SETUP (PHOTO/TV, REF PROC) Perform Setup
- CABIN CONFIG/STOW
- DRY SALIVA CLCT(ORB OPS,SDBI)
- FCS C/O CAMR SETUP (PHOTO/TV, REF PROC) Verify SETUP
- ANALOG PAO CC (PHOTO/TV, ANALOG CC REC. DNLK)
- MEAL

MS4 PHILLIPS

- SDBI 1900, INTEGRATED IMMUNE BLOOD CLCT (ORB OPS, SDBI) Perform SETUP FOR BLOOD SAMPLE CLCT
- SDBI 1900, INTEGRATED IMMUNE BLOOD CLCT (ORB OPS, SDBI) Perform BLOOD SAMPLE CLCT (OPR)
- SDBI 1900, INTEGRATED IMMUNE BLOOD CLCT (ORB OPS, SDBI) Perform BLOOD SAMPLE CLCT (OPR)
- SDBI 1900, INT IMMUNE BLOOD CLCT (ORB OPS, SDBI) Perform BLOOD SAMPLE CLCT (OPR)
- SDBI 1900, INT IMMUNE BLOOD CLCT (ORB OPS, SDBI) Perform BLOOD SAMPLE CLCT (SUBJ)
- SDBI 1900, INTEGRATED IMMUNE BLOOD CLCT (ORB OPS, SDBI)Perform STOW HARDWARE
- CABIN CONFIG/STOW
- DRY SALIVA CLCT(ORB OPS,SDBI)
- MEAL

FE-2 (DN) MAGNUS

- POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)
- SDBI 1900, INTEGRATED IMMUNE BLOOD CLCT (ORB OPS, SDBI) Perform BLOOD SAMPLE CLCT (SUBJ)
- SDBI 1900, INTEGRATED IMMUNE BLOOD CLCT (ORB OPS, SDBI) Perform BLOOD SAMPLE CLCT (OPR)
- EXERCISE
- DRY SALIVA CLCT(ORB OPS,SDBI)
- MEAL

NOTES

REPLANNED

STS-119 FD (13)

GMT Date 03/27 (086) | W | TDRSE | Z | D/N | DORB | ORB | MET Day 011 | STS ATT

CDR ARCHAMBAULT	PLT ANTONELLI	MS1 ACABA	NOTES
MEAL	MEAL	MEAL	
DEORBIT PREP BRIEFING	DEORBIT PREP BRIEFING	DEORBIT PREP BRIEFING	
PUBLIC AFFAIRS EVENT KU AVAIL: TDRE 17:18-17:45 Ref. MSG 135	PUBLIC AFFAIRS EVENT KU AVAIL: TDRE 17:18-17:45 Ref. MSG 135	PUBLIC AFFAIRS EVENT KU AVAIL: TDRE 17:18-17:45 Ref. MSG 135	
MNVR (TRK) BIAS -ZLV +YVV TG=2 BV=3 OM=270 A1/AUTO/VERN			
SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Initiate Waste Dump, Ref MSG 138			UPDATE H2O WASTE DUMP QTY
CABIN CONFIG/STOW	CABIN CONFIG/STOW	CABIN CONFIG/STOW	
SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Terminate Waste Dump		LANDING-1 COMM C/O (ORB OPS, COMM/INST) MLA AOS 18:50-18:59	
CWC OVERBOARD DUMP (ORB OPS, ECLS) Ref MSG 138		SSV DEACTIVATION (PHOTO/TV, SSV)	
	EXERCISE	CABIN CONFIG/STOW	

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

-ZLV -XVV -ZLV +YVV

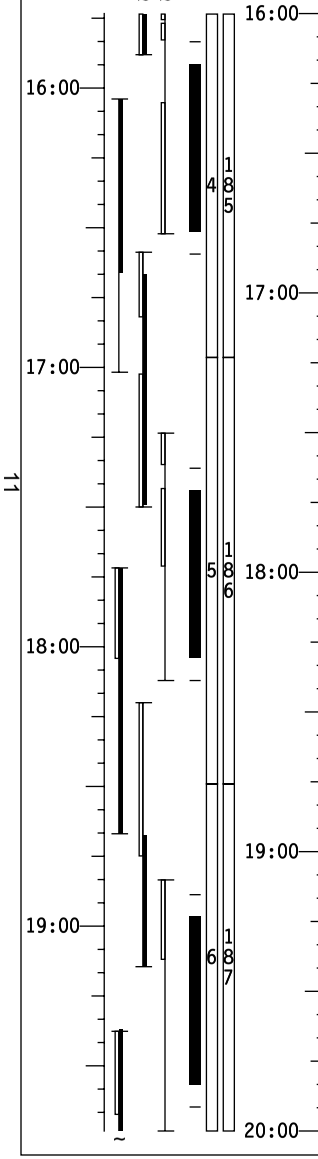
4 185 5 186 6 187

10

REPLANNED

STS-119 FD (13)

GMT Date 03/27 (086) | W | TDRSE | Z | D/N | DORB | ORB | MET Day 011 | STS ATT



MET	STS ATT	MS2 SWANSON	MS3 ARNOLD	MS4 PHILLIPS	FE-2 (DN) MAGNUS	NOTES
16:00		MEAL	MEAL	MEAL	MEAL	
17:00	-ZLV -XVV	DEORBIT PREP BRIEFING	DEORBIT PREP BRIEFING	DEORBIT PREP BRIEFING	DEORBIT PREP BRIEFING	
		PUBLIC AFFAIRS EVENT KU AVAIL: TDRE 17:18-17:45 Ref. MSG 135	PUBLIC AFFAIRS EVENT KU AVAIL: TDRE 17:18-17:45 Ref. MSG 135	PUBLIC AFFAIRS EVENT KU AVAIL: TDRE 17:18-17:45 Ref. MSG 135	PUBLIC AFFAIRS EVENT KU AVAIL: TDRE 17:18-17:45 Ref. MSG 135	
18:00	-ZLV +YVV	CABIN CONFIG/STOW	ENTRY VIDEO SETUP (PHOTO/TV, MINI-CAM) CABIN CONFIG/STOW	EXERCISE	CABIN CONFIG/STOW	
19:00			EXERCISE	CABIN CONFIG/STOW		
		DRY SALIVA CLCT(ORB OPS,SDBI)	DRY SALIVA CLCT(ORB OPS,SDBI)	DRY SALIVA CLCT(ORB OPS,SDBI)	DRY SALIVA CLCT(ORB OPS,SDBI)	UPDATE TFL 161
20:00		CABIN CONFIG/STOW			CABIN CONFIG/STOW	

REPLANNED

STS-119 FD (13)

GMT Date 03/27 (086) | W | TDRSE | Z | D/N | DORB | ORB | MET Day 011 | STS ATT

CDR ARCHAMBAULT	PLT ANTONELLI	MS1 ACABA	NOTES
IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)	SUPPLY WATER DUMP USING FES (ORB OPS, ECLS) Step 2, FES not req'd		
ON-ORBIT OMS BURN (ORB OPS, OMS) Ref. MSG 133, Item 6	ON-ORBIT OMS BURN (ORB OPS, OMS) Ref. MSG 133, Item 6		UPDATE ORBITAL MNVR PAD
< SIMPLEX TIG (011/20:32)	< SIMPLEX TIG (011/20:32)		
MNVR (TRK) -ZLV -XVV TG=2 BV=3 OM=0 A1/AUTO/VERN Init TRK	SUPPLY WATER DUMP USING FES (ORB OPS, ECLS) Step 1, using FES Pri A		
	CABIN CONFIG/STOW	CABIN CONFIG/STOW	
PILOT WITH RHC (ORB OPS, PGSC)	PILOT WITH RHC (ORB OPS, PGSC)		
C R12 √VPU PWR - OFF(LED-off) Minimize use of P/TV equipment Dim cabin lighting to 25%			
		COMM STRG 1 C/O (PART B) (ORB OPS,COMM/INST)	
ENTRY COOLING CONFIG C	A6L MADS STRAIN GAGE - ON		
06 √UHF MODE - OFF PRIVATE MEDICAL CONFERENCE	SUPPLY WATER DUMP USING FES (ORB OPS, ECLS) Perform Step 2 with FES Pri A req'd	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
		KU-BD ANT STOW (ORB OPS, COMM/INST) Deactivate CCTV	
		MUS (ASSY OPS,PAYLOADS)Stow in SODF Locker	
		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	

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

SM -ZLV -XVV

6 7 8 9 187 188 189 190

STS-119 FD (13)

GMT Date 03/27 (086) | W | TDRSE | Z | D/N | DORB | ORB | MET Day 011 | STS ATT

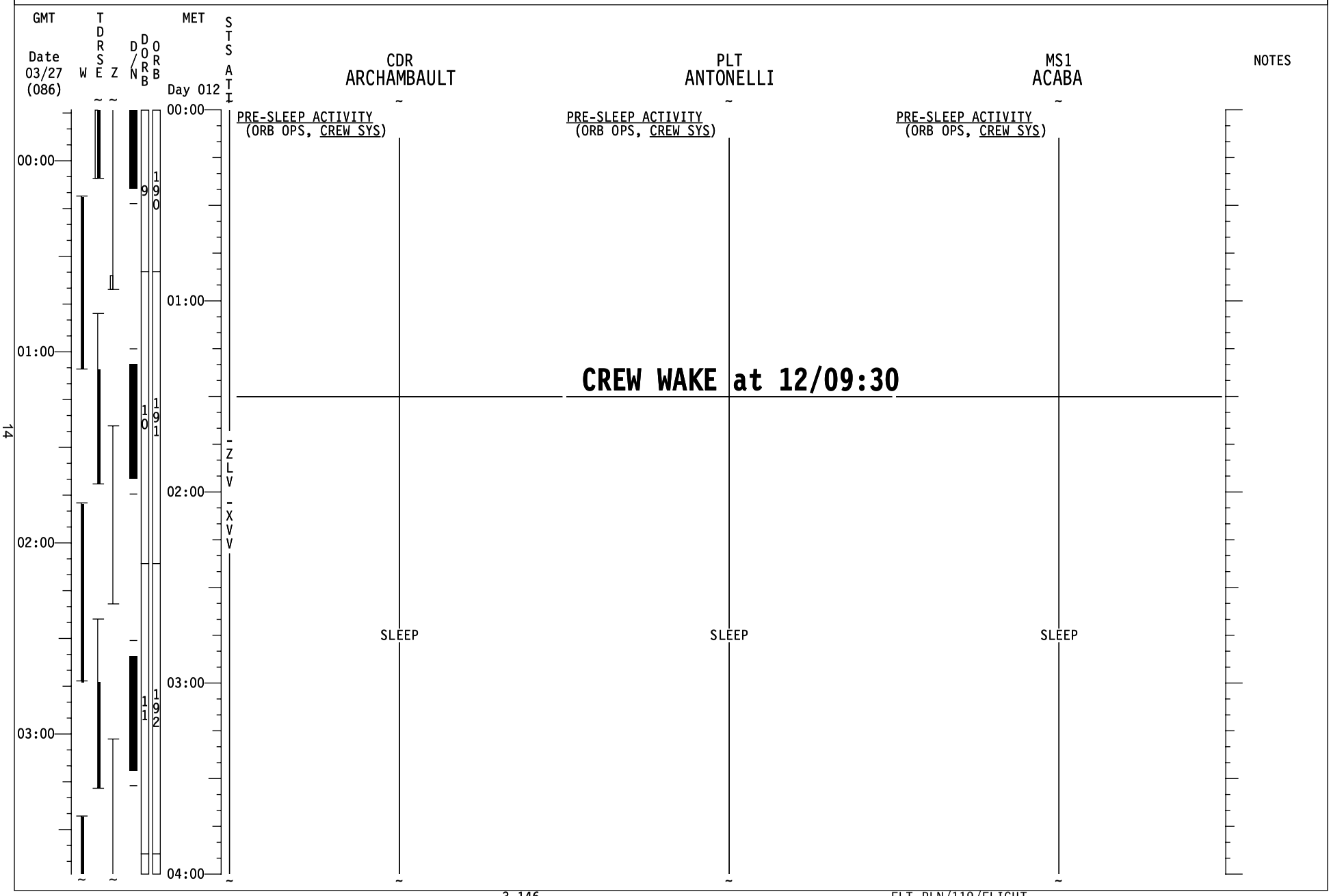
20:00 21:00 22:00 23:00 00:00

SM | ZLV | XVV

MS2 SWANSON	MS3 ARNOLD	MS4 PHILLIPS	FE-2 (DN) MAGNUS	NOTES
CABIN CONFIG/STOW	CYCLE ERGOMETER OPS (ORB OPS, CREW SYS) Perform RECONFIG/STOW	CYCLE ERGOMETER OPS (ORB OPS, CREW SYS) Perform RECONFIG/STOW	CABIN CONFIG/STOW	
WLES DEACTIVATION AND TEARDOWN (ORB OPS, WLE SENSORS)		RECUMBENT SEAT KIT ATTACH (ORB OPS, RSK ATTACHMENT)	RECUMBENT SEAT KIT ATTACH (ORB OPS, RSK ATTACHMENT)	
PILOT WITH RHC (ORB OPS, PGSC)	CABIN CONFIG/STOW	LAUNCH ENTRY SUIT CHECK Verify Fit	LAUNCH ENTRY SUIT CHECK Verify Fit	
PGSC DEACT (ORB OPS, PGSC) Stow all STS PGSCs except Worldmap	MDDK ST CK(ASSY OPS,PL)Step 1	MUS(ASSY OPS,PL)Stw in SODF Lckr	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
KU-BD ANT STOW (ORB OPS, COMM/INST) Deactivate CCTV	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)				

13

STS-119 FD (13)


GMT
Date 03/27 (086)
W
TDRSE
Z
D/N
DORB
ORB
MET
Day 012
STS ATT
CDR ARCHAMBAULT
PLT ANTONELLI
MS1 ACABA
NOTES
00:00
01:00
02:00
03:00
04:00
9
10
11
190
191
192
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)
CREW WAKE at 12/09:30
SLEEP
-ZLV
-XVV

STS-119 FD (13)

GMT Date 03/27 (086) | W | TDRSE | Z | D/N | DORB | ORB | MET Day 012 | STS ATT

MS2 SWANSON | MS3 ARNOLD | MS4 PHILLIPS | FE-2 (DN) MAGNUS | NOTES

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

CREW WAKE at 12/09:30

DRY SALIVA CLCT(ORB OPS,SDBI)

SLEEP

-ZLV -XVV

9 10 11 190 191 192

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

MSG 134A - FD13 MISSION SUMMARY

Good Morning Discovery!

Enjoy your last full day in space. We really enjoyed the video and photos you downlinked from the flyaround.

YOUR CURRENT ORBIT IS: 195 X 185 NM

NOTAMS:

NOTAMS – NO CHANGES

EDW -	EDW IN USE. EDT ELS DAY / VFR ONLY.
EDW -	LAKEBED RWY 15/33 - GREEN. RWY 18L - UNUSABLE.
NOR -	LAKEBED RUNWAYS GREEN.
ILM -	DME DIW107 OTS
FMH -	TACAN PVD103 DME ONLY.
DOV -	RWY 14/32 CLOSED.
YQX -	TACAN YQX74 OTS.
MRN -	TACAN AOG23 OTS.
WAK -	TACAN AWK82 OTS.
HAW -	TACAN ASI59 DME OTS.
KKI -	TACAN RIY92 OTS.
IKF -	NOT USABLE. NO AGREEMENT.
BEN -	NOT RECOMMENDED/NOT SUPPORTED.

NEXT 2 PLS OPPORTUNITIES:

EDW04 ORB 188 – 11/21:10 SKC 7 060/13P20
EDW04 ORB 203 – 12/19:58 SKC 7 060/6P9

OMS TANK FAIL CAPABILITY:

L OMS FAILS: NO
R OMS FAILS: NO

LEAKING OMS PRPLT BURN:

L OMS LEAK: ALWAYS BURN RETROGRADE
R OMS LEAK: ALWAYS BURN RETROGRADE

OMS QUANTITIES(%)

PRE-SIMPLEX:
L OMS OX = 34.4 R OMS OX = 34.0
FU = 33.8 FU = 33.9

POST-SIMPLEX:
L OMS OX = 32.6 R OMS OX = 32.2
FU = 32.1 FU = 32.1

END OF PAGE 1 OF 2, MSG 134A

DELTA V AVAILABLE:

	PRE-SIMPLEX	POST-SIMPLEX
OMS	372 FPS	351 FPS
ARCS (TOTAL ABOVE QTY1)	35 FPS	35 FPS
TOTAL IN THE AFT	407 FPS	386 FPS
ARCS (TOTAL ABOVE QTY2)	69 FPS	69 FPS
FRCS (ABOVE QTY 1)	11 FPS	10 FPS
AFT QTY 1	75 %	74 %
AFT QTY 2	37 %	36 %

SYSTEM #	FAILURE	IMPACT	WORK AROUND
P/L	GLACIER STATUS LIGHT BLINKING/PENDING ERROR	None. Preliminary diagnosis is faulty internal temperature transducer. Glacier coldbox temperature is being maintained at -95 deg C.	N/A. Message has been cleared. No further action required unless message recurs (not expected).

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Fluid Loading:

Fluid loading water for one Entry opportunity should be pulled today. Fluid loading for a one orbit waveoff is not required to be pulled until waveoff is declared. Pulling water for fluid loading on EOM-1 will help maximize Supply Water quantities to support maximum deorbit landing opportunities.

The following is the prescription for fluid loading on entry day:

Initiate fluid loading at 1 hour before TIG. Consume 8 ounces of water or artificially sweetened (A/S) drink with two salt tablets, or 8 ounces of Chicken Consommé every 15 minutes. Fluid loading must be completed by Entry Interface (EI).

CREWMEMBER	FLUID	TOTAL # OF SALT TABLETS
CDR (Archambault)	40 oz Orange Drink w/ A/S	10 Salt Tablets
PLT (Antonelli)	24 oz Lemon-Lime Ade 16 oz Orange Ade	
MS1 (Acaba)	24 oz Water 8 oz Orange Ade	6 Salt Tablets
MS2 (Swanson)	24 oz Water 16 oz Orange Ade	6 Salt Tablets
MS3 (Arnold)	24 oz Water 16 oz Lemon-Lime Ade	6 Salt Tablets
MS4 (Phillips)	48 oz Water	12 Salt Tablets
MS5-DN (Magnus)	8 oz Water 24 oz Chicken Consommé	2 Salt Tablets

Note: Chicken Consommé is only available in 12 oz. Servings. Prepackaged volume may exceed prescribed quantity.

If there is a one orbit wave-off and fluid loading was completed on the previous deorbit attempt, then one-half of the above should be repeated by EI.

If there is a greater than one orbit wave-off or a partial fluid load was performed on the previous deorbit attempt then the entire protocol above should be repeated.

Anti-G Suit Operations:

Anti-G suits must be inflated to 0.5 psi (one click) at or near entry interface and to at least 1.0 psi (two clicks) at one G.

Dosimeter Reminder:

Please ensure that all dosimeters are stowed in your ACES suits.

MSG 138 - COMBO DUMP DETAILS

Today you will be dumping the waste tank followed by CWC s/n 5076. Pregather and dump details are below.

Dump Pregather Details:

Pregather the following equipment and temp stow on the middeck for the CWC dump:

a) Condensate CWC s/n 5076 (Temp Stowed)
b) Break Out Box (BOB) Locker (MF28H): Waste Water Dump (WWD) Filter
c) Contingency Hose and Cable Kit (CHCK) in the window shade bag: 8 ft Y-Y hose

Waste Water Dump

Perform a Waste dump using SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) p. 5-2. Perform steps E, G and I. MCC-H will TMBU FDA in steps B and K. After completing step I-2, you may proceed to CWC OVERBOARD DUMP (ORB OPS, ECLS) p. 5-36.

Waste dump valve open time will be ~25 minutes. Dump the waste tank to 5%.

CWC Dump

After performing the Waste dump, perform CWC OVERBOARD DUMP (ORB OPS, ECLS) p. 5-36. Perform steps A, D, E, F, and G. MCC-H will TMBU FDA in steps B and H. Dump CWC s/n 5076.

Waste dump valve open time for CWC s/n 5076 will be ~40 minutes. Term may be early if the CWC contains less condensate than expected.

Stow CWC s/n 5076 in MF71M once the dump is complete.
Stow the WWD in a separate ziplock bag in the BOB.
Stow the Y-Y hose in a separate ziplock bag in the CHCK.

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