

Flight Data File Crew Activity Plan

STS 41-F

Mission Operations Directorate
Operations Division

Basic
April 23, 1984

7:43
vs 7:33

<u>EVENT:</u>	<u>CDT</u>		
Launch	07:34	Thur	August 9
SBS Deploy	15:41	Thur	August 9
SYNCOM Deploy	08:16	Fri	August 10
TELSTAR Deploy	08:24	Sat	August 11
SPARTAN 1 Deploy	12:41	Sun	August 12
SPARTAN 1 Rndz	09:45	Tue	August 14
Crew Press Conf	06:44	Wed	August 15
Edwards AFB Ldg	08:44	Thur	August 16



National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas

FLIGHT DATA FILE

CONTROL

Ascent Checklist
Post Insertion
Crew Activity Plan
Deorbit Prep
Entry Checklist

SUPPORT

Cue Cards Book
EVA Checklist
Flight Maps and Charts Book
Orbit Operations Checklist
Payload Deploy Checklist*
Payload Operations Checklist*
PDRS Operations Checklist*
Photo/TV Checklist
Rendezvous/Proximity Operations*

OFF-NOMINAL

Ascent Pocket Checklist
Orbit Pocket Checklist
Entry Pocket Checklist
Ascent/Entry Systems Procedures
Contingency Deorbit Prep
Contingency EVA Operations
In-Flight Maintenance Checklist
Medical Checklist
Payload Systems Data and Malfunction Procedures*
Malfunction Procedures

REFERENCE

Data Processing System Dictionary
Reference Data
Systems Data

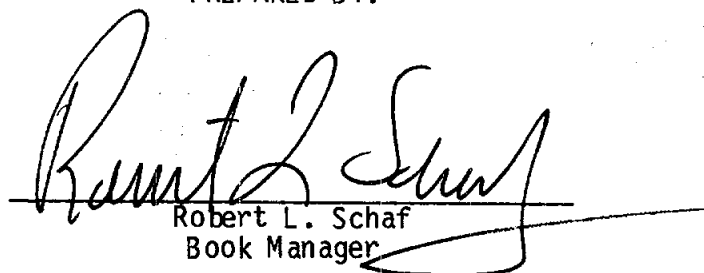
*If required

MISSION OPERATIONS DIRECTORATE


STS 41-F CREW ACTIVITY PLAN


BASIC
April 23, 1984

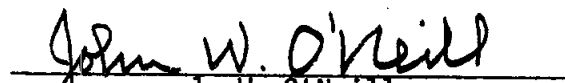
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This document is under the configuration control of the Crew Procedures Control Board (CPCB). All proposed changes must be submitted on standard JSC Form 482 to DH4/R. D. Snyder, Bldg 4, Rm 352, 713-483-2868.

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ACKNOWLEDGMENTS

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CHANGE CONTROL RECORD

STS 41-F Crew Activity Plan

CONTROL NO.	FDF EDITION INCORPORATED*		DISAPPROVED OR OTHER DISPOSITION
	TITLE	DATE	
	BASIC	04/23/83	

*482 changes incorporated into current edition only are identified by change bars.

STS 41-F CREW ACTIVITY PLAN

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3-4.....	41-F/BAS	6-13.....	41-F/BAS
3-5.....	41-F/BAS	6-14.....	41-F/BAS
3-6.....	41-F/BAS	6-15.....	41-F/BAS
3-7.....	41-F/BAS	6-16.....	41-F/BAS
3-8.....	41-F/BAS	6-17.....	41-F/BAS
3-9.....	41-F/BAS	6-18.....	41-F/BAS
3-10.....	41-F/BAS	7-1.....	41-F/BAS
3-11.....	41-F/BAS	7-2.....	41-F/BAS
3-12.....	41-F/BAS		
3-13.....	41-F/BAS		
3-14.....	41-F/BAS		
3-15.....	41-F/BAS		
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DAP Book Front Cover.....	6-4	41-F/O/BAS
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DAP A TOC.....	6-5	41-F/O/BAS
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A1.....	6-5	41-F/O/BAS
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DAP A4.....	6-7	41-F/O/BAS
A4.....	6-7	41-F/O/BAS
DAP A5.....	6-7	41-F/O/BAS
A5.....	6-7	41-F/O/BAS
DAP A6.....	6-8	41-F/O/BAS
A6.....	6-8	41-F/O/BAS
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A7.....	6-8	41-F/O/BAS
DAP A8.....	6-9	41-F/O/BAS
A8.....	6-9	41-F/O/BAS
DAP A9.....	6-9	41-F/O/BAS
A9.....	6-9	41-F/O/BAS
DAP A10.....	6-10	41-F/O/BAS
A10.....	6-10	41-F/O/BAS
DAP A11.....	6-10	41-F/O/BAS
A11.....	6-10	41-F/O/BAS
Blank.....	6-11	41-F/O/BAS
DAP B TOC.....	6-11	41-F/O/BAS
DAP B1.....	6-11	41-F/O/BAS
B1.....	6-11	41-F/O/BAS
DAP B2.....	6-12	41-F/O/BAS
B2.....	6-12	41-F/O/BAS
DAP B3.....	6-12	41-F/O/BAS
B3.....	6-12	41-F/O/BAS
DAP B4.....	6-13	41-F/O/BAS
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DAP B7.....	6-14	41-F/O/BAS
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INTRODUCTION

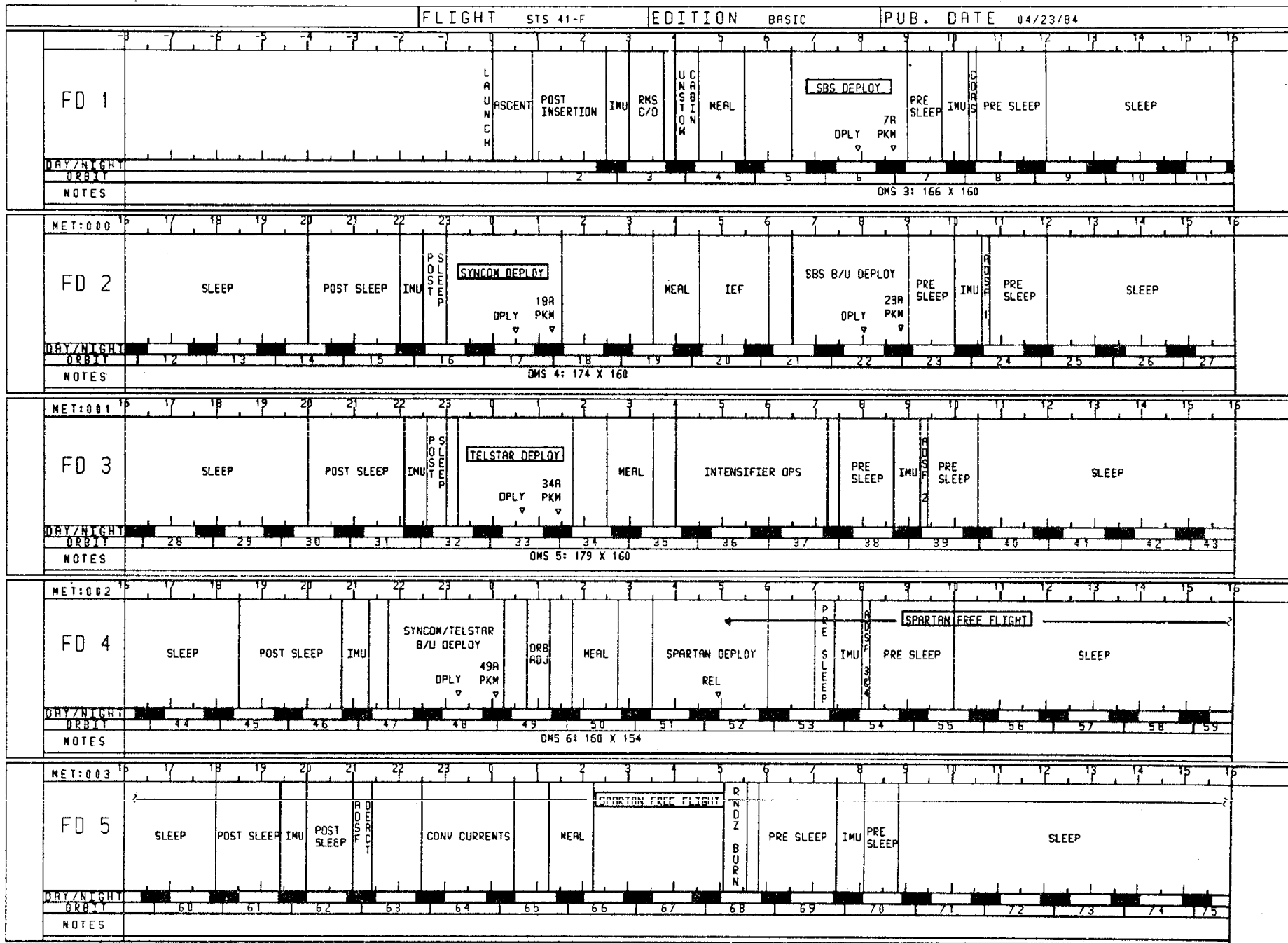
The STS 41-F Crew Activity Plan is the flight data file article that contains the on-orbit timeline. It does not contain the detailed timelines that are covered in the Ascent, Post Insertion, Rendezvous, Deorbit Prep, and Entry checklists. The STS 41-F Rendezvous Book contains all RMS and SPARTAN procedures which are to be conducted during the rendezvous operational timelines. All other RMS procedures are in the PDRS OPS Checklist. All other SPARTAN procedures are in the PAYLOAD OPS Checklist. For continuity, the entire flight is shown in the summary level timeline.

The section entitled 'Crew Activity Plan Notes (constraints and guidelines)', included in CAPs for previous flights, will be published in a generic document (not in individual CAPs).

This on-orbit timeline satisfies the objectives specified in the Flight Definition and Requirements Directive and the requirements of the STS 41-F Flight Requirements Document.

The flight profile (Cycle 1 trajectory data) used for this Crew Activity Plan is for a launch date of August 9, 1984, at 12:43 GMT.

STS 41-F OVERVIEW



MET:004	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FD 6	SLEEP	POST SLEEP	IMU	SPARTAN FREE FLIGHT										RENDZVOUS	GRAPPLE	IMU	PRE SLEEP	SLEEP							
DAY/NIGHT	[Day/Night Cycle]																								
ORBIT	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91								
NOTES																									
MET:005	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FD 7	SLEEP	POST SLEEP	IMU	POST SLEEP	FCS C/D	FOR HOUT	CREW CONF	MEAL	CABIN STOW							IMU	PRE SLEEP	SLEEP							
DAY/NIGHT	[Day/Night Cycle]																								
ORBIT	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106									
NOTES																									
MET:006	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FD 8	SLEEP	POST SLEEP	IMU	POST SLEEP	PLB OPS	DEORBIT PREP		DEORBIT BURN	EDM LANDING																
DAY/NIGHT	[Day/Night Cycle]																								
ORBIT	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122									
NOTES																									
MET:007	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DAY/NIGHT	[Day/Night Cycle]																								
ORBIT	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138									
NOTES																									
MET:008	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DAY/NIGHT	[Day/Night Cycle]																								
ORBIT	139	140	141	142	143	144	145	146																	
NOTES																									

SUMMARY TIMELINE

SUMMARY TIMELINE

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/ OGY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
222:09:43/ 222:21:43	000:03:00/ 000:09:00	222:04:43/ 222:16:43	01/ 222 CDT	4.1	☉	AUGUST 9, 1984	STS 41-F	BASIC	04/23/84
CDT : 222 FD : 001 MET : -01									
CDR									
PLT									
MS1									
MS2									
MS3									
DAY/NIGHT									
DRBIT									
GSTON COVERAGE									
TORS E M									
NOTES:									

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
222:21:43/ 223:09:43	000:09:00/ 000:21:00	222:16:43/ 223:04:43	01/ 222 CDT	5.3	☉	AUGUST 9, 1984	STS 41-F	BASIC	04/23/84
CDT : 222									
FD : 001									
MET : 000						CDT:223			FG : 02
CDR	ZLV MNV R	ZLV MNV R							
PLT									
MS1		PRE SLEEP ACT				SLEEP			POST SLEEP ACT
MS2									
MS3	VTR P S	P/TV SETUP							
DAY/NIGHT									
ORBIT	7	8	9	10	11	12	13	14	
GSTDN COVERAGE	-GMM -HAM -AGO -ACN	-GMM -AGO -ACN	-GMM -AGO -ACN -DKR	-GMM -AGO -DKR	-GMM -AGO -DKR	-DKR -MAD	-DKR -MAD	-BDR -DKR -MAD	-YAR -DKR -MAD
TORS E M									MIL
NOTES:	-ZLV, -YVV	0 -ZLV, -YVV							
		0 AFT STATION							

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
223:09:43/ 223:21:43	000:21:00/ 001:09:00	223:04:43/ 223:16:43	02/ 223 CDT	7.0	☉	AUGUST 10, 1984	STS 41-F	BASIC	04/23/84
CDT : 223									
FD : 002									
MET : 000									
<p>5 6 7 8 9 10 11 12 13 14 15 16</p> <p>MET:001</p> <p>21 22 23 0 1 2 3 4 5 6 7 8 9</p>									
CDR									
PLT									
MS1									
MS2									
MS3									
DAY/NIGHT									
ORBIT	15	16	17	18	19	20	21	22	
GSTON COVERAGE	MIL BDR -DKR	-DKR -YAR	-YAR -HAW --GOS -MIL BDR -DKR	-HAW -BOT -YAR -HAW --GOS -MIL BDR -DKR	-HAW -BOT -YAR -HAW --GOS -MIL BDR -DKR	-HAW -BOT -YAR -HAW --GOS -MIL BDR -DKR	-HAW -BOT -YAR -HAW --GOS -MIL BDR -DKR	-HAW -BOT -YAR -HAW --GOS -MIL BDR -DKR	-HAW -BOT -YAR -HAW --GOS -MIL BDR -DKR
TORS									
NOTES:	<ul style="list-style-type: none"> ● -ZLV, -YVU ● -ZLV, -YVU ● DSO 0447 BLOOD SAMPLES; FREEZER SETUP ● DSO 0448 ECHOCARDIOGRAPH ● DSO 0440 VISUAL PERFORMANCE TEST ● DSO 0445 THORACIC IMPEDANCE ● ACTIVATE BOTH IEF EXPERIMENTS ● DSO 0446 LEG PLETHYSMOGRAPHY ● DSO 0439 DOCUMENTATION OF ACTION OF METACLOPRIMIDE ● DSO 040B NEAR VIS ACUITY AND SENSITIVITY 								

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE	
223:21:43 / 224:09:43	001:09:00 / 001:21:00	223:16:43 / 224:04:43	02 / 223 CDT	8.8	☉	AUGUST 10, 1984	STS 41-F	BASIC	04/23/84	
CDT : 223 FD : 002 MET : 001						CDT:224			FD : 03	
CDR	I N U M N V R	Z L V M N V R								
PLT										
MS1	S P A R T A N C K	PRE SLEEP ACT			SLEEP				POST SLEEP ACT	
MS2		A D S F 1								
MS3	P/TV SETUP									
DAY/NIGHT	[Day/Night Cycle: Day (white), Night (black)]									
ORBIT	23	24	25	26	27	28	29	30		
GSTON COVERAGE	-GWM -HAM -AGO -ACN	-GWM -AGO -ACN	-GWM -AGO -ACN -DKR	-GWM -DKR	-GWM -DKR	-WAD	-BDR -DKR -WAD	-BDR -DKR -WAD	-YAR -ORR	-YAR -ORR
TORS E W	[Timeline with markers for GWM, HAM, AGO, ACN, DKR, WAD, YAR, ORR, HTI]									
NOTES:	0 -ZLV, -YVW 0 INITIATE PRUSE									

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE				
224:09:43 / 224:21:43	001:21:00 / 002:09:00	224:04:43 / 224:16:43	03 / 224 CDT	10.6	☉	AUGUST 11, 1984	STS 41-F	BASIC	04/23/84				
CDT : 224	5	6	7	8	9	10	11	12	13	14	15	16	
FD : 003				MET:002									
MET : 001	21	22	23		1	2	3	4	5	6	7	8	9
CDR		I M U N N V R	Z L V M N V R	D P L Y A T T	D E P L O Y	M I N D D O M P R D	P K M	Z L V M N V R	L O A D D E C K				I M U N N V R
PLT				M N V R				M E A L P R E P			H R M D E A C T		
MS1	POST SLEEP ACT				TELSTAR DEPLOY								
MS2													
MS3													
DAY/NIGHT													
ORBIT	31	32	33	34	35	36	37	38					
GSTDN COVERAGE	-NIL -BDA -DKR	-BDA -DKR -BOT	-BDA -DKR -ACN -BOT	-GDS -NIL -BOA	-GDS -NIL -ACN -BOT	-GWN -HAW -AGO -BOT	-GWN -HAW -AGO -BOT	-ACN					
TORS													
NOTES:		0 -ZLV, -YVV		0 +ZLV, +YVV									

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
224:21:43 / 225:09:43	002:09:00 / 002:21:00	224:16:43 / 225:04:43	03 / 224 CDT	12.5	☉	AUGUST 11, 1984	STS 41-F	BASIC	04/23/84
CDT : 224 FD : 003 MET : 002						CDT:225	FD : 04		
CDR	Z L V R U N M N V R								I N U M N V R
PLT									
MS1	PRE SLEEP ACT		SLEEP						POST SLEEP ACT
MS2	R D S F 2								
MS3									
DAY/NIGHT	[Day/Night Cycle: 39 (Night), 40 (Day), 41 (Night), 42 (Day), 43 (Night), 44 (Day), 45 (Night), 46 (Day)]								
ORBIT	39	40	41	42	43	44	45	46	
GSTON COVERAGE	-GMM -HAW	-AGO -ACN	-DKR -GMM	-AGO -DKR -ACN	-GMM	-DKR -HAW	-YAR -ORR	-DKR -HAW -YAR -ORR	-HAW -ORR
TORS		-ACN			-DKR		-HIL -RDA		-HIL -RDA -DKR
NOTES:	-ZLV, -YVV @ INITIATE PAUSE • FC PURGE HTR ON @ MANUAL • FC PURGE HTR OFF								

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
225:09:43/ 225:21:43	002:21:00/ 003:09:00	225:04:43/ 225:16:43	04/ 225 CDT	14.3		AUGUST 12, 1984	STS 41-F	BASIC	04/23/84
CDT : 225									
FD : 004									
MET : 002		MET:003							
CDR		EXERCISE		ONS BURN				INITIAL FIN SEP SEP	
PLT		EXERCISE		MEAL PREP	ONS BURN			SPARTAN DEPLOY	GRP C GAS
MS1	POST SLEEP ACT	VIS PERF	NEAR VIS & CONTRST			MEAL		EXERCISE	PRE SLEEP ACT
MS2		EXERCISE					P/TV SETUP	P/TV ACT	
MS3	EXERCISE	VIS PERF	NEAR VIS & CONTRST			ECHO		SPARTAN DEPLOY	REL
DAY/NIGHT									
ORBIT	47	48	49	50	51	52	53	54	
GSTON COVERAGE	-MIL -BDA -DKR	-BDR -DKR -ACN -YAR -HAN -GDS -MIL	-MIL -BDA -DKR -ACN -BOT -YAR -HAN -GDS	-HAN -GOS -NIL -ACN -BOT -YAR -HAN -GDS	-GOS	-BOT -GMM -HAN	-GSO -BOT -GMM -HAN	-GSO -BOT -GMM -HAN	-GMM -HAN -GSO -BOT
TDRS	E								
NOTES:	@ -ZLV, -YVV @ DSO 0440 VISUAL PERFORMANCE TEST @ DSO 0408 NEAR VIS ACUITY AND CONTRAST SENSITIVITY @ DSO 0445 THORACIC IMPEDANCE @ DSO 0446 LEG PLETHYSMOGRAPHY @ DSO 0448 ECHOCARDIOGRAPH @ DRB ADJUST - 160 X 154 @ -ZLV, -YVV @ -ZLV, -YVV @ -ZLV, -YVV @ -ZLV, -YVV @ INITIATE AUTO								

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE	
225:21:43 / 226:09:43	003:09:00 / 003:21:00	225:16:43 / 226:04:43	04 / 225 CDT	16.2		AUGUST 12, 1984	STS 41-F	BASIC	04/23/84	
CDT : 225 FD : 004 MET : 003						CDT:226	FD : 05			
CDR								I W U M N V R	Z L V M N V R	
PLT										
MS1	PRE SLEEP ACT		SLEEP						POST SLEEP ACT	
MS2										
MS3										
DRY/NIGHT										
ORBIT	55	56	57	58	59	60	61	62		
GSTDN COVERAGE	-ACN -GMM -AGO -ACN	-GMM -AGO -ACN	-DKR -GMM -DKR	-DKR -MAD	-DKR -MAD	-MAD -YAR -DKR	-YAR -DKR -MAD	-YAR -DKR -MAD	-YAR -DKR -MAD	-YAR -DKR -MAD
TORS										
NOTES:	■ -ZLV, -YVV									

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
226:06:43 / 226:18:43	003:18:00 / 004:06:00	226:01:43 / 226:13:43	05 / 226 CDT	17.6	☉	AUGUST 13, 1984	STS 41-F	BASIC	04/23/84
CDT: 226 FD: 005 MET: 003									
MET: 003 18 19 20 21 22 23 0 MET:004 1 2 3 4 5 6									
CDR									
PLT									
MS1									
MS2									
MS3									
DRY/NIGHT	[Bar chart showing day/night cycle]								
ORBIT	61	62	63	64	65	66	67	68	
GSTON COVERAGE	[Coverage diagram with labels: -MIL, -BDA, -DKR, -YAR, -MAD, -GOS, -HAW, -ACN, -BOT, -GMM, -HAW, -BOT, -GMM]								
TDRS E M	[Timeline diagram with labels: -NTI, -BDA, -MTI, -GOS]								
NOTES:	@ -ZLV, -YVV @ -ZLV, -YVV								

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE	
226:18:43 / 227:06:43	004:06:00 / 004:18:00	226:13:43 / 227:01:43	05 / 226 CDT	19.4	☉	AUGUST 13, 1984	STS 41-F	BASIC	04/23/84	
CDT : 226 FD : 005 MET : 004								CDT:227 FD:06		
CDR										
PLT										
MS1	PRE SLEEP ACT				SLEEP				POST SLEEP ACT	
MS2										
MS3										
DAY/NIGHT	[Day/Night Cycle Bar]									
ORBIT	69	70	71	72	73	74	75	76		
GSTDN COVERAGE	-BOT -GMM -HAW -AGO -ACN	-GMM -HAW -AGO -ACN	-AGO -ACN -GMM	-AGO -ACN -GMM	-DKR -ACN -GMM	-GMM -DKR	-DKR -ACN -GMM	-DKR -ACN -GMM	-DKR -ACN -GMM	-MIL -BDA -DKR -HAW -YAR -ORR
TDRS	[TDRS Coverage Bars]									
NOTES:	0 -ZLV, -YVV									

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE	
227:06:43 / 227:19:43	004:18:00 / 005:06:00	227:01:43 / 227:13:43	06 / 227 CDT	21.3		AUGUST 14, 1984	STS 41-F	BASIC	04/23/84	
CDT : 227	FD : 006	MET : 004	MET:005							
CDR	IN U M N V R	NCZ v	NH v	TI v	VBAR v	Z L V M N V R	EXERCISE			
PLT		RENDEZVOUS					EXERCISE	H R R D E F E C T		
MS1	POST SLEEP ACT					V T R S E T U P	VIS P E R F	NEAR V I S & C O N T R A S T	T I M E R E C O R D I N G S	
MS2			M E A L P R E P	M E A L			EXERCISE	T I M E R E C O R D I N G S	L E G M E A S U R E M E N T S	
MS3		P/TV S E T U P	E C H O	EXERCISE	M E A L		RENDEZVOUS G R A P P L E v	VIS P E R F	NEAR V I S & C O N T R A S T	T I M E R E C O R D I N G S
DAY/NIGHT										
ORBIT	77	78	79	80	81	82	83	84		
GSTDN COVERAGE	-MIL -BDA -DKR -HAD	-BDA -DKR	-YAR -GRR	-BDA -DKR -ACN -BOT	-MIL -BDA -DKR -ACN	-HAW -GDS -MIL -ACN -BOT	--GDS -ACN -BOT	-GMM -HAW	-HAW -ACN	
TDRS	E M	-MTI	-MTI	-GDS	-HAW	-YAR -GMM	-HAW	-BOT	-GMM	
NOTES:	* DSO 0448 ECHOCARDIOGRAPH				* -ZLV, -YVV					* DSO 0440 VISUAL PERFORMANCE TEST * DSO 0408 NEAR VIS ACUITY AND CONTRAST SENSITIVITY * DSO 0445 THORACIC IMPEDANCE * DSO 0446 LEG PLETHYSMOGRAPH

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE	
227:18:43 / 228:06:43	005:06:00 / 005:18:00	227:13:43 / 228:01:43	06 / 227 CDT	23.1		AUGUST 14, 1984	STS 41-F	BASIC	04/23/84	
CDT : 227 FD : 006 MET : 005									CDT:228 FD:07	
CDR	I M U M N V R	Z L V M N V R								
PLT										
MS1	PRE SLEEP ACT				SLEEP				POST SLEEP ACT	
MS2										
MS3										
DAY/NIGHT										
ORBIT	85	86	87	88	89	90	91	92		
GSTDN COVERAGE	--BOT -GWM -HAN	-RCN -RCN	-GWM -RCN -DKR	-RCN -DKR	-DKR -MAD		-DKR -MAD	-MIL -BDA -DKR -MAD	-YAR -DRR	
TORS E M										
NOTES:	0 -ZLV, -YVV									

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE		
228:06:43 / 228:18:43	005:18:00 / 006:06:00	228:01:43 / 228:13:43	07/ 228 CDT	24.9		AUGUST 15, 1984	STS 41-F	BASIC	04/23/84		
CDT : 228	FD : 007	MET : 005	MET:006								
CDR	I M U M N V R	Z L V M N V R	FCS C/O	R F C I S R E H O T	TRK M N V R	Z L V M N V R	CABIN STOW	EXERCISE	CABIN STOW		
PLT			FCS C/O	R F C I S R E H O T			L R M P / S M O K K E	CABIN STOW	EXERCISE	CABIN STOW	STOW ENCLOSURE GRP E GAS
MS1	POST SLEEP ACT				C O N F E R E N C E		MEAL	CABIN STOW	EXERCISE	CABIN STOW	
MS2			EXERCISE					L R M P / S M O K K E	CABIN STOW		
MS3		EXERCISE		P / T V S E T U P	P / T V A C T		MEAL P R E P		CABIN STOW		
DAY/NIGHT											
ORBIT	93	94	95	96	97	98	99	100			
STATION COVERAGE	MIL BDR DKR	DKR YAR ORR	YAR HAM GDS NIL BDR	ACN BOT YAR HAM GDS MIL BDR	ACN BOT YAR HAM GDS MIL BDR	ACN BOT YAR HAM GDS MIL BDR	ACN BOT YAR HAM GDS MIL BDR	ACN BOT YAR HAM GDS MIL BDR	ACN BOT YAR HAM GDS MIL BDR	ACN BOT YAR HAM GDS MIL BDR	
TDRS E M											
NOTES:	• -ZLV, -YVW • RPU HTR ACT • -ZLV, -YVW										

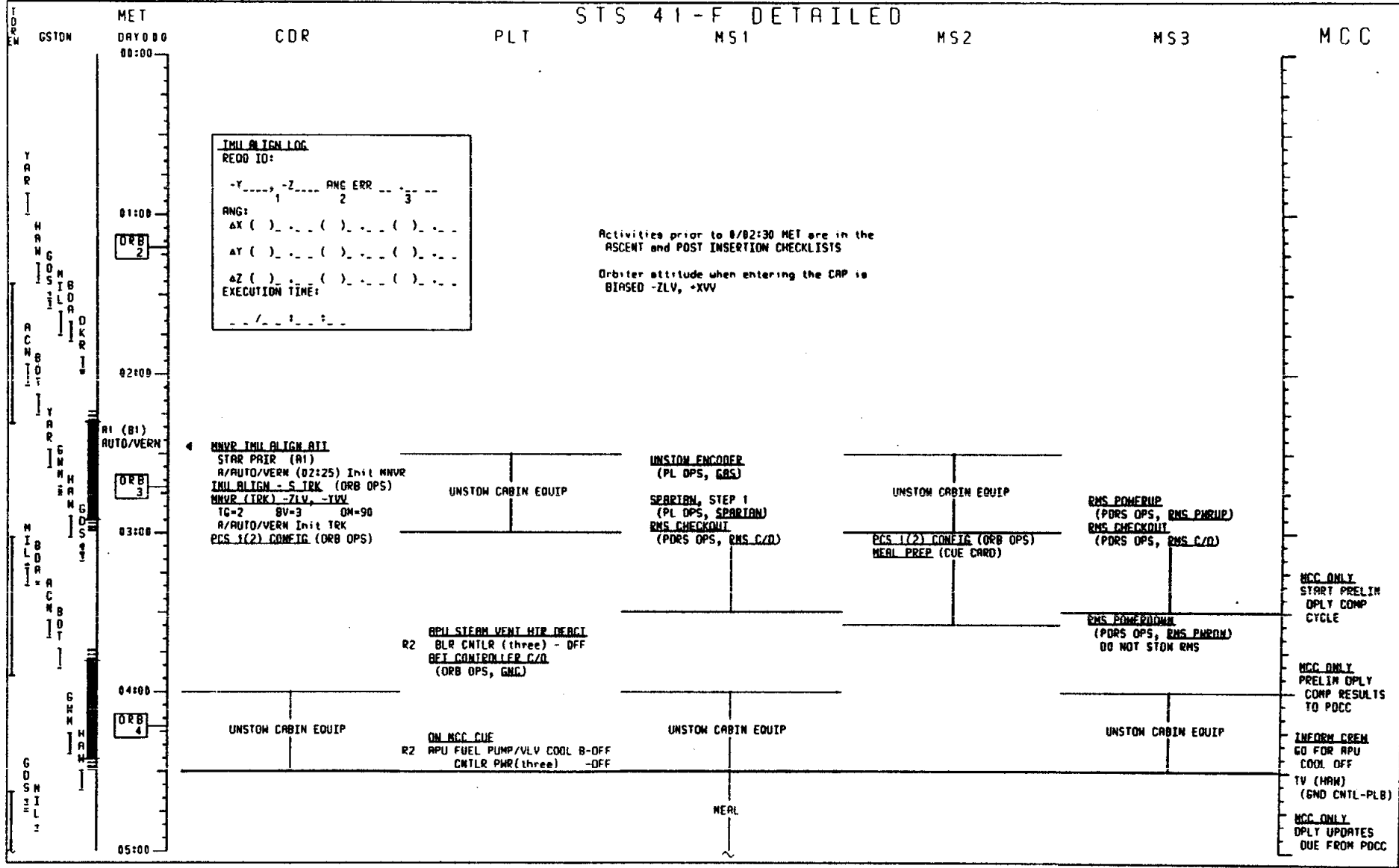
GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE	
228:18:43/ 229:06:43	006:06:00/ 006:18:00	228:13:43/ 229:01:43	07/ 228 CDT	26.7		AUGUST 15, 1984	STS 41-F	BASIC	04/23/84	
CDT : 228										
FD : 007										
MET : 006								CDT:229	FD : 08	
CDR	I M U M N V R	Z L V M N V R								
PLT										
MS1		PRE SLEEP ACT			SLEEP				POST SLEEP ACT	
MS2										
MS3										
DAY/NIGHT										
ORBIT		101	102	103	104	105	106	107	108	
GSTON COVERAGE	-GMM -HAN	-AGO -ACN	-GMM	-AGO -ACN -DKR	-GMM	-DKR	-WAD	-BDA -DKR -WAD	-BDA -DKR -WAD	-YAR -ORR
TORS										
NOTES:	0 -ZLV, -YVW									

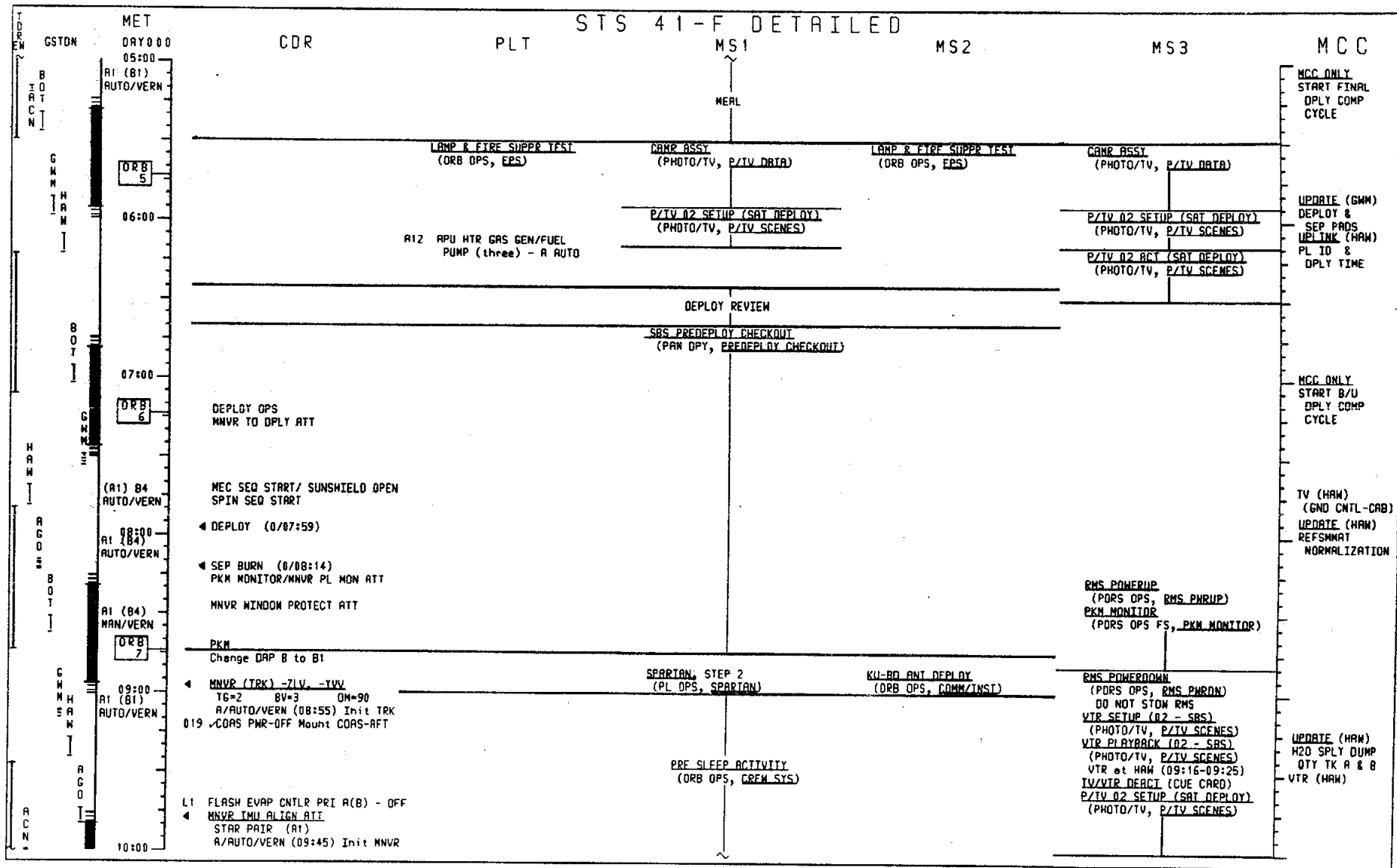
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229:06:43 / 229:18:43	006:18:00 / 007:06:00	229:01:43 / 229:13:43	08 / 229 CDT	28.4		AUGUST 16, 1984	STS 41-F	BASIC	04/23/84
TIG -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 MET:007 FD : 008 MET : 006									
CDR	I N U M N V R	X S I M N V R		PLBD OPS					
PLT			R A D B Y P	PLBD OPS					
MS1		POST SLEEP ACT			DEORBIT BURN				
MS2			C L E A N U P			E O W L A N D I N G (7/01:01)			
MS3									
DAY/NIGHT									
ORBIT	109	110	111	112	113	114	115	116	
GSTDN COVERAGE	ORR -MIL -BDA -DKR	-MIL -BDA -DKR -ACN -BOT	-GDS -MIL -BDA -DKR -ACN -BOT	-GWH -HAW -GDS -MIL -BDA -ACN -BOT	-GWH -HAW -GDS -MIL -ACN -BOT	-HAW	-BOT -GWH -HAW -AGO	-AGO	-HAW -AGO
TDRS E W									
NOTES:	<ul style="list-style-type: none"> • HI LOAD HTR ON ⊗ FES CNTLR CHECK △ SPARTAN DEORB CONF ● SBS, TLS ▽ SYNCOM HTR DEACT 								

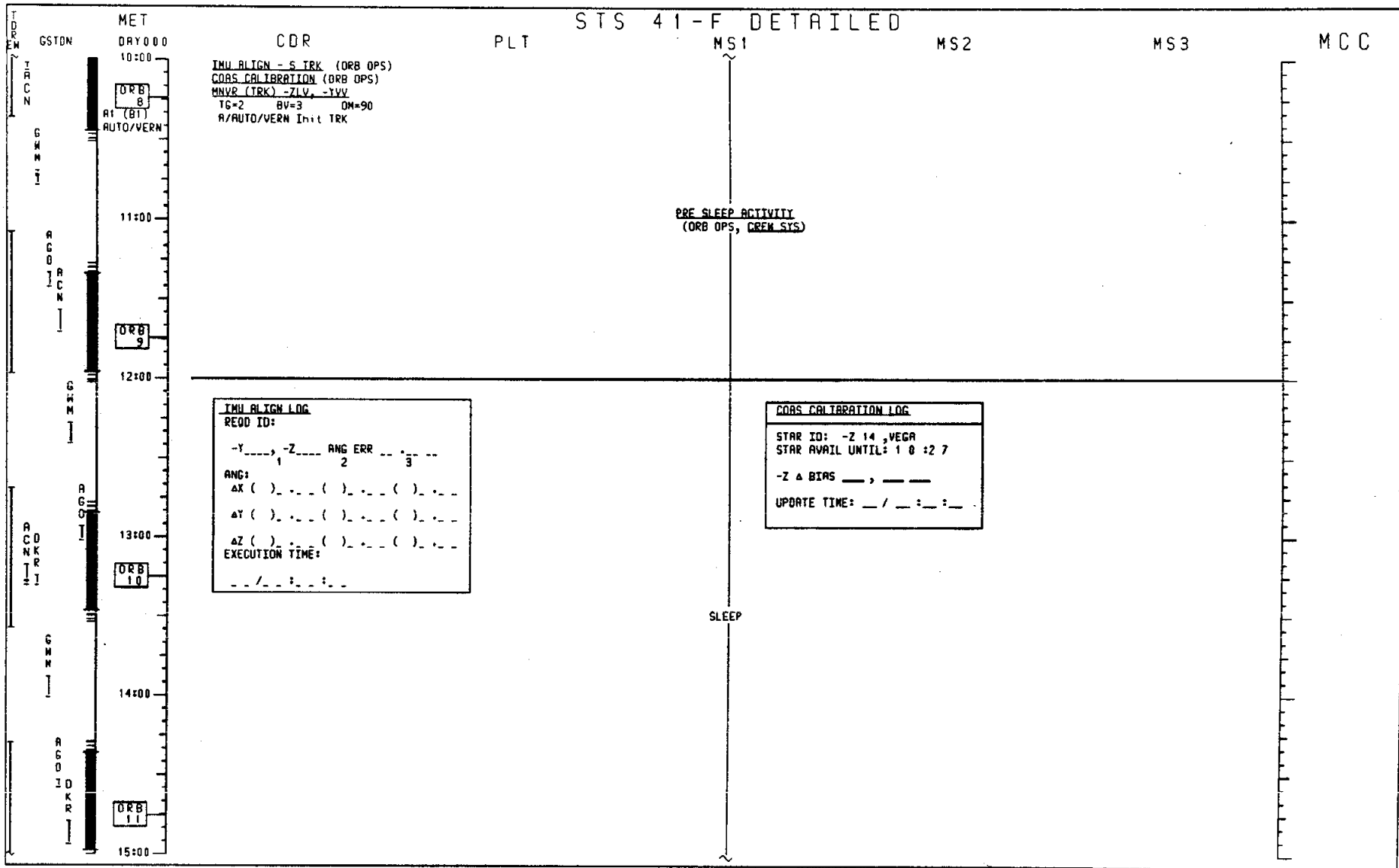
DETAILED TIMELINE

DETAILED
TIMELINE

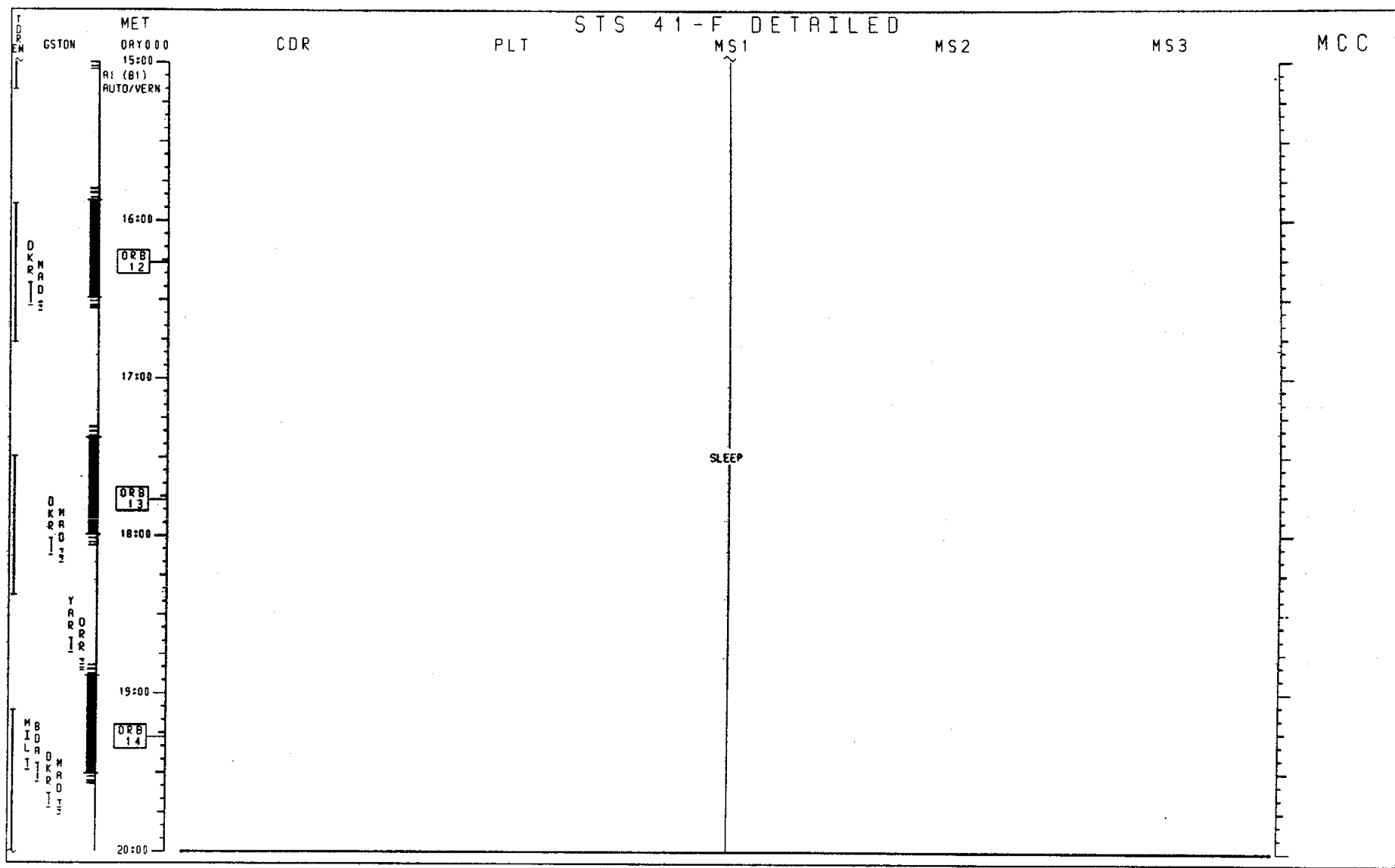
DETAILED TIMELINE

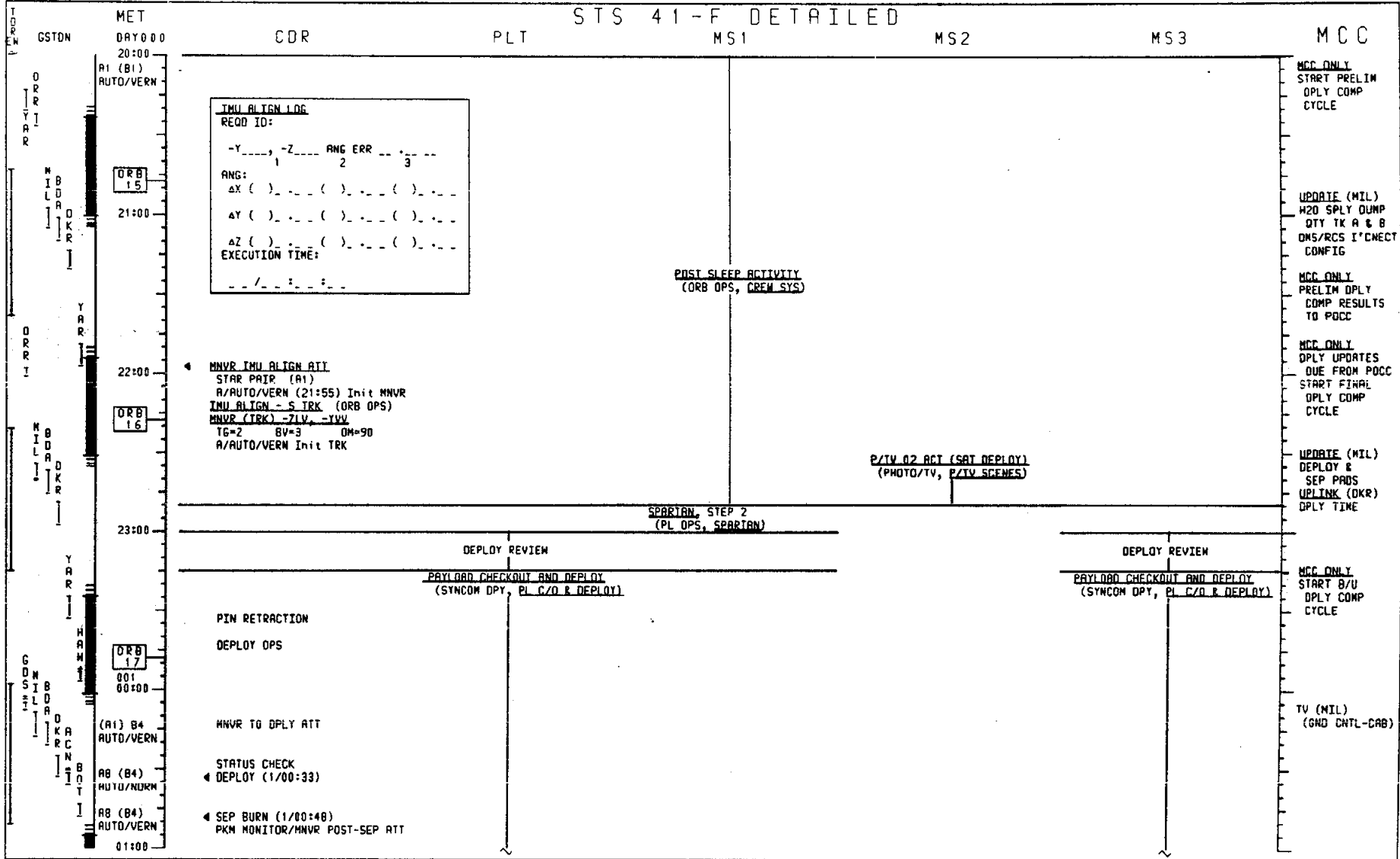


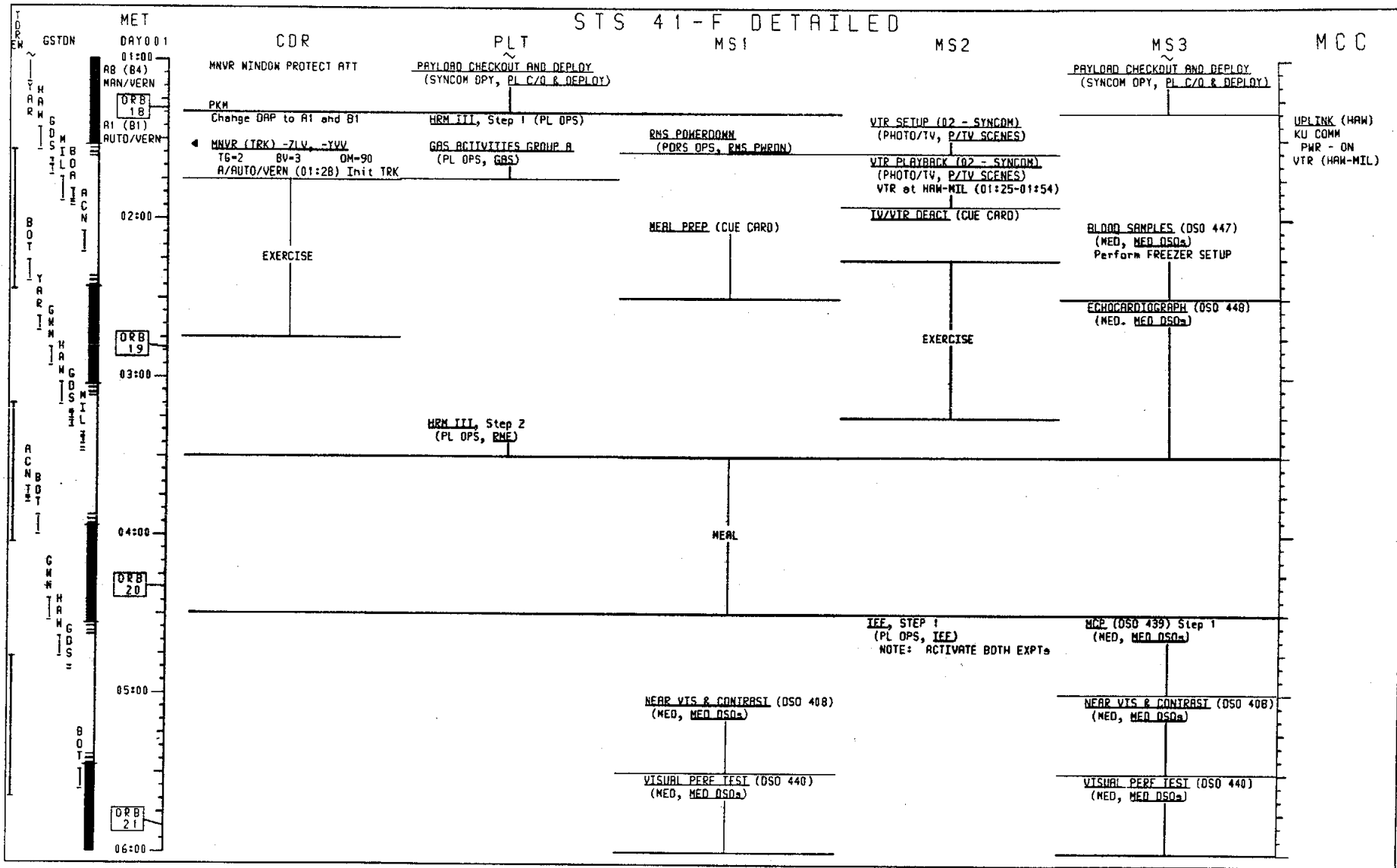


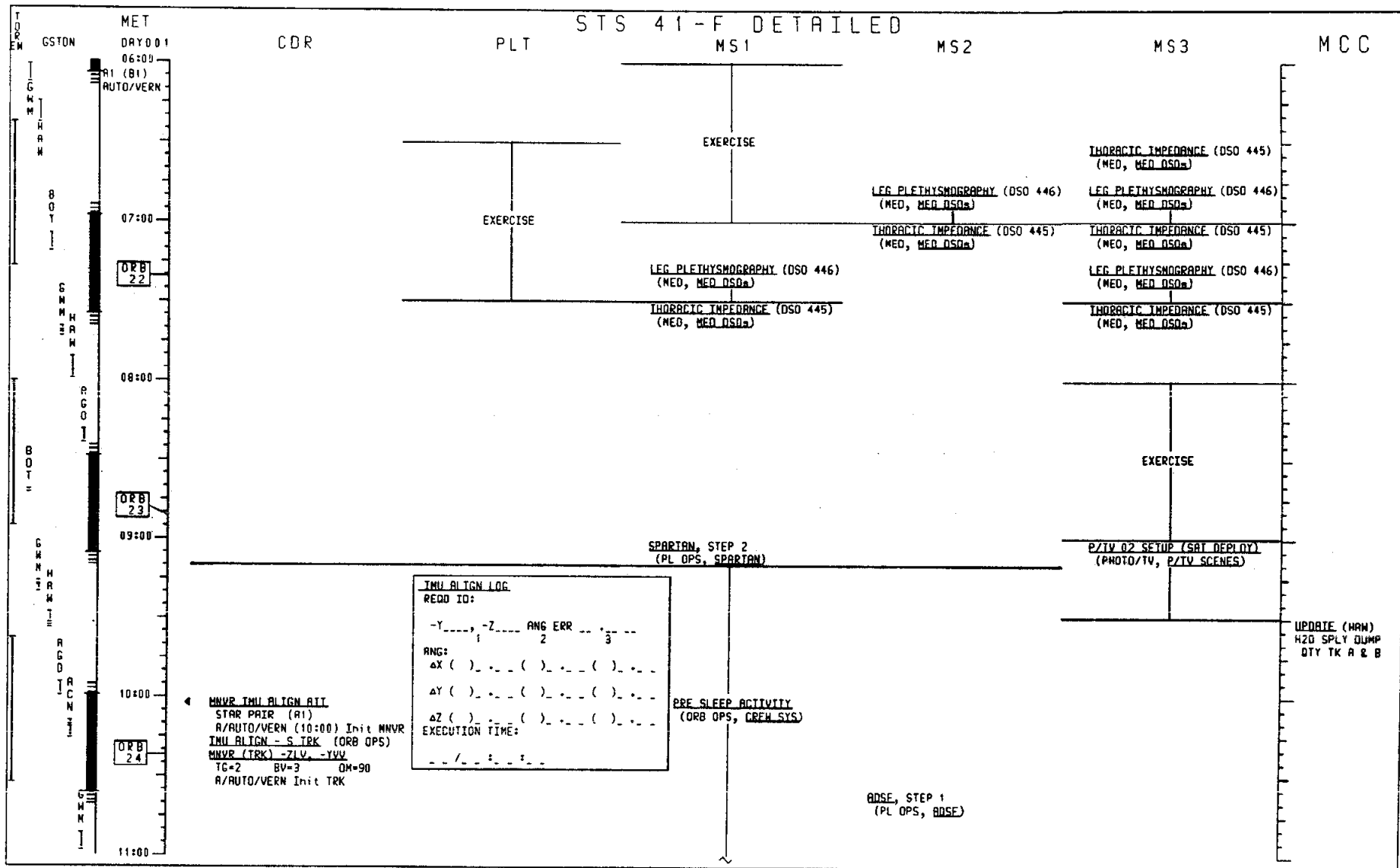


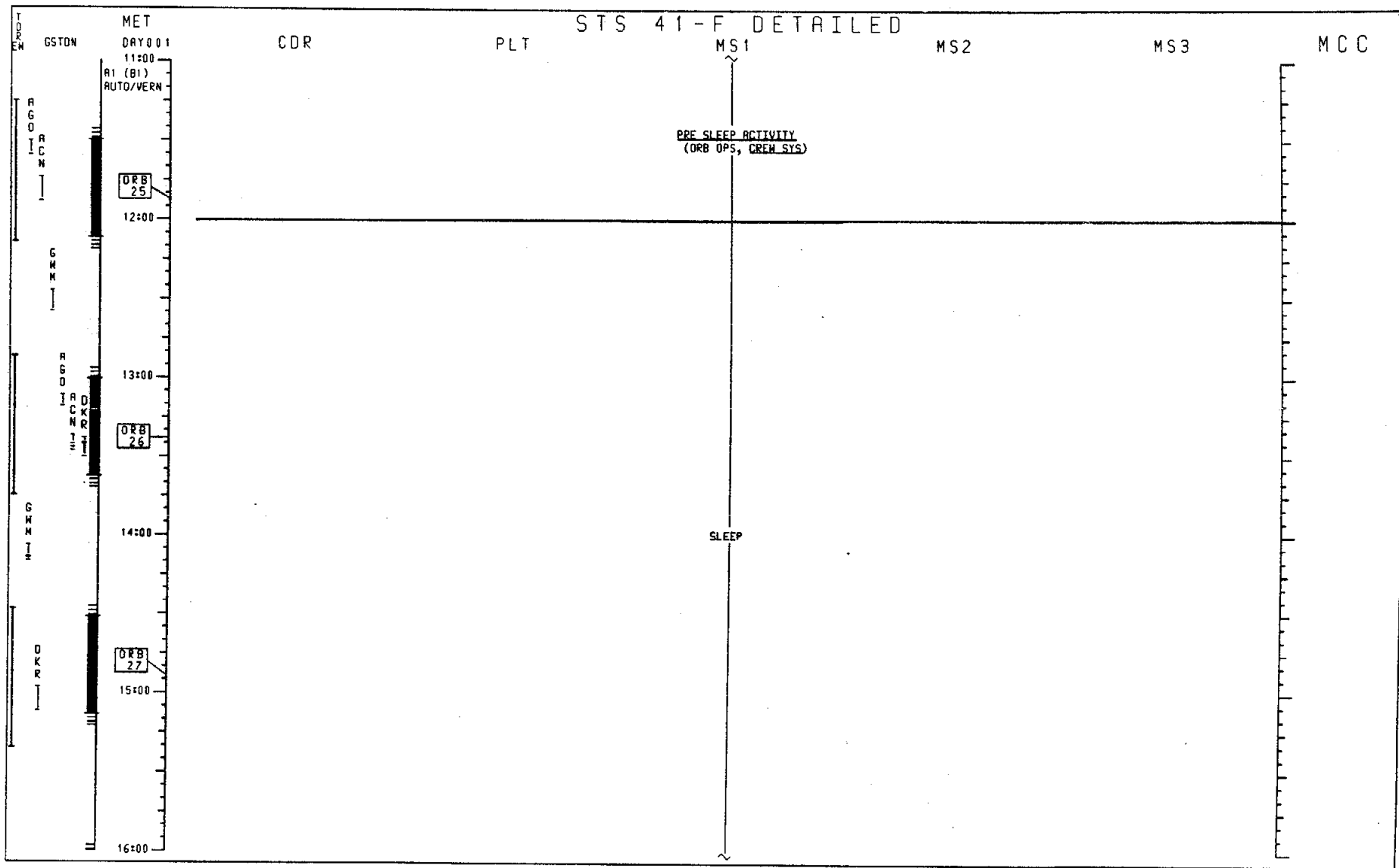
STS 41-F DETAILED

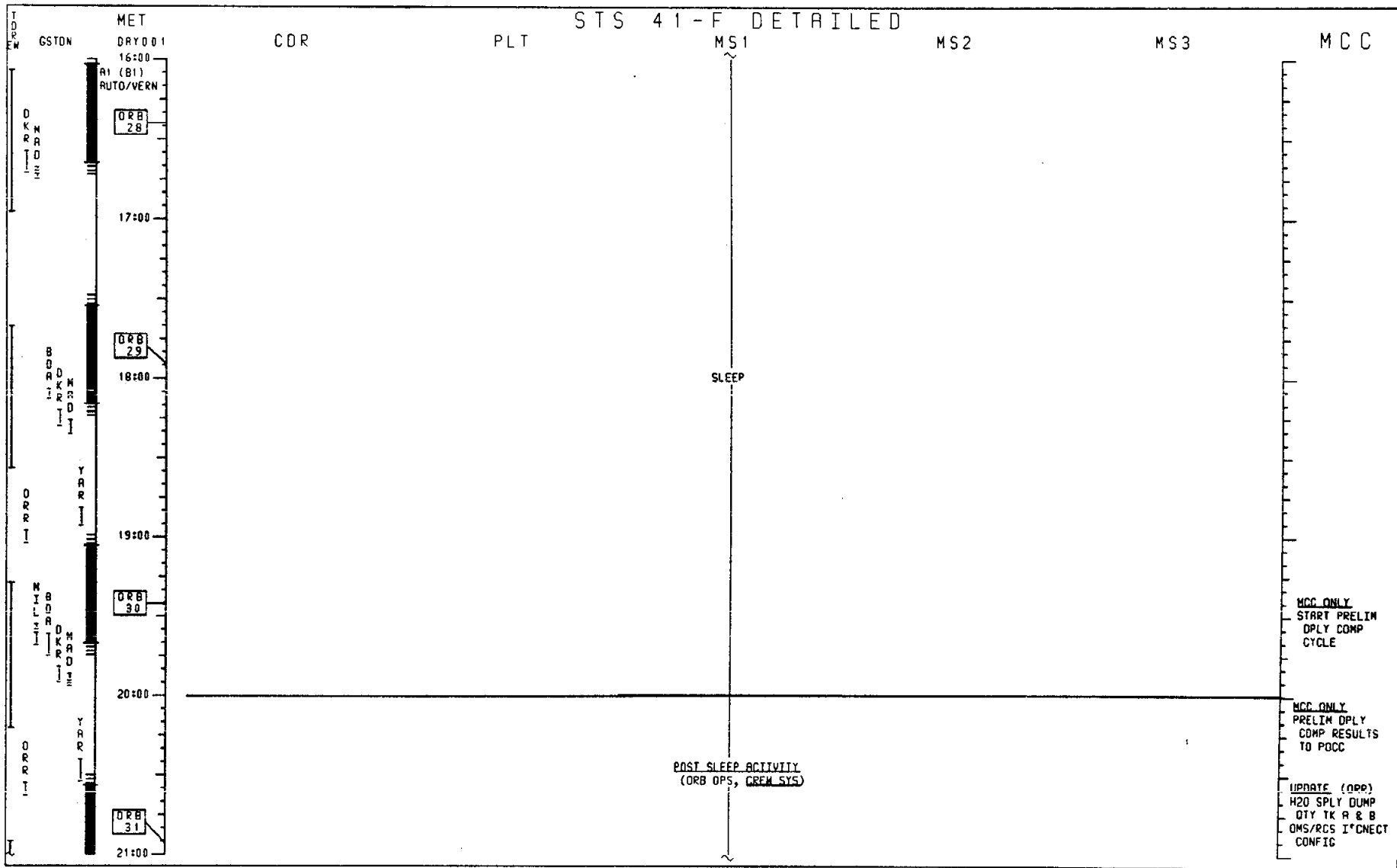


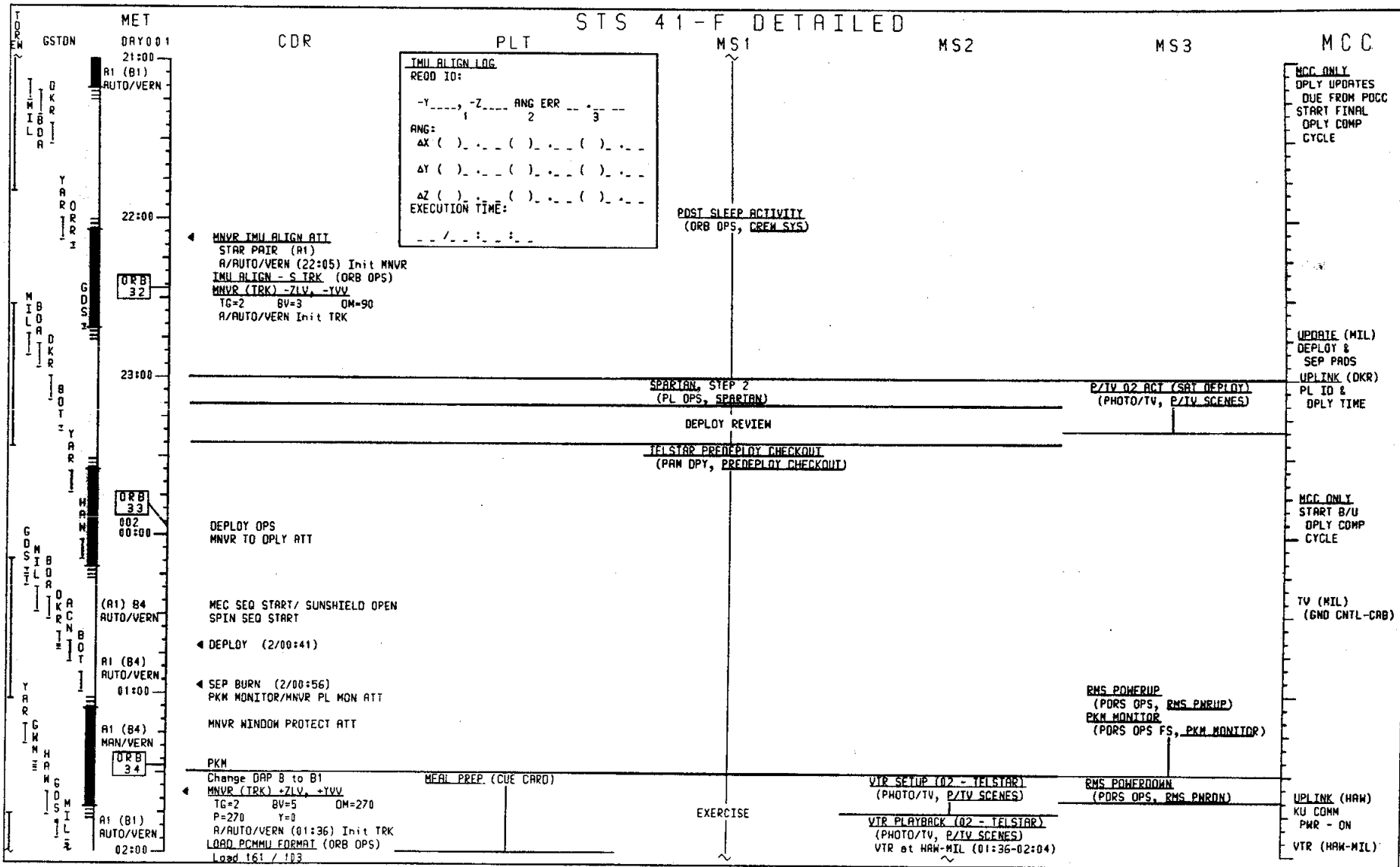


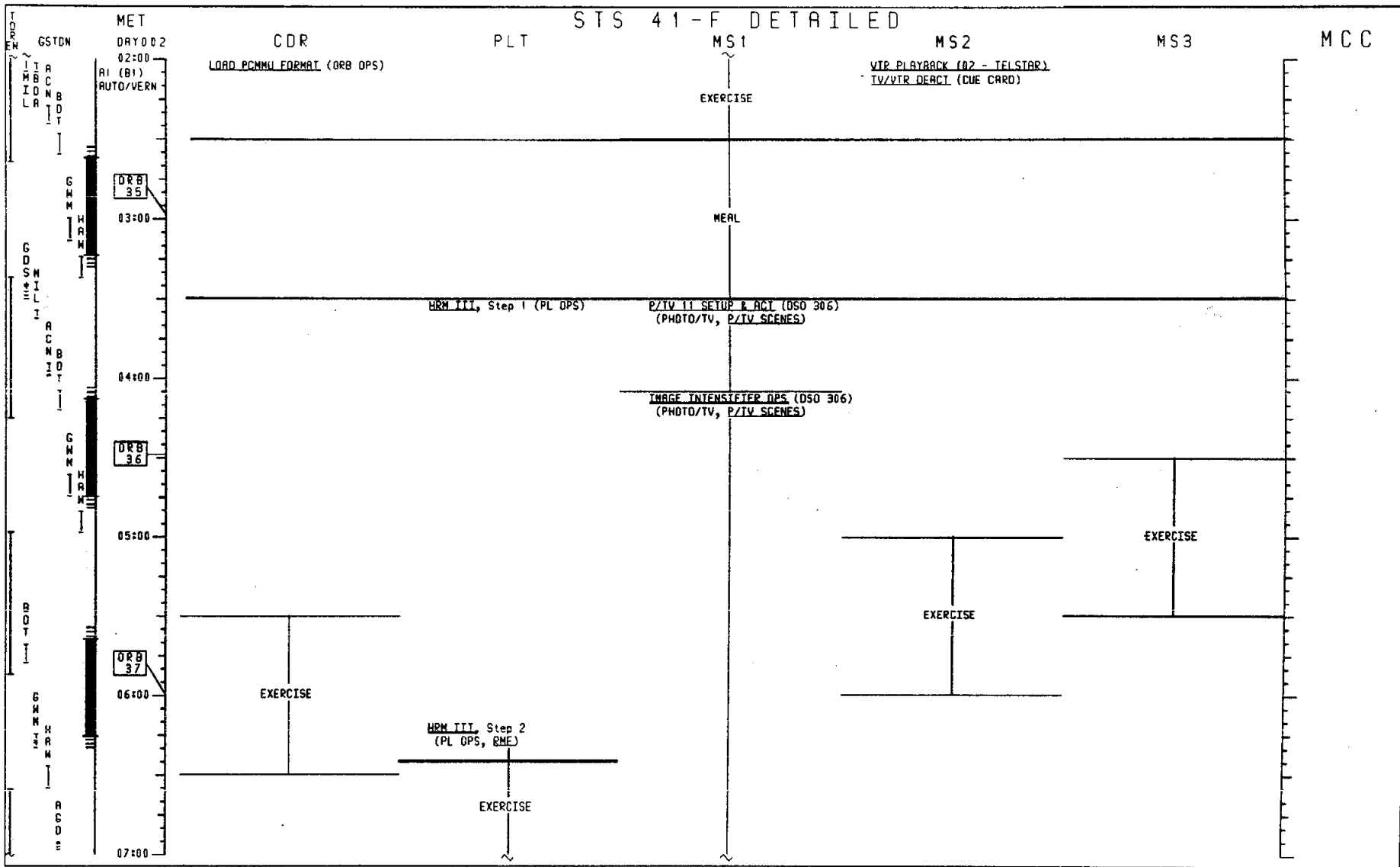


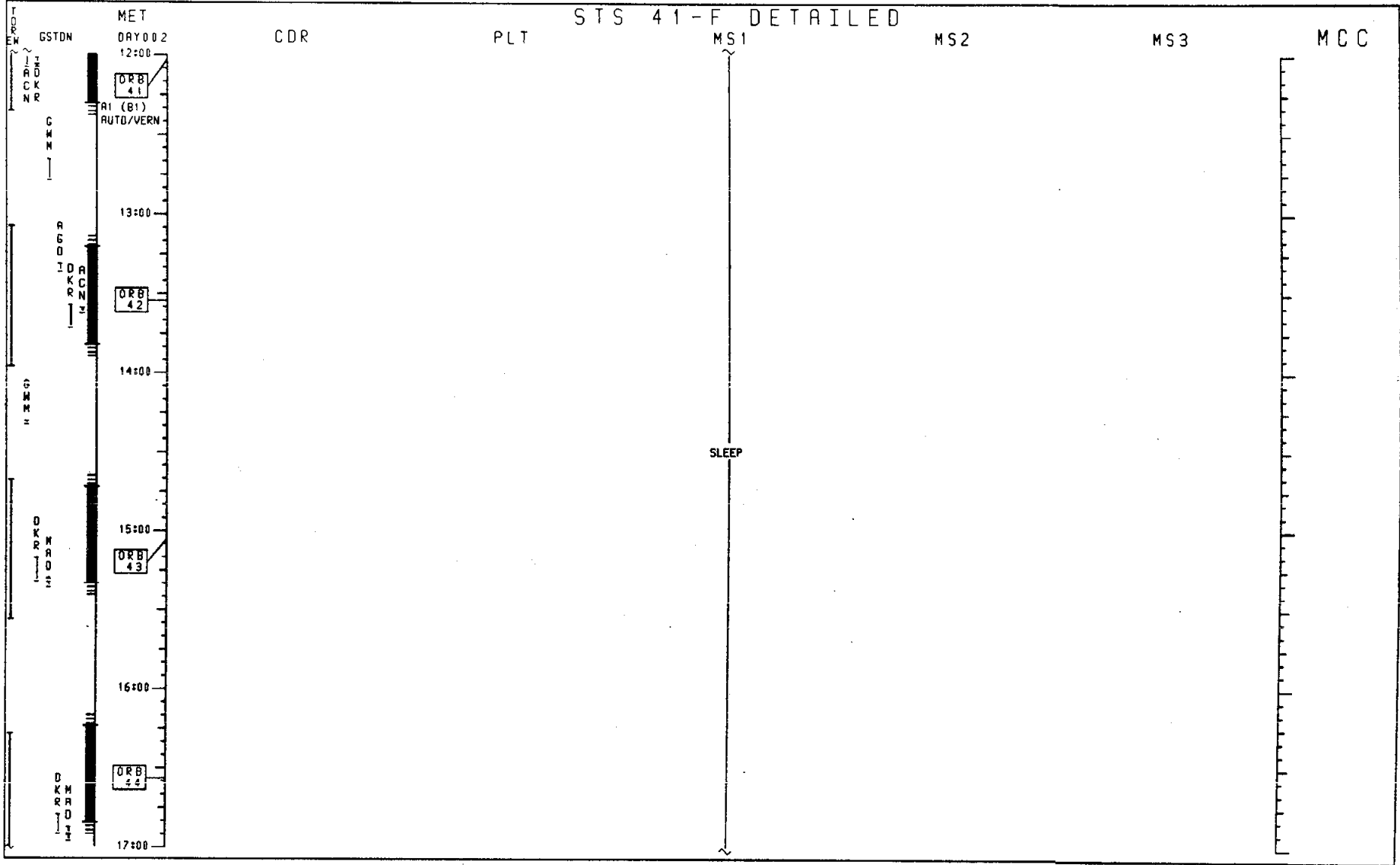


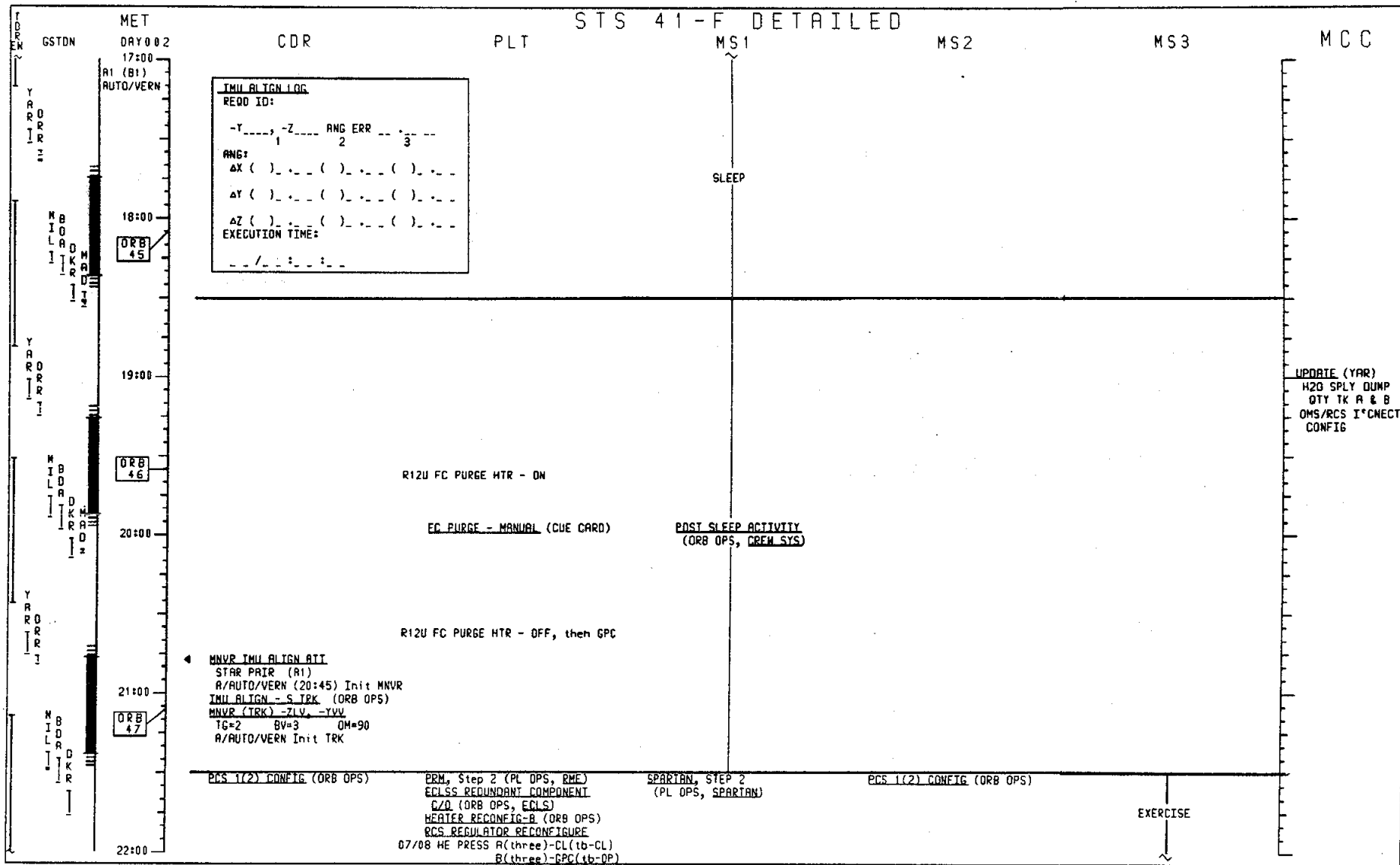


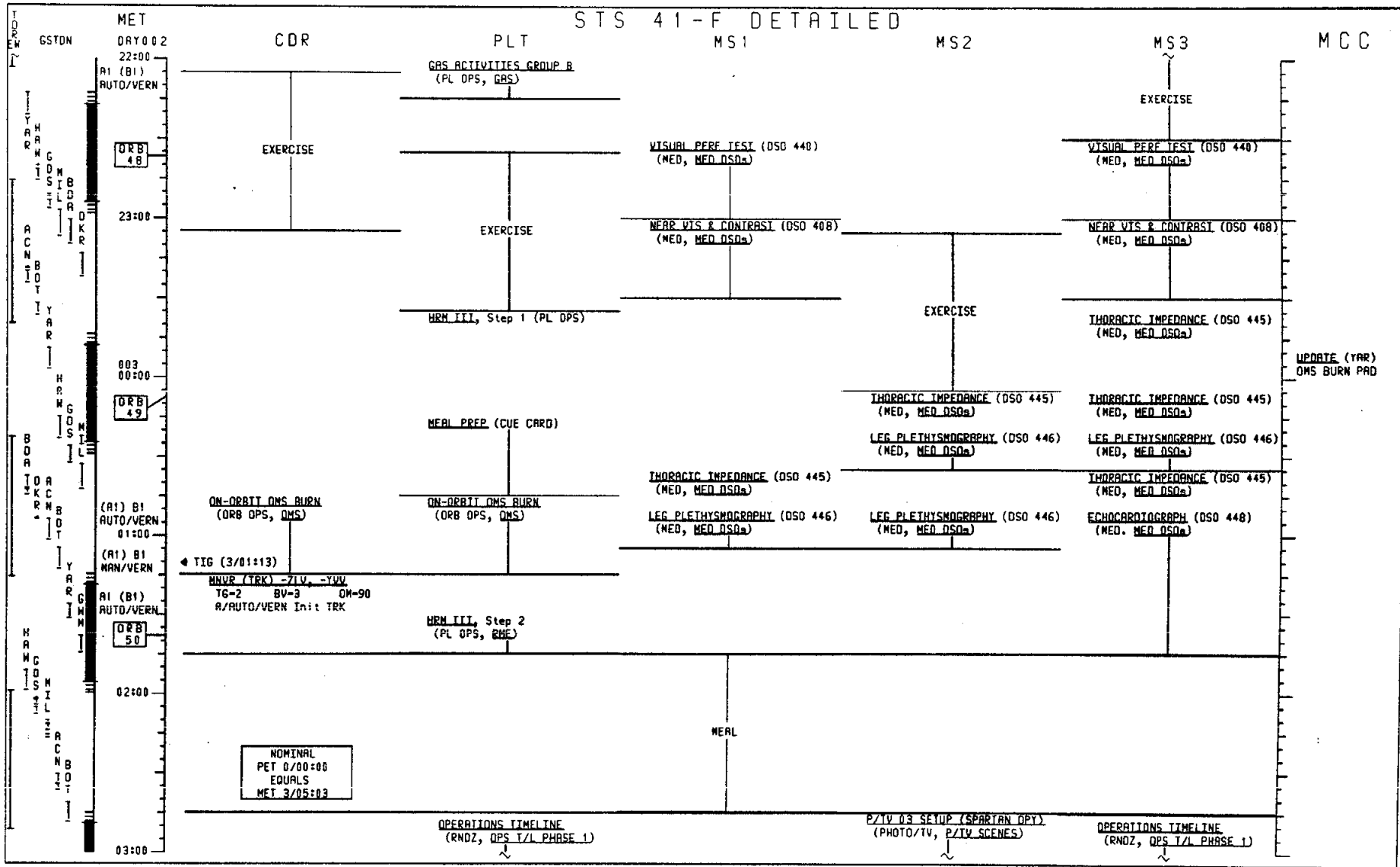


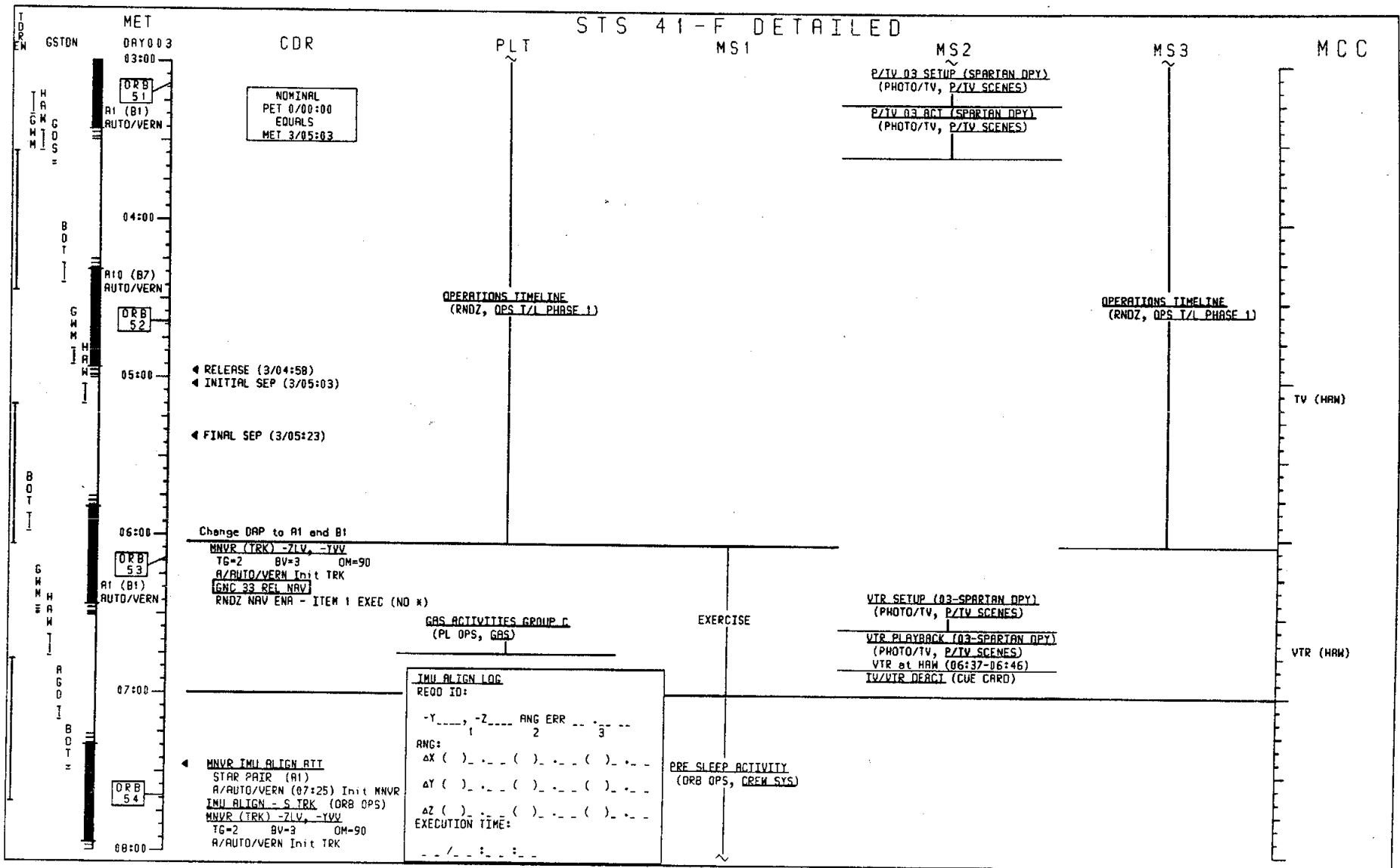


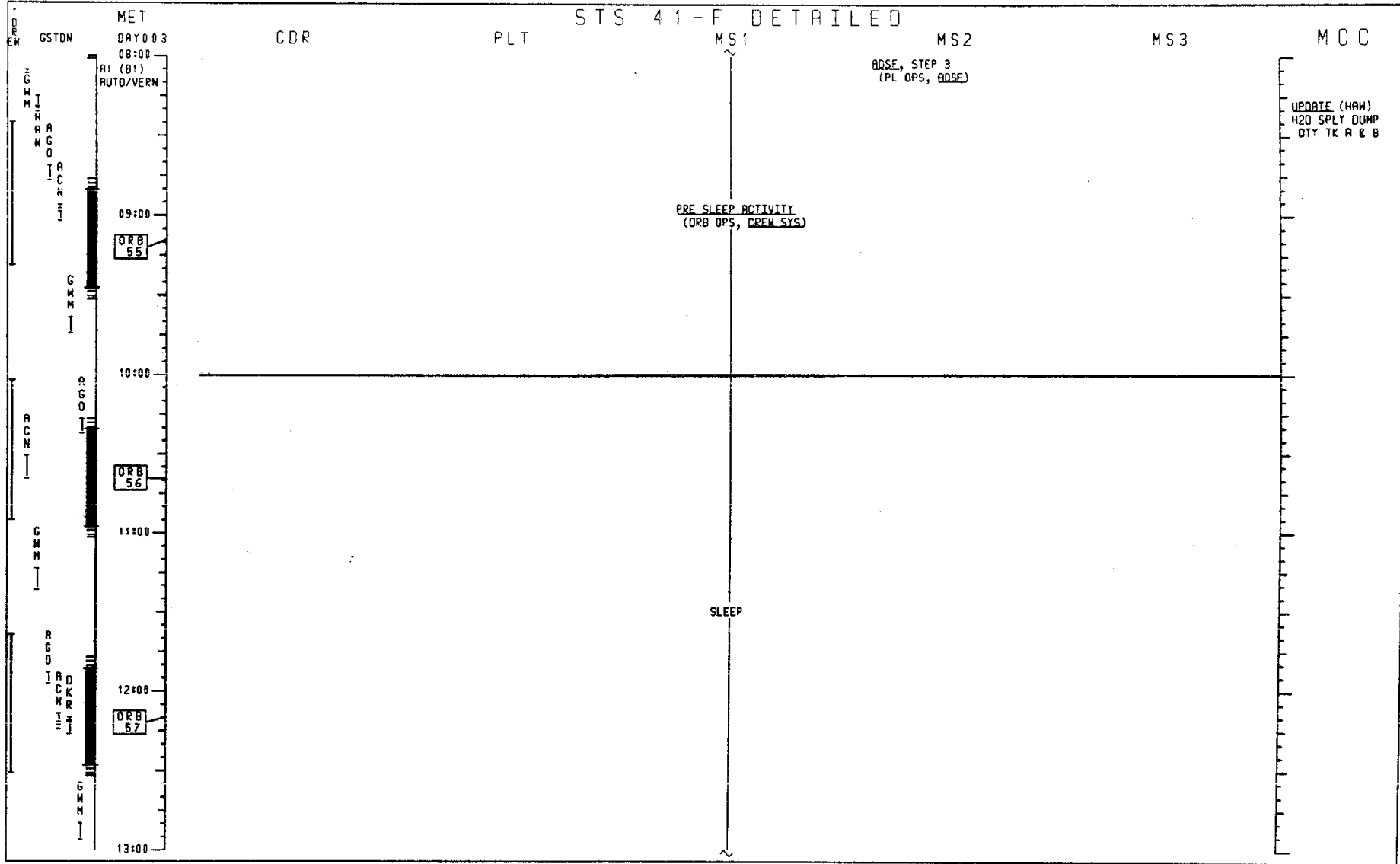


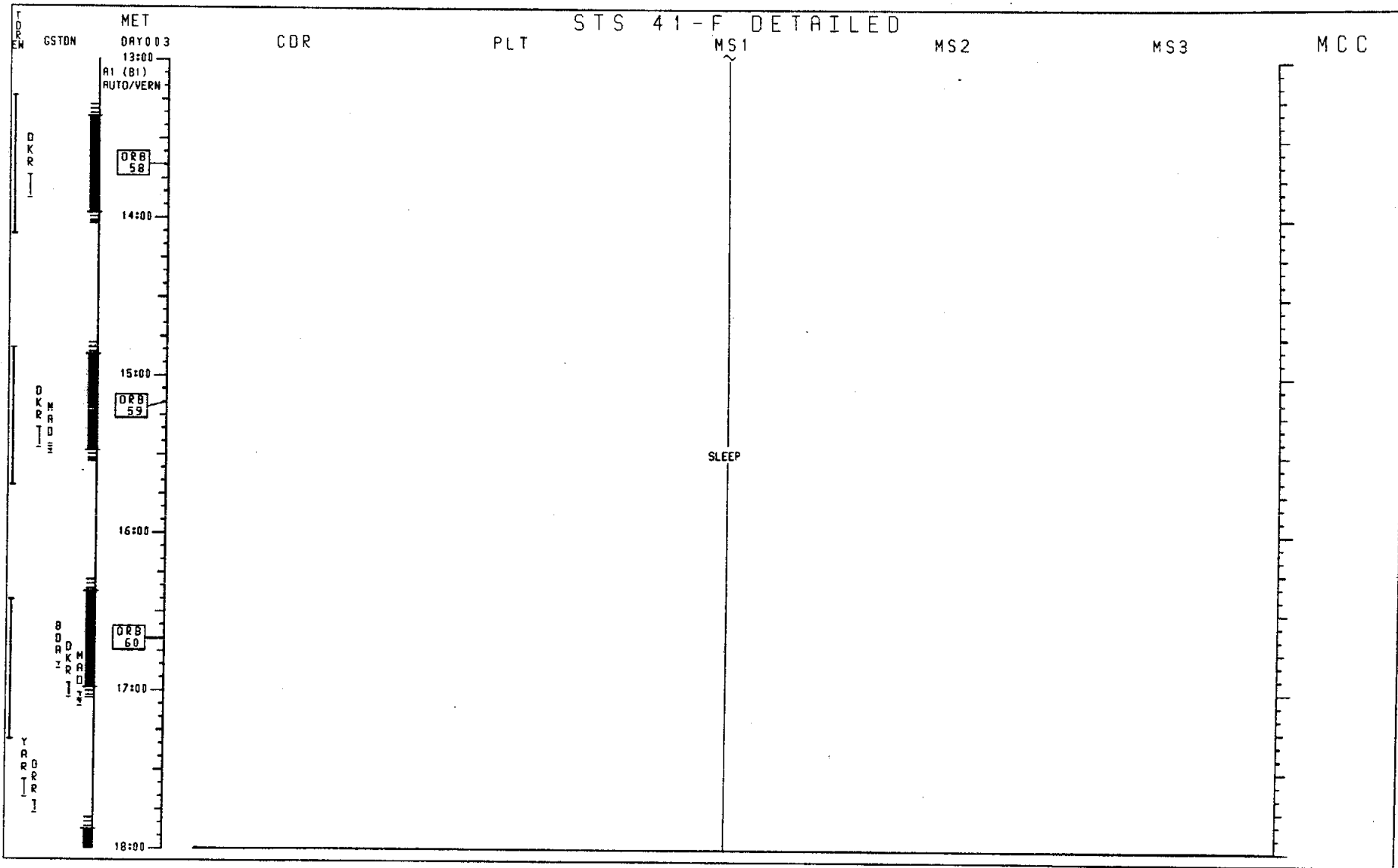


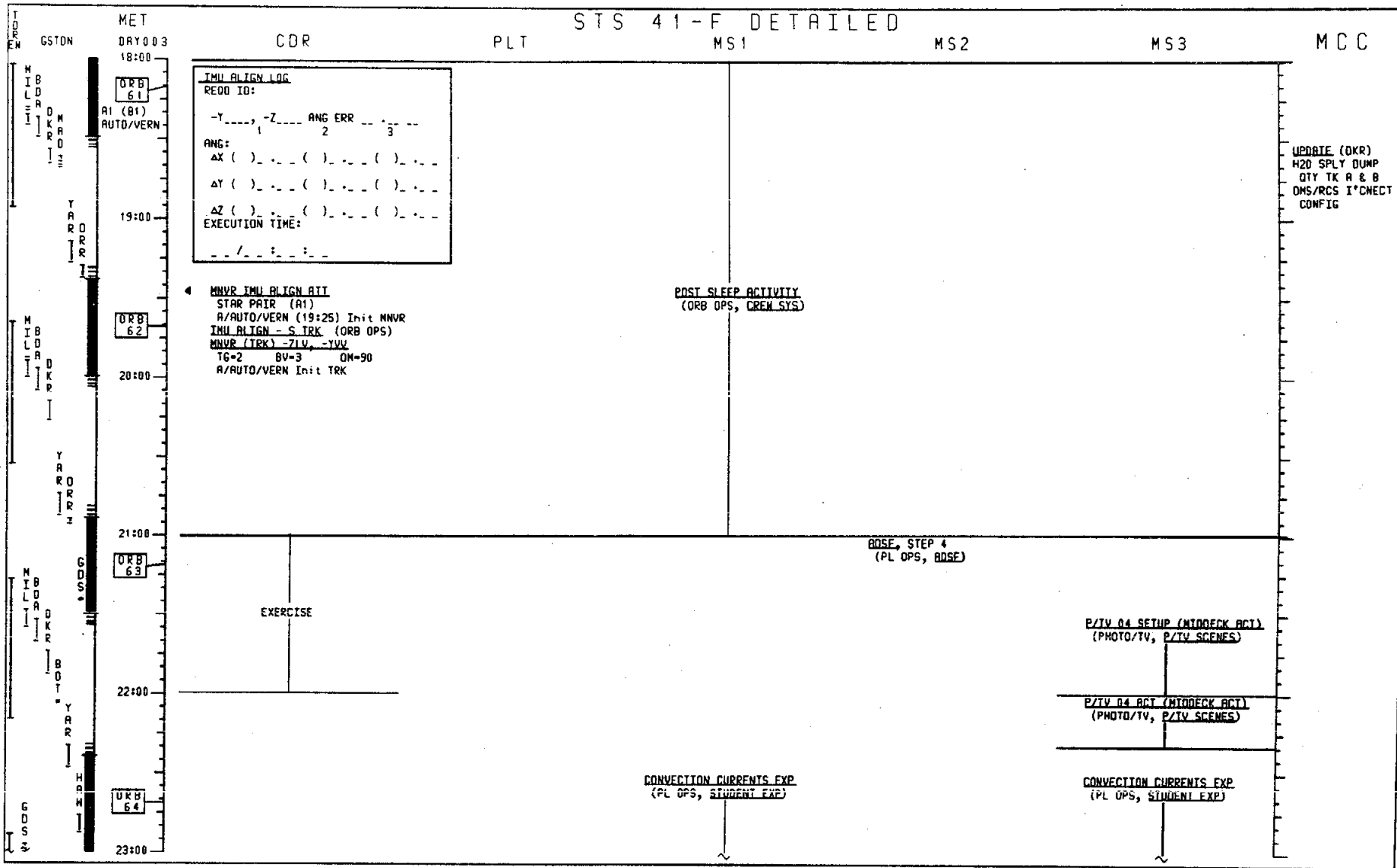


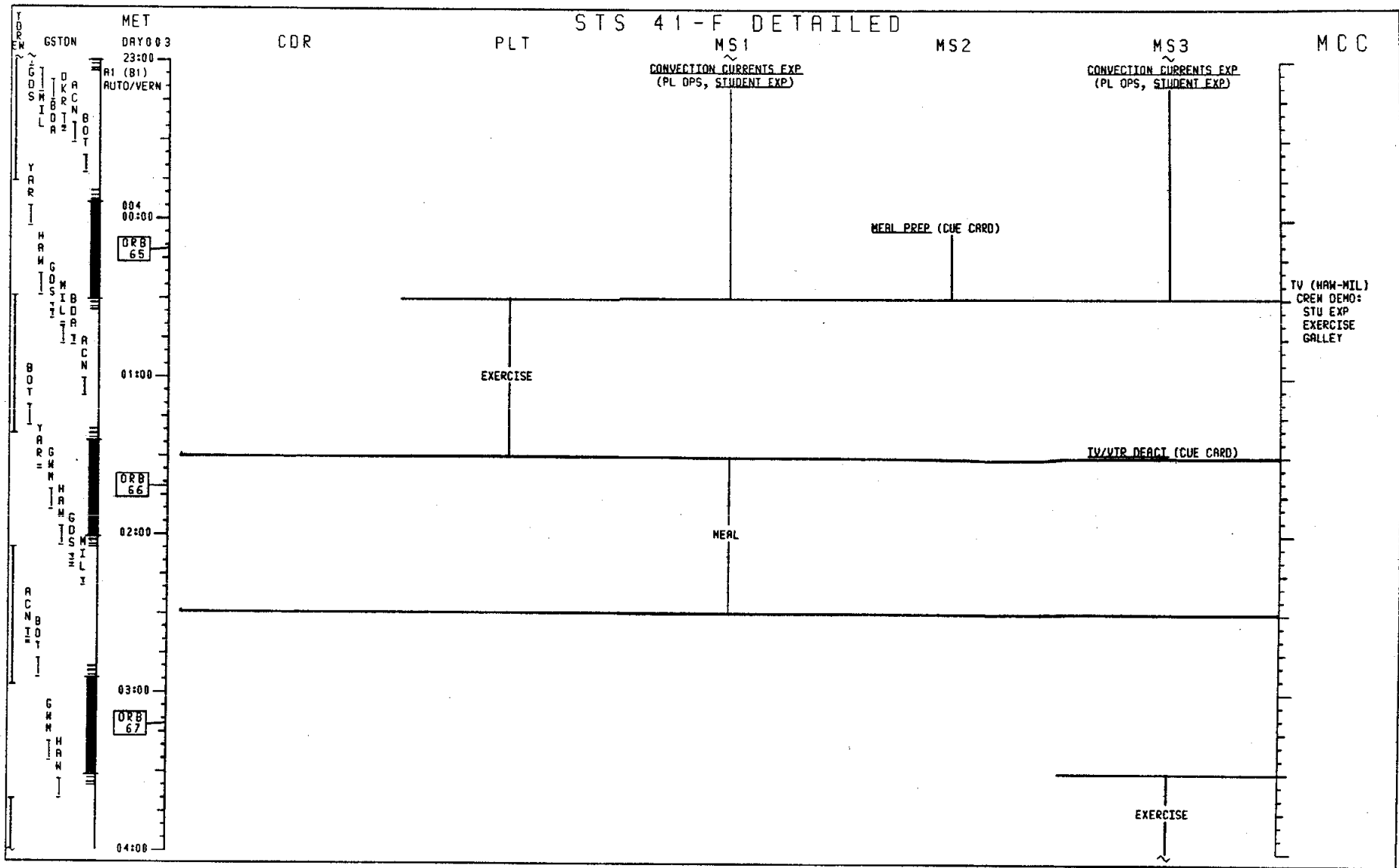


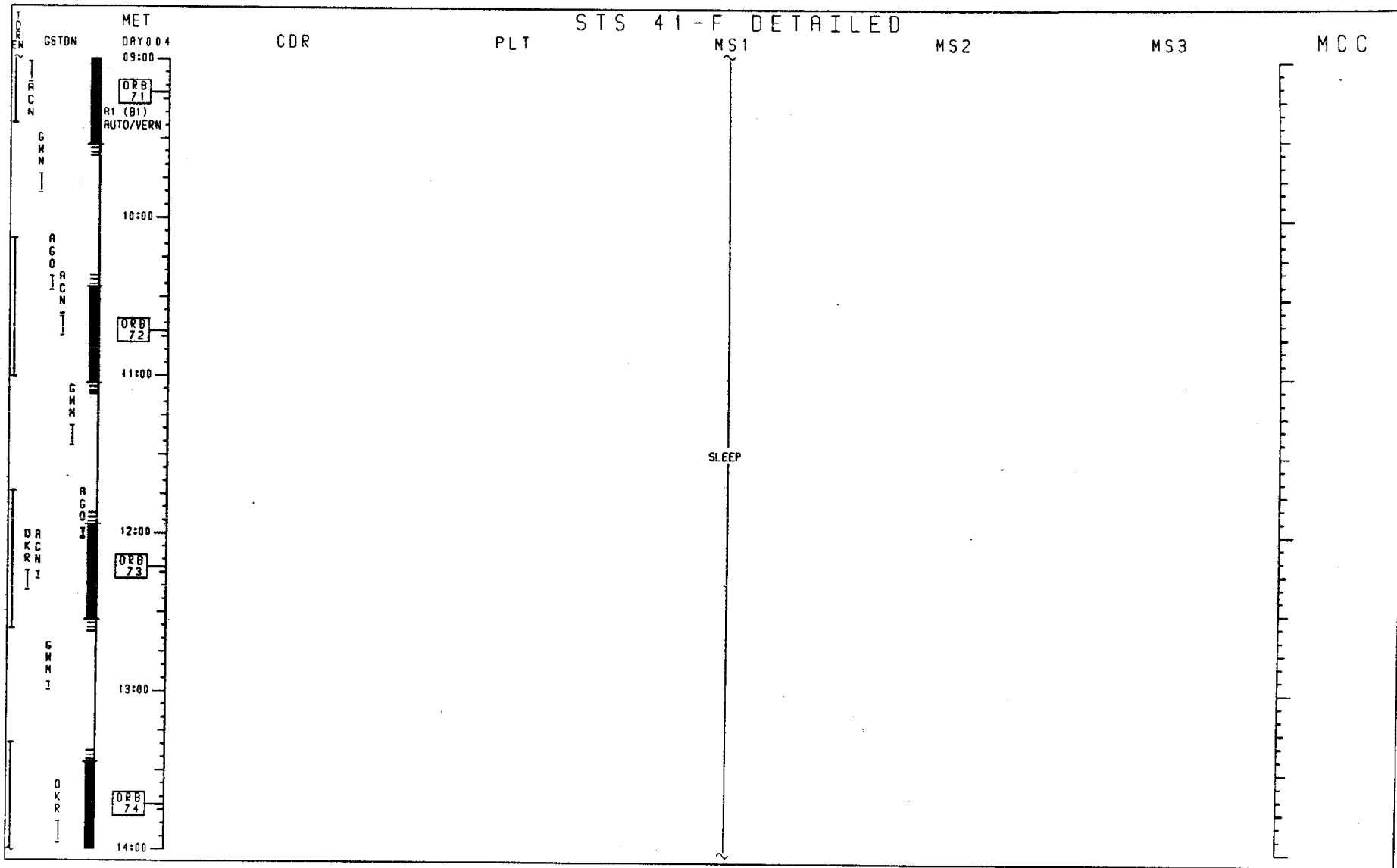


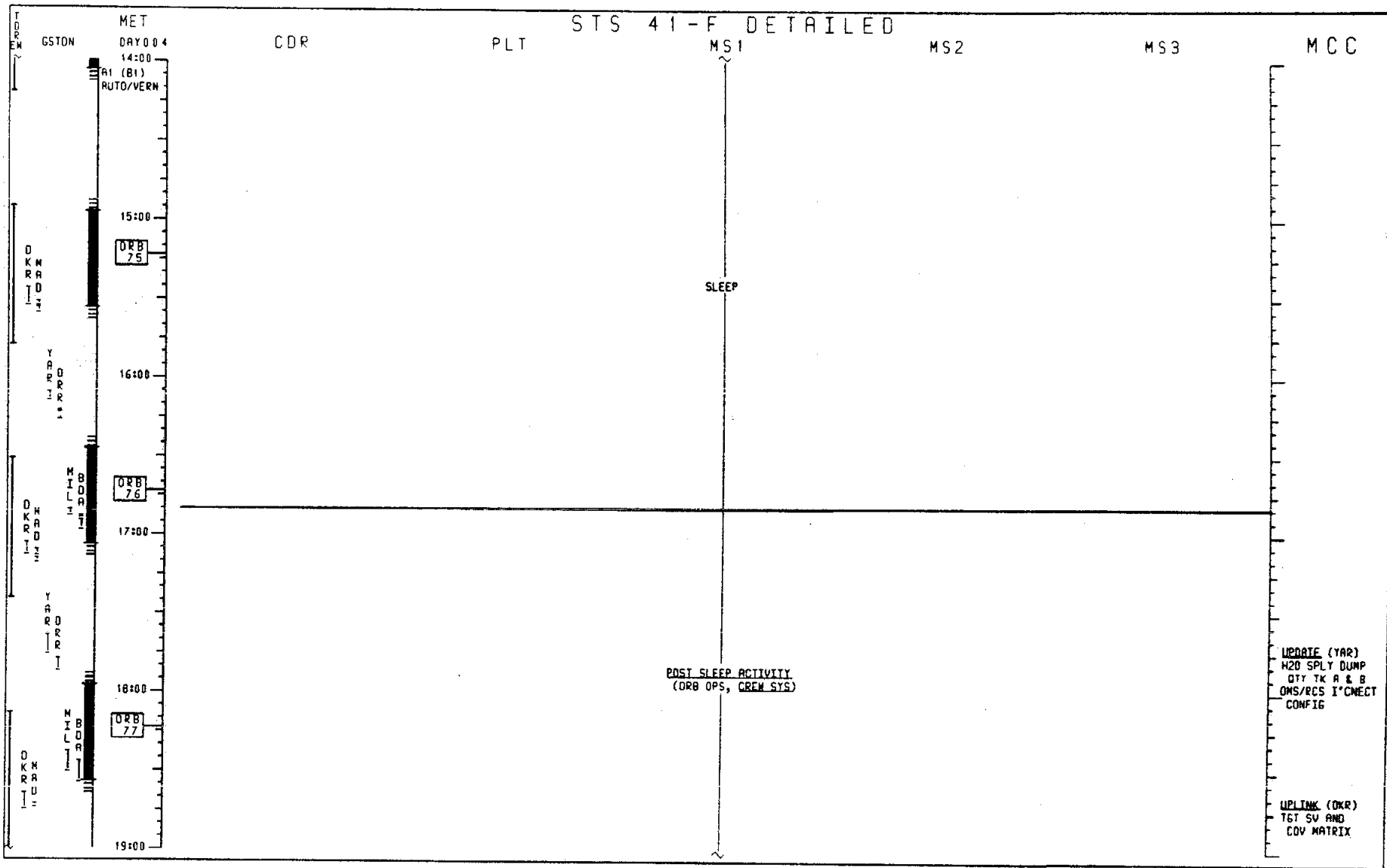


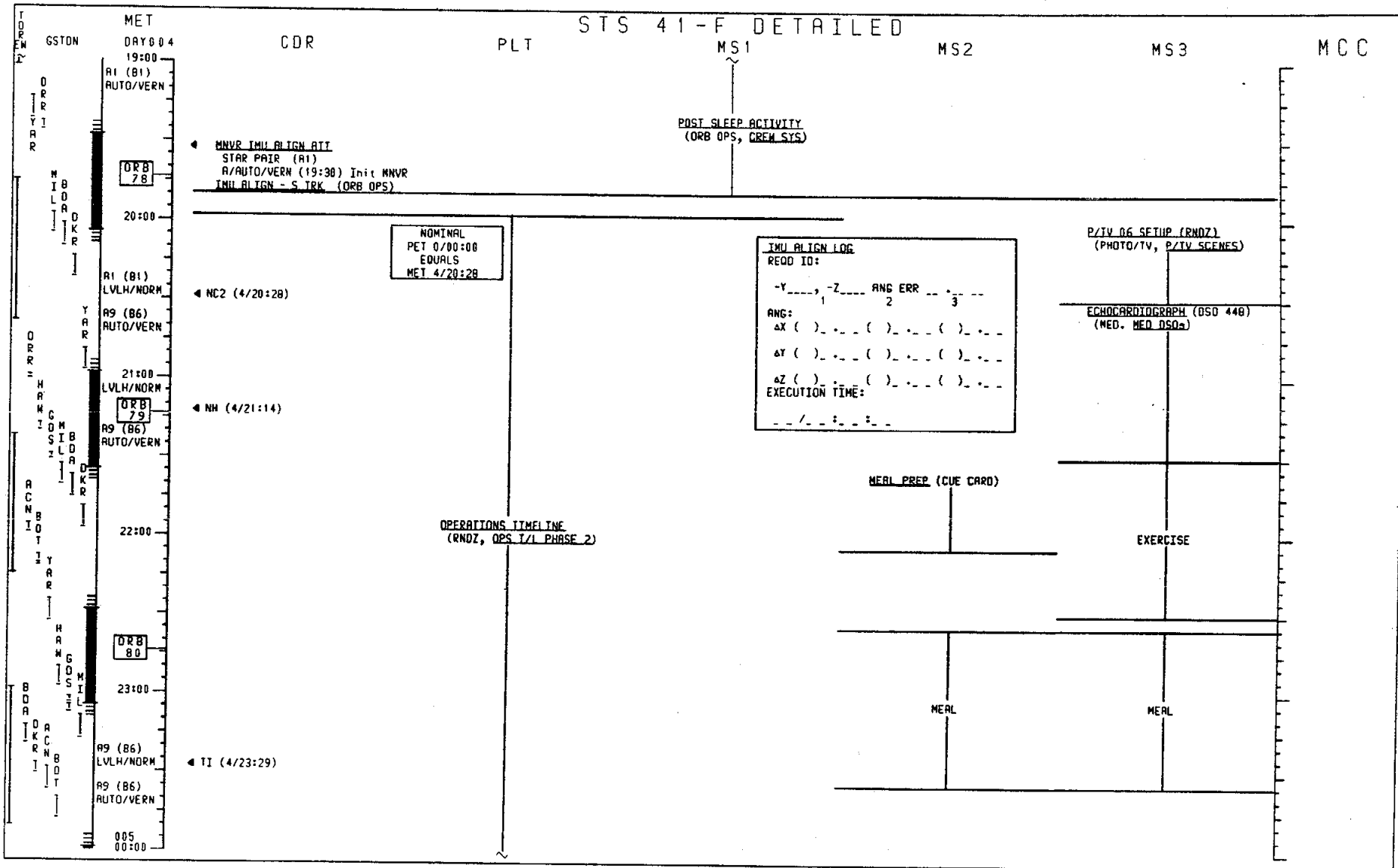




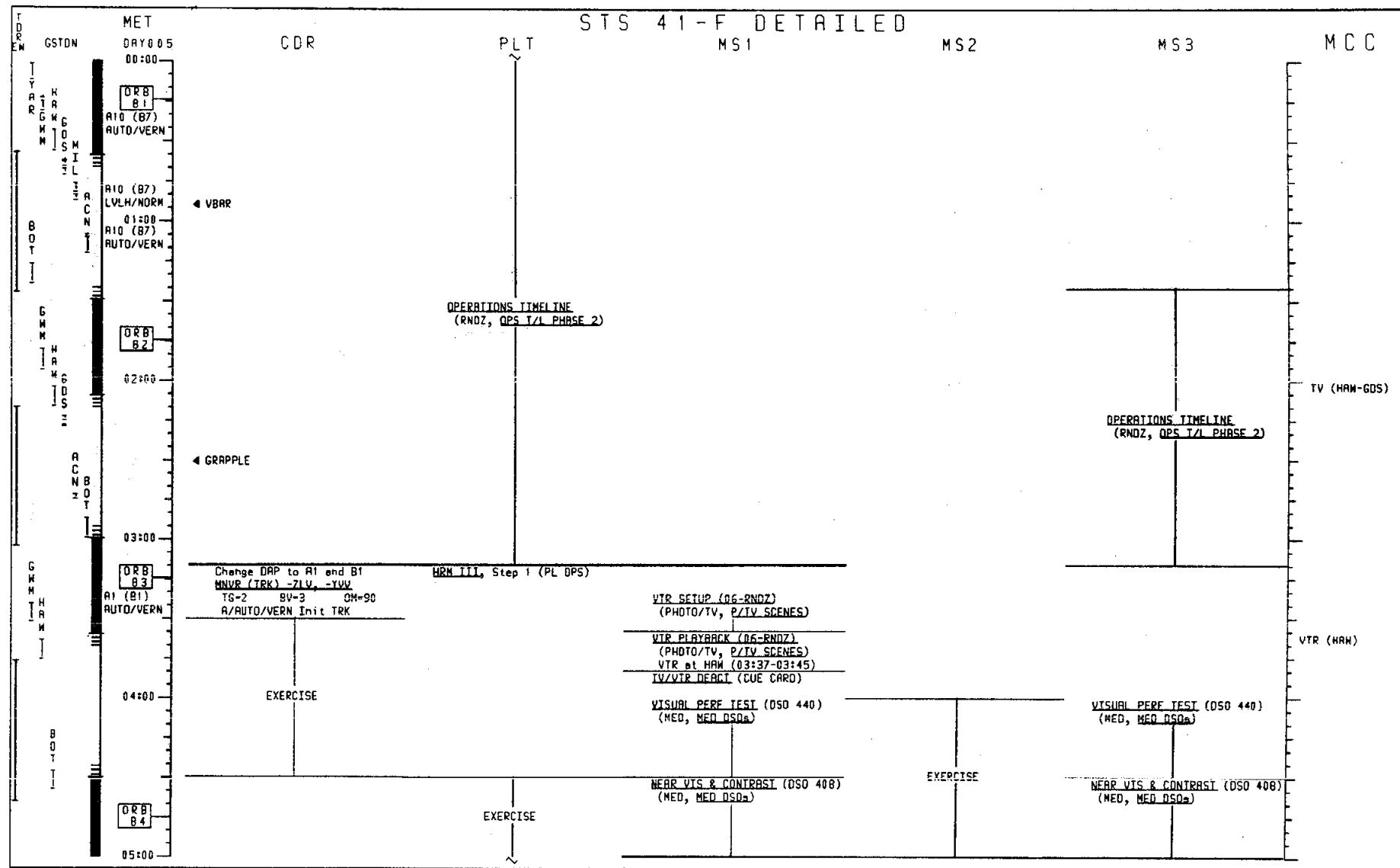


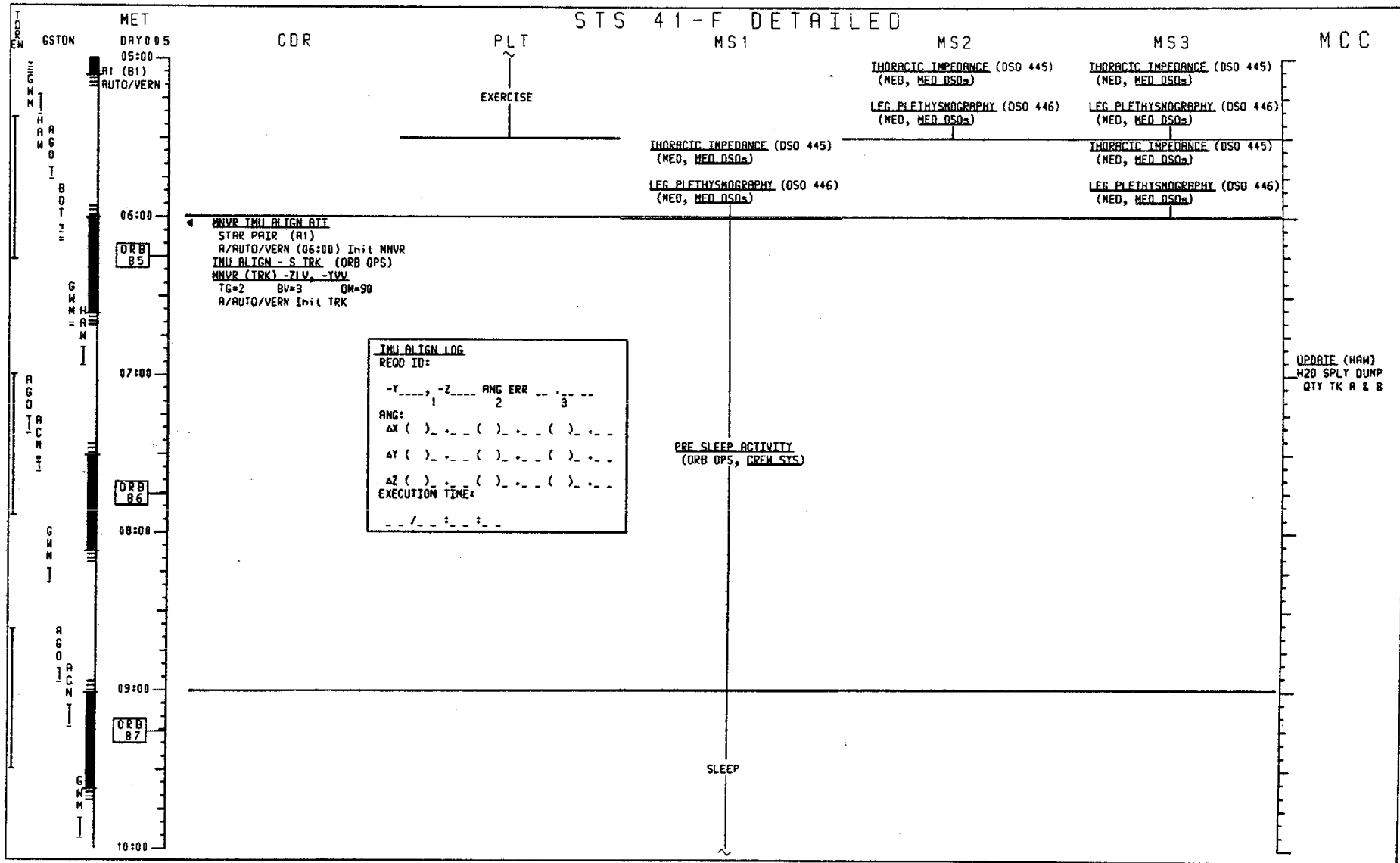


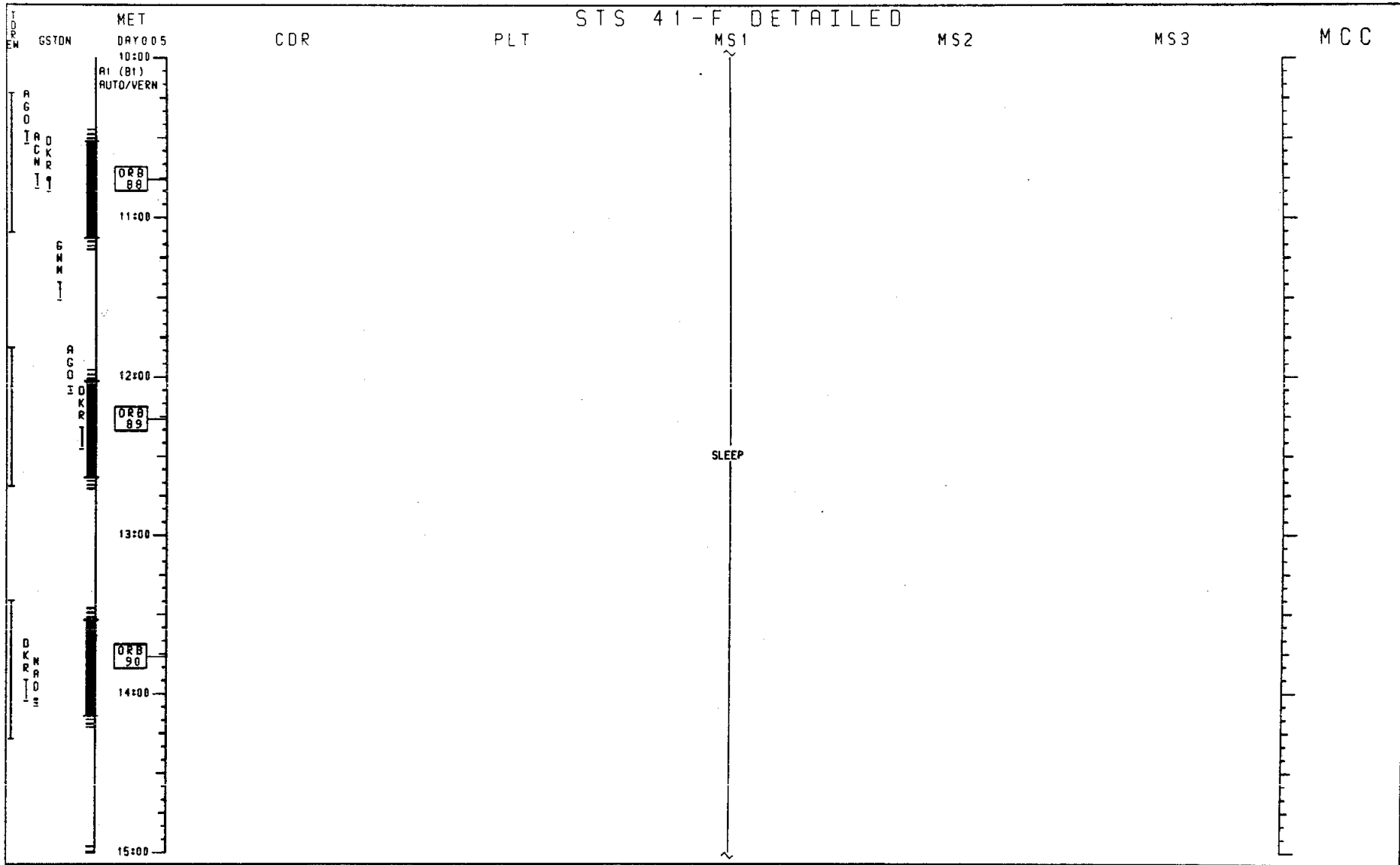




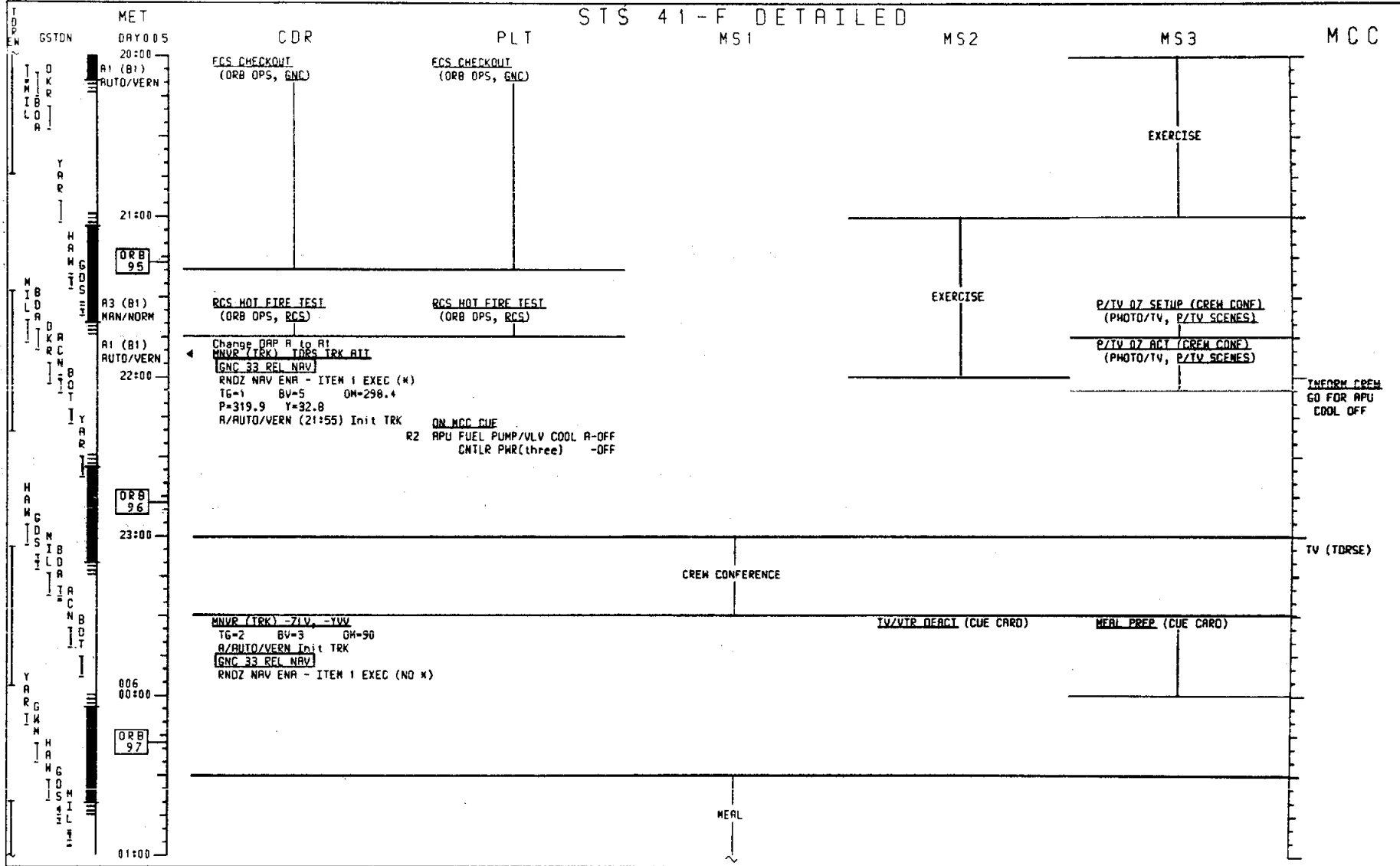
STS 41-F DETAILED
MS1 MS2 MS3



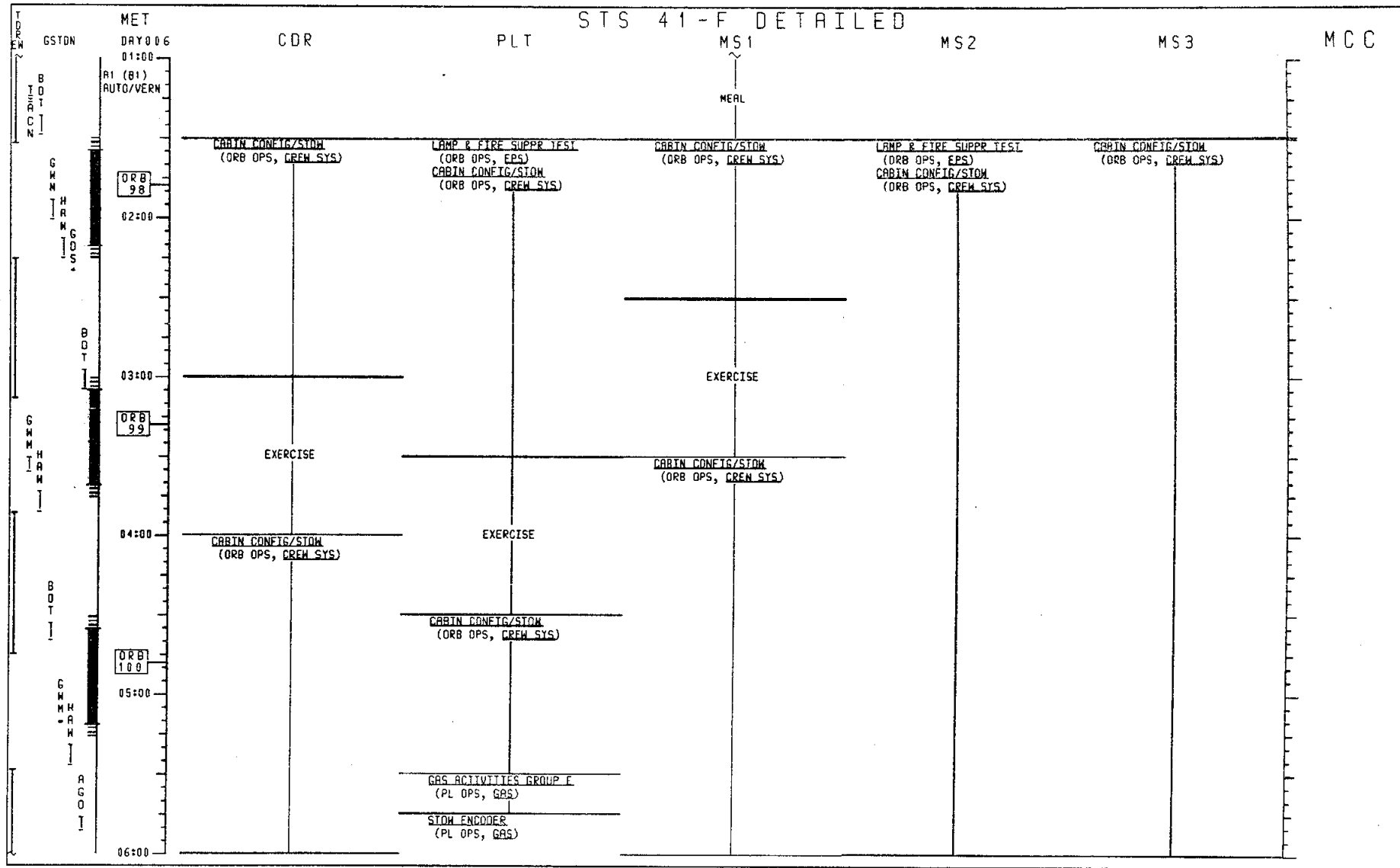


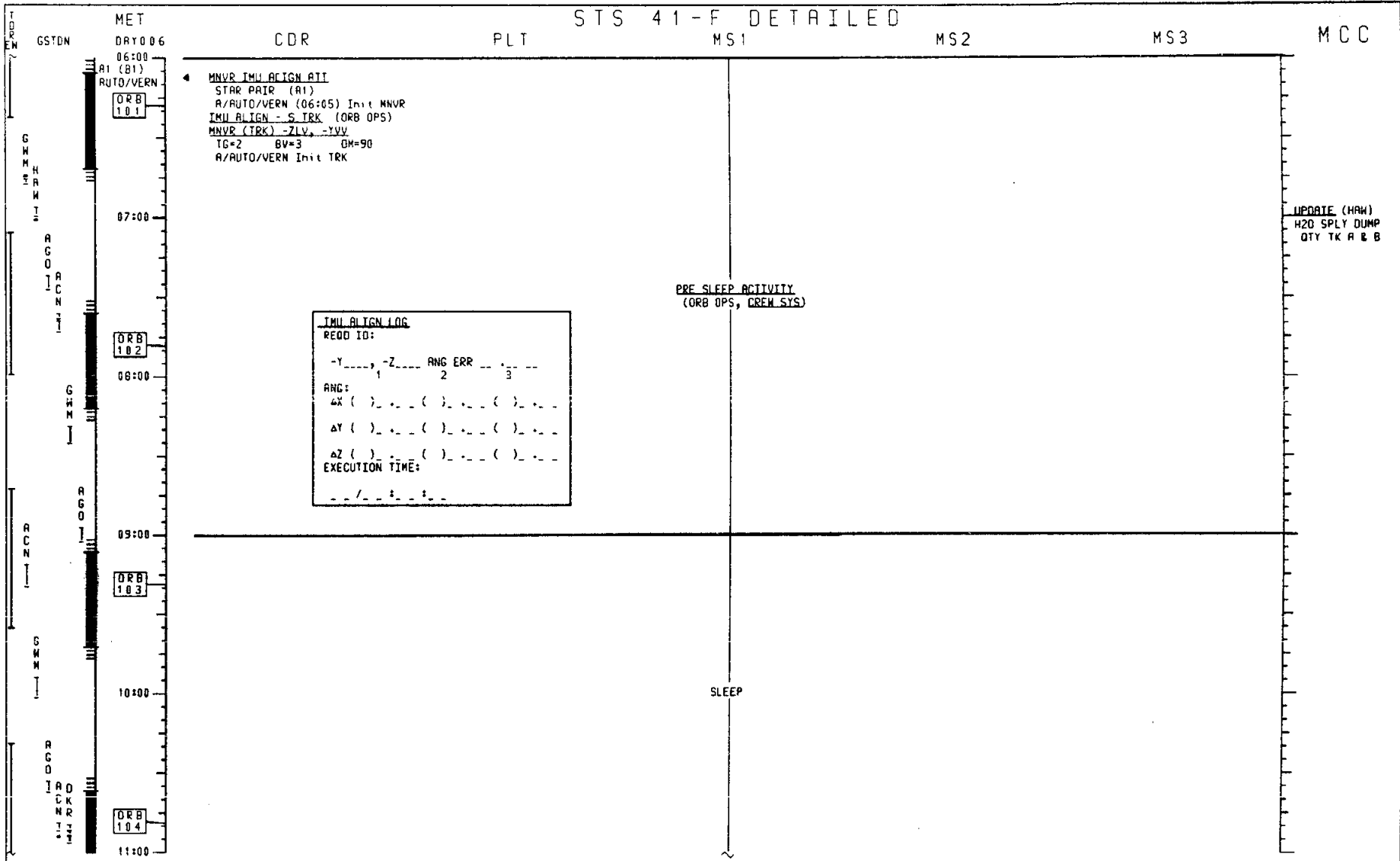


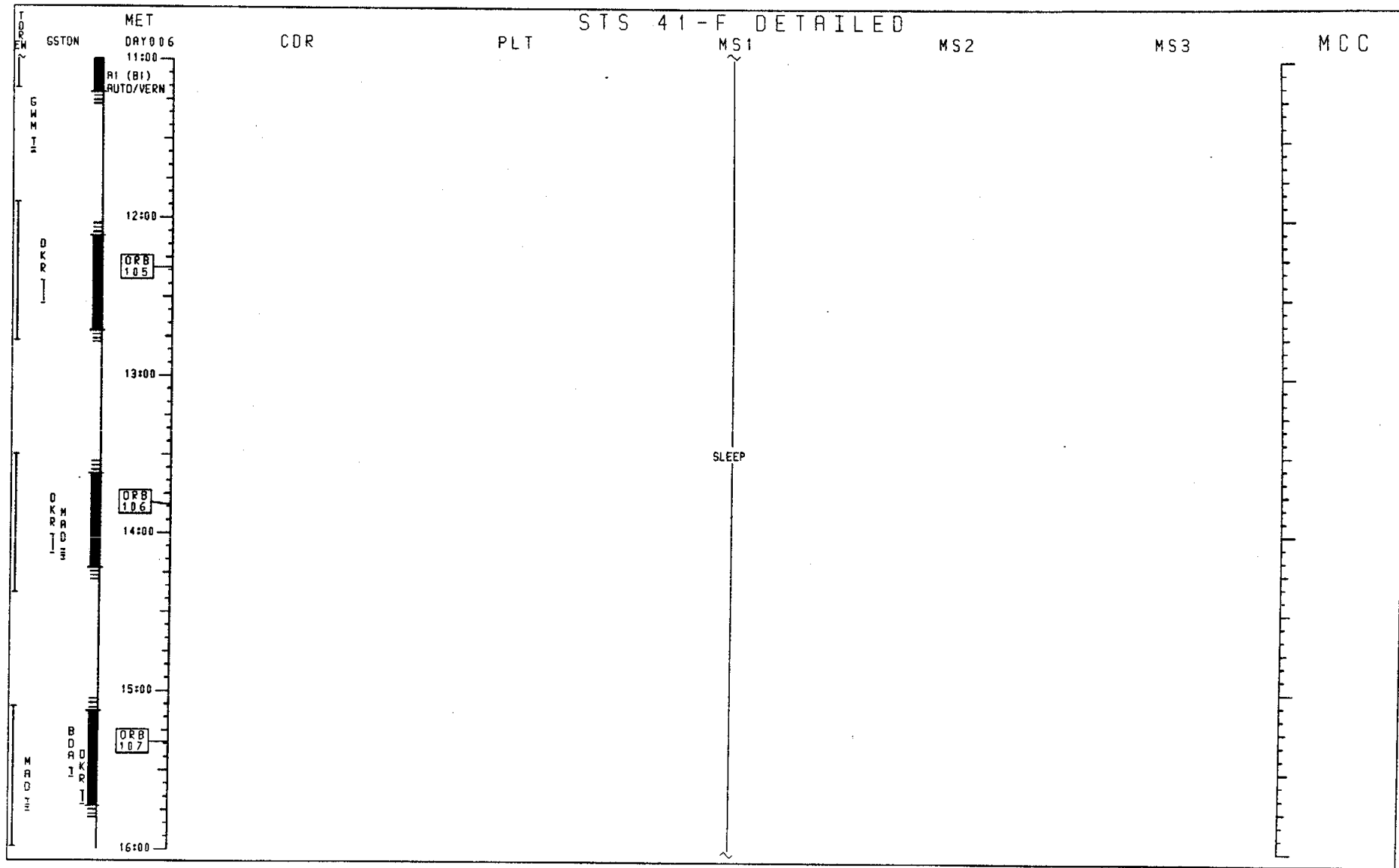
STS 41-F DETAILED

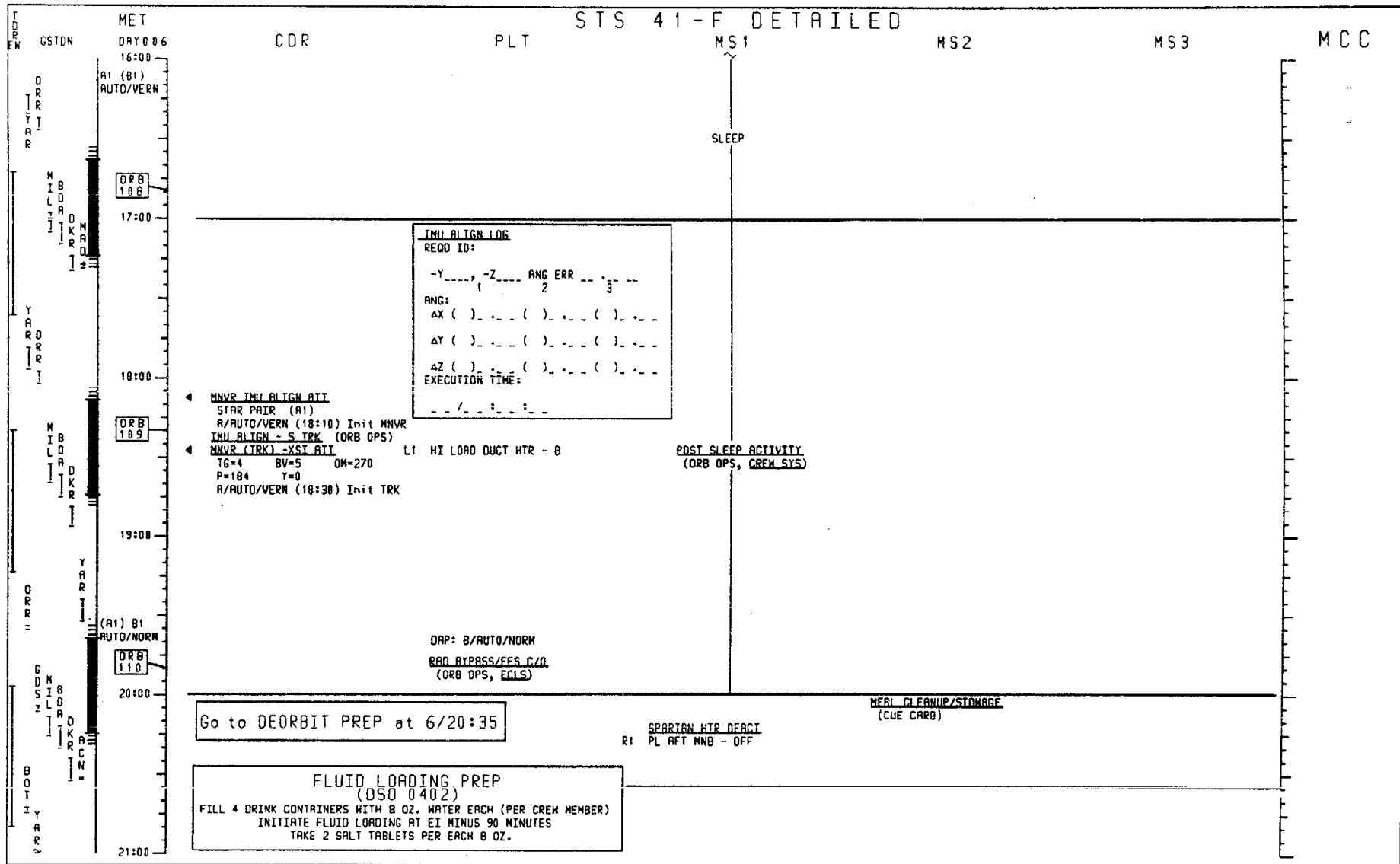


STS 41-F DETAILED









CONTINGENCY TIMELINES

CONTINGENCY
TIMELINES

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**HIGH PRIORITY MISSION
(TBS)**

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CONSUMABLES CURVES
(TBS)

CONSUMABLES
CURVES

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The sections following this divider page
will not be included in flight copies.

STS 41-F DAP BOOK

DAP A CONFIGURATIONS..... 6-2
DAP B CONFIGURATIONS..... 6-3
STS 41-F DAP BOOK..... 6-4

DAP BOOK

DAP A CONFIGURATIONS

	A1*	A2	A3	A4	A5	A6	A7	A8	A9	A10
<u>TRANSLATION</u>										
PULSE ft/sec	0.10	0.10	0.10	0.10	0.10	0.10		0.1	0.10	0.05
<u>ROTATION</u>										
DSC RT NORM °/sec	0.200	0.400	0.200	0.200	0.200	0.200		0.500	0.200	0.200
VERN °/sec	0.200	0.400	0.200	0.008	0.200	0.200		0.200	0.200	0.200
PULSE NORM °/sec	0.10	0.10	0.30	0.10	0.10	0.10		0.10	0.10	0.10
VERN °/sec	0.010	0.010	0.010	0.010	0.050	0.010		0.010	0.010	0.010
COMP NORM °/sec	.00	.00	.00	.00	.00	.00		.00	.00	.00
VERN °/sec	.000	.000	.000	.000	.000	.000		.000	.000	.000
<u>DEADBAND</u>										
ATT NORM (deg)	5.000	1.00	5.00	1.00	5.00	5.00		5.00	2.00	2.00
VERN (deg)	1.000	1.000	1.000	.070	1.000	1.000		1.000	0.500	0.500
RATE NORM °/sec	0.20	0.20	0.20	0.20	0.20	0.20		0.20	0.20	0.20
VERN °/sec	.020	.020	.020	.010	.020	.020		.020	.020	.020
<u>JET OPT</u>										
P	1	1	3	1	1	3		1	1	1
Y	1	1	3	3	1	3		1	1	1
<u>CNTL ACCEL</u>										
	0	0	0	0	0	0		0	0	0

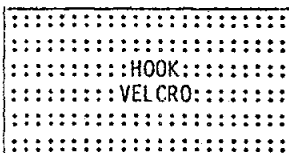
*I-loaded OPS-2 DAP Configuration

DAP B CONFIGURATIONS

	B1*	B2	B3	B4	B5	B6	B7	B8	B9
<u>TRANSLATION</u>									
PULSE ft/sec	0.02	0.02	0.02	0.02	0.02	0.05	0.01	0.10	0.05
<u>ROTATION</u>									
DSC RT NORM °/sec	0.500	0.200	0.200	0.200	0.200	0.500	0.200	0.100	0.150
VERN °/sec	0.200	0.200	0.200	0.008	0.016	0.200	0.200	0.150	0.150
PULSE NORM °/sec	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05
VERN °/sec	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
COMP NORM °/sec	.00	.00	.00	.00	.00	.00	.00	.00	.00
VERN °/sec	.000	.000	.000	.000	.000	.000	.000	.000	.000
<u>DEADBAND</u>									
ATT NORM (deg)	3.00	3.00	3.00	0.30	3.00	2.00	2.00	3.00	3.00
VERN (deg)	1.000	1.000	1.000	0.100	0.033	0.500	0.500	1.000	1.000
RATE NORM °/sec	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
VERN °/sec	.020	.020	.020	.010	.020	.020	.020	0.100	0.100
<u>JET OPT</u>									
P	1	3	1	1	3	1	1	1	3
Y	1	3	1	3	3	1	1	3	3
<u>CNTL ACCEL</u>									
	0	0	0	0	0	0	0	2	3

*I-loaded OPS-2 DAP Configuration

DAP BOOK



41-F/O/BAS

UNIV PRG	
TGT ID = 1	Orbiting Vehicle
= 2	Earth ctr
= 3	Earth tgt
	Input LAT (± 90)
	LON (± 180 , + = East)
	ALT (± 99.99 nm)
= 4	Sun ctr
= 5	Celestial tgt
	Input RA (0-359.99)
	DEC (± 90)
= 11-110	Nav Stars
BODY VECT = 1	+X*
= 2	-X*
= 3	-Z*
= 4	PTC ($\sim 20^\circ$ below +X)*
= 5	Optional
	Input P (0-359.99)
	Y (270-359.99, 0-90)
* input OM +	OM (0-359.99)
MON AXIS = 1	+X
2	-X

41-F/O/BAS

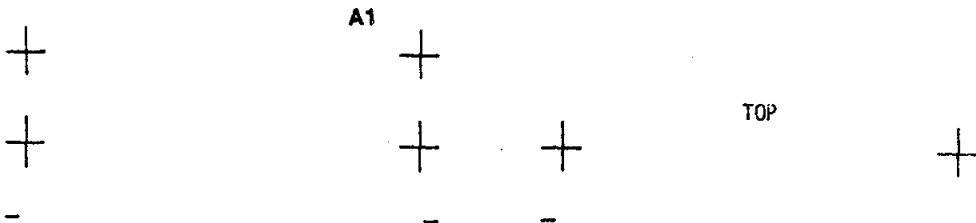
G20 DAP CONFIG			
CNTL ACCEL = 0	Orbiter alone	JET OPT = 1	Normal
= 1	SPARTAN at high hover	= 2	Nose only
= 2	SPARTAN at mid bay	= 3	Tail only
= 3	SPARTAN overhead		

TOP



- DAP PURPOSE
- A1 - NOMINAL
 - ZLV
 - IMJ ALIGN
 - TAIL ONLY CONTROL
 - BACKOUT
 - PRE/POST PAM DEPLOY
 - OMS BURN
 - TAIL-TO-SUN
 - LOSS OF VERN
 - A2 - PTC
 - A3 - RCS HOT FIRE
 - A4 - GG
 - A5 - IMJ ROLL
 - A6 - LOSS OF VERN
 - (TAIL ONLY)
 - A7 - (Blank)
 - A8 - FRISBEE SEP
 - A9 - RENDEZVOUS
 - A10 - PROX OPS
 - A11 - (Blank)

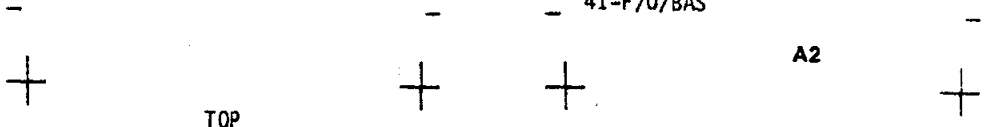
- 41-F/O/BAS



DAP A1

PURPOSE:	<u>0.1 0</u>	1	TRANSLATION PULSE
-ZLV			
IMJ ALIGN	<u>0.2 0 0</u>	2	ROTATION
TAIL ONLY CONTROL BACKOUT	<u>0.2 0 0</u>	3	DSC RT NORM
PRE/POST PAM DEPLOY	<u>0.1 0</u>	4	VERN
OMS BURN	<u>0.0 1 0</u>	5	PULSE NORM
TAIL-TO-SUN	<u>0.0 0</u>	6	VERN
LOSS OF VERN	<u>.0 0 0</u>	7	COMP NORM
(NOSE & TAIL)			VERN
	<u>5.0 0</u>	8	DEADBAND
	<u>1.0 0 0</u>	9	ATT NORM
			VERN
	<u>0.2 0</u>	10	RATE NORM
	<u>0.2 0</u>	11	VERN
	<u>1</u>	12	JET OPT P
	<u>1</u>	13	Y
	<u>0</u>	14	CNTL ACCEL

- 41-F/O/BAS



TOP

(reduced copy)

41-F/BAS

+	+	+	TOP	+
-	-	-		-
	A1			
	DAP A2		A2	
PURPOSE:		<u>0.1 0</u>	1	TRANSLATION PULSE
PTC				ROTATION
		0.4 0 0	2	DSC RT NORM
		<u>0.4 0 0</u>	3	VERN
		<u>0.1 0 0</u>	4	PULSE NORM
		<u>0.0 1 0</u>	5	VERN
		<u>.0 0 0</u>	6	COMP NORM
		<u>.0 0 0</u>	7	VERN
				DEADBAND
		<u>1.0 0 0</u>	8	ATT NORM
		<u>1.0 0 0</u>	9	VERN
		<u>0.2 0 0</u>	10	RATE NORM
		<u>.0 2 0</u>	11	VERN
		<u>1</u>	12	JET OPT P
		<u>1</u>	13	Y
		<u>0</u>	14	CNTL ACCEL

-	-	-	41-F/O/BAS	-
+	+	+	41-F/O/BAS	+
-	-	-		-
	A2		A3	
	DAP A3		A3	

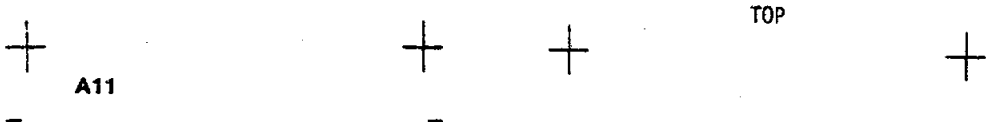
PURPOSE:		<u>0.1 0</u>	1	TRANSLATION PULSE
RCS HOT FIRE				ROTATION
		0.2 0 0	2	DSC RT NORM
		<u>0.2 0 0</u>	3	VERN
		<u>0.3 0 0</u>	4	PULSE NORM
		<u>0.0 1 0</u>	5	VERN
		<u>.0 0 0</u>	6	COMP NORM
		<u>.0 0 0</u>	7	VERN
				DEADBAND
		<u>5.0 0 0</u>	8	ATT NORM
		<u>1.0 0 0</u>	9	VERN
		<u>0.2 0 0</u>	10	RATE NORM
		<u>.0 2 0</u>	11	VERN
		<u>3</u>	12	JET OPT P
		<u>3</u>	13	Y
		<u>0</u>	14	CNTL ACCEL

-	-	-	41-F/O/BAS	-
+	+	+	41-F/O/BAS	+
-	-	-		-
	A4			
	DAP A4			

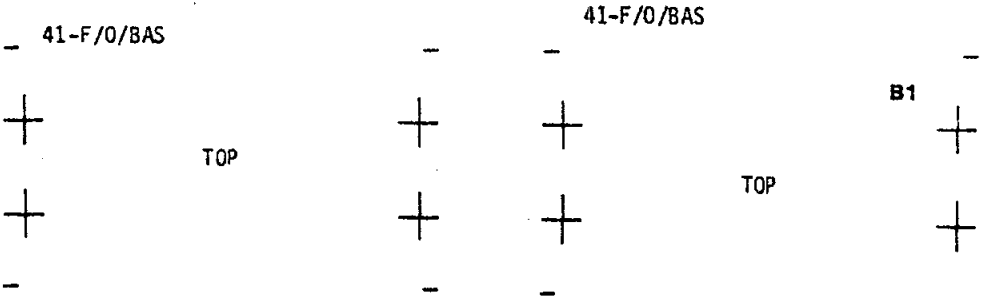
+	+	+	+	+	TOP
-	-	-	-	-	-
	A9				A10
	DAP A10				
PURPOSE:		0.0	5	1	TRANSLATION PULSE
PROX OPS		0.2	0 0	2	ROTATION DSC RT NORM
		0.2	0 0	3	VERN
		0.1	0	4	PULSE NORM
		0.0	1 0	5	VERN
		.0	0 0	6	COMP NORM
		.0	0 0	7	VERN
		2.0	0	8	DEADBAND ATT NORM
		0.5	0 0	9	VERN
		0.2	0	10	RATE NORM
		0.2	0	11	VERN
		1		12	JET OPT P
		1		13	Y
		0		14	CNTL ACCEL

-	41-F/O/BAS	-	-	-	41-F/O/BAS
+		+	+	+	+
	TOP				A11
-	-	-	-	-	-
	A10				TOP
					-
	DAP A11				A11
PURPOSE: (Blank)		.-.-		1	TRANSLATION PULSE
		.-.-		2	ROTATION DSC RT NORM
		.-.-		3	VERN
		.-.-		4	PULSE NORM
		.-.-		5	VERN
		.-.-		6	COMP NORM
		.-.-		7	VERN
		.-.-		8	DEADBAND ATT NORM
		.-.-		9	VERN
		.-.-		10	RATE NORM
		.-.-		11	VERN
		.-.-		12	JET OPT P
		.-.-		13	Y
		.-.-		14	CNTL ACCEL

-	41-F/O/BAS	-	-	-	41-F/O/BAS
+		+	+	+	+
	TOP				-



- DAP PURPOSE
- B1 - NOMINAL
 - PRCS IMU ALIGN
 - TOP-TO-SUN
 - TAIL ONLY CNTRL BACKOUT
 - OMS & RCS BURNS
 - B2 - LOSS OF VERN (TAIL ONLY)
 - B3 - LOSS OF VERN; GG MNVR
 - B4 - PAM DEPLOY; FRISBEE
 - DEPLOY
 - B5 - COAS CAL
 - B6 - RENDEZVOUS
 - B7 - PROX OPS
 - B8 - SPARTAN RELEASE
 - B9 - SPARTAN CAPTURE
 - B10 - (Blank)



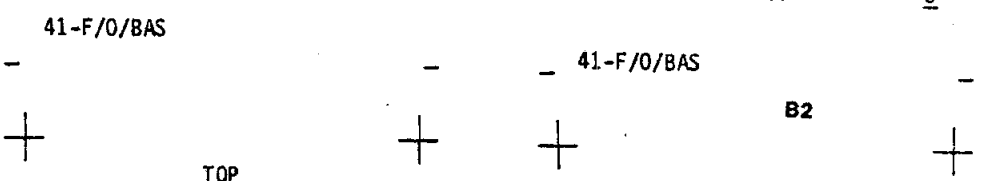
DAP B1

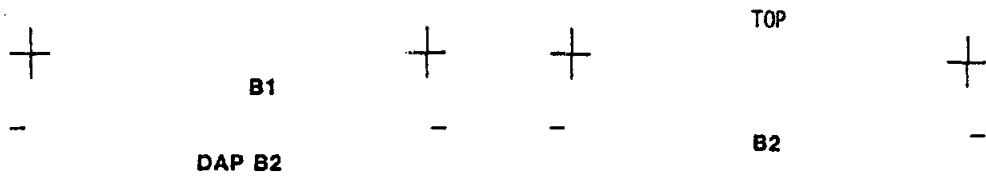
PURPOSE:

- PRCS IMU ALIGN
- TOP-TO-SUN
- TAIL ONLY CONTROL BACKOUT
- OMS & RCS BURNS

B1

TRANSLATION PULSE	15	0.0	2
ROTATION			
DSC RT NORM	16	0.5	0 0
VERN	17	0.2	0 0
PULSE NORM	18	0.0	0 4
VERN	19	0.0	0 2
COMP NORM	20	0.0	0 0
VERN	21	0.0	0 0
DEADBAND			
ATT NORM	22	3.0	0 0
VERN	23	1.0	0 0
RATE NORM	24	0.2	0 0
VERN	25	0.2	0 0
JET OPT P	26		1
Y	27		1
CNTL ACCEL	28		0



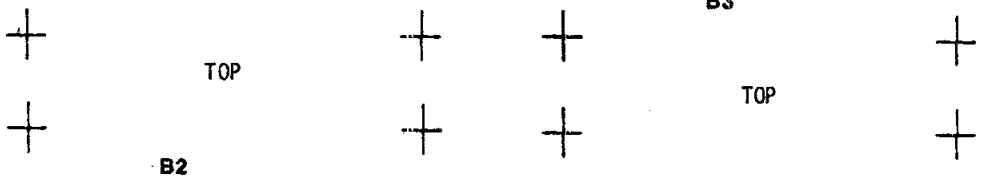


PURPOSE:
LOSS OF VERN
(TAIL ONLY)

TRANSLATION PULSE	15	0.0	2
ROTATION			
DSC RT NORM	16	0.2	0 0
VERN	17	0.2	0 0
PULSE NORM	18	0.0	4
VERN	19	0.0	2
COMP NORM	20	0.0	0
VERN	21	0.0	0
DEADBAND			
ATT NORM	22	3.0	0
VERN	23	1.0	0 0
RATE			
NORM	24	0.2	0
VERN	25	0.2	0
JET OPT			
P	26		3
Y	27		3
CNTL ACCEL	28		0

41-F/O/BAS

41-F/O/BAS



PURPOSE:
LOSS OF VERN
(NOSE & TAIL)
GG MNVR

TRANSLATION PULSE	15	0.0	2
ROTATION			
DSC RT NORM	16	0.2	0 0
VERN	17	0.2	0 0
PULSE NORM	18	0.0	4
VERN	19	0.0	2
COMP NORM	20	0.0	0
VERN	21	0.0	0
DEADBAND			
ATT NORM	22	3.0	0
VERN	23	1.0	0 0
RATE			
NORM	24	0.2	0
VERN	25	0.2	0
JET OPT			
P	26		1
Y	27		1
CNTL ACCEL	28		0

41-F/O/BAS

41-F/O/BAS



+ + + TOP +

B7

DAP B8

PURPOSE:
SPARTAN RELEASE

41-F/O/BAS

+ + + B9 +

TOP

B8

TOP

DAP B9

PURPOSE:
SPARTAN CAPTURE

41-F/O/BAS

+ + + B10 +

TOP

TOP

B8

TRANSLATION PULSE	15	0.1 0
ROTATION		
DSC RT NORM	16	0.1 0 0
VERN	17	0.1 5 0
PULSE NORM	18	0.0 4
VERN	19	0.0 0 2
COMP NORM	20	.0 0 0
VERN	21	.0 0 0
DEADBAND		
ATT NORM	22	3.0 0
VERN	23	1.0 0 0
RATE		
NORM	24	0.2 0
VERN	25	0.1 0 0
JET OPT		
P	26	1
Y	27	3
CNTL ACCEL	28	2

41-F/O/BAS

B9

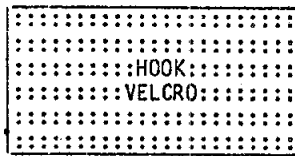
B9

TRANSLATION PULSE	15	0.0 2
ROTATION		
DSC RT NORM	16	0.1 0 0
VERN	17	0.1 5 0
PULSE NORM	18	0.0 4
VERN	19	0.0 0 2
COMP NORM	20	.0 0 0
VERN	21	.0 0 0
DEADBAND		
ATT NORM	22	3.0 0
VERN	23	3.0 0 0
RATE		
NORM	24	0.2 0
VERN	25	0.1 0 0
JET OPT		
P	26	1
Y	27	3
CNTL ACCEL	28	1

41-F/O/BAS

B10

TOP
BACK COVER 'DAP BOOK'



41-F/0/BAS



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STS 41-F ATTITUDE TIMELINE

(TBS)

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