

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: April 22, 2009

For the Period: 04/23/09 to 05/18/09 (09-113- 09-138)

**DSN OPSCHIEF (1) 230-102**

**SCIENCE**

**FLIGHT TEAM (15) 600-100**

**DSOT (1) 230-102**

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 PWS \*wsk@space.physics.uiowa.edu  
 \*Leonard.F.Burlaga@nasa.gov  
 \*Donald-Gurnett@uiowa.edu

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 Ludwig, R. (2)  
 Massey, Ed  
 Matsumoto, S.  
 Medina, E.  
 Peralta, F.  
 Poynter, R.  
 Weeks, T.  
 Wong, R.  
 Yang, L  
 Zottarelli, L.

\*odivers1@san.rr.com

**OTHER**

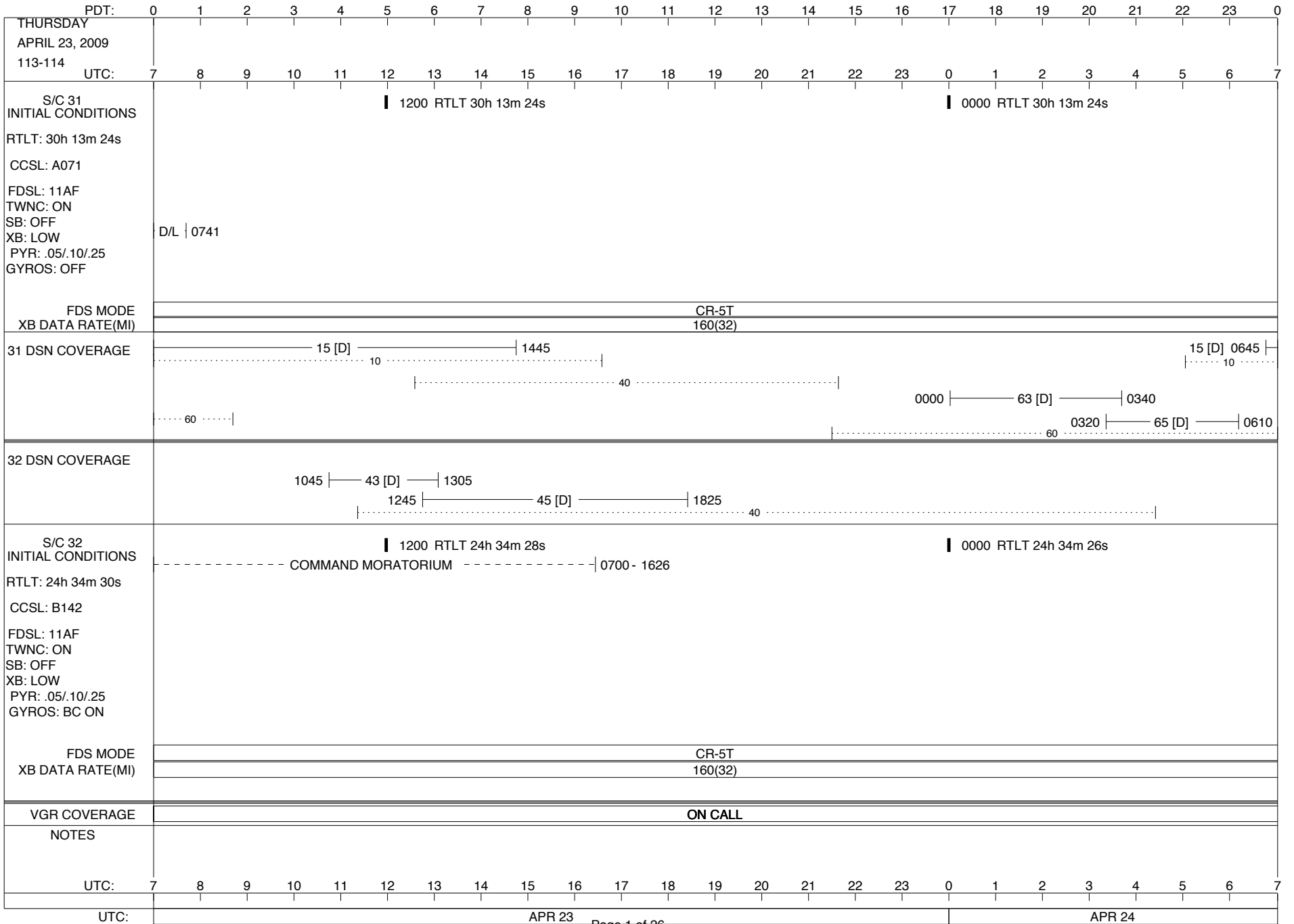
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 \* Belinda.Arroyo@jpl.nasa.gov  
 \* DSN-MPSETA@jjpl.jpl.nasa.gov

**LEGEND:**

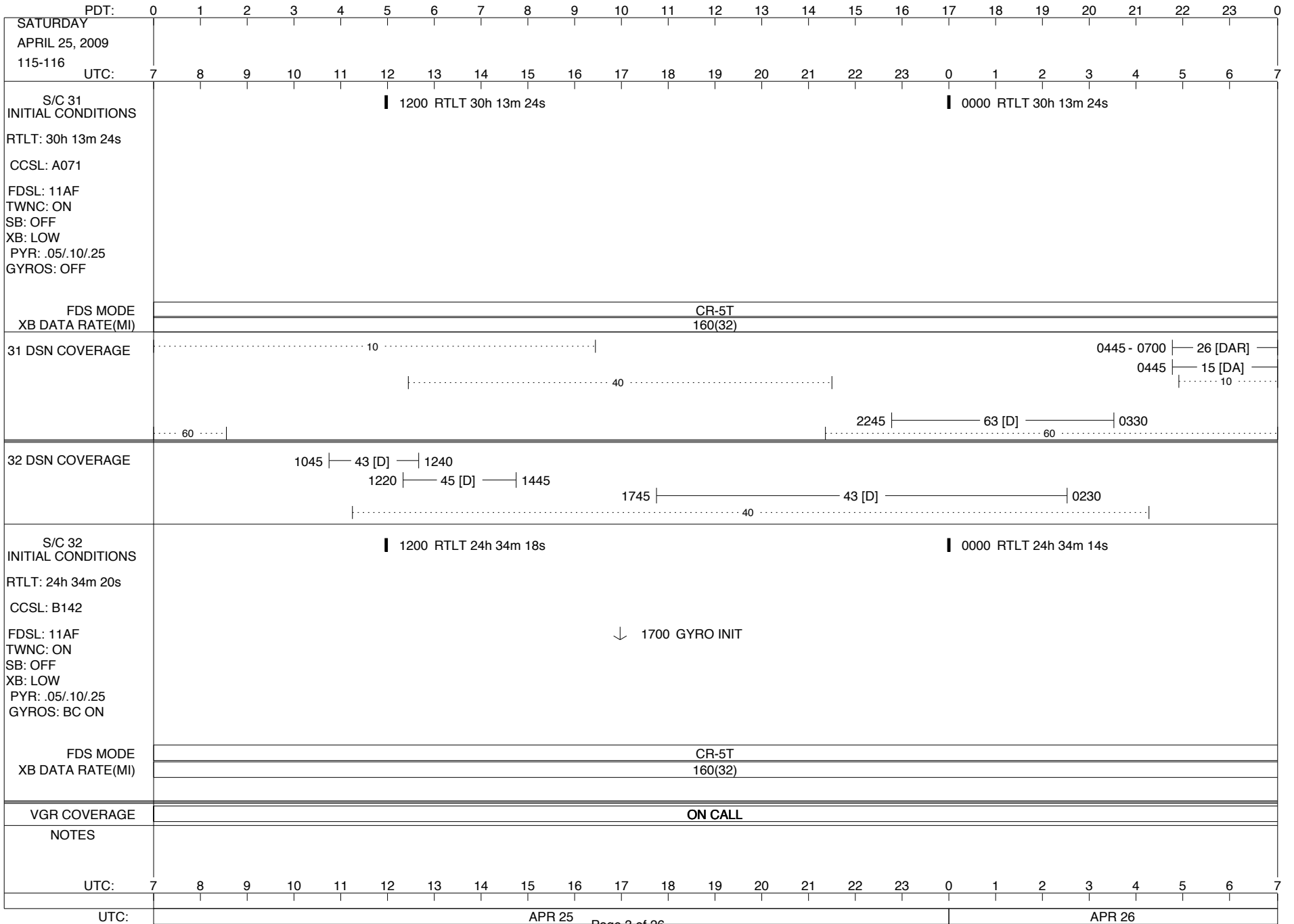
∇ = R/T Command (Last chance or Contingency)  
 ▼ = R/T Command (Scheduled)  
 \* = Result of R/T Command  
 n = (where n = 1,2,3 ..) Special Note, see bottom of page  
 A = Arrayed station  
 B = 7-Point BLF  
 D = Downlink only pass  
 H = High Power Transmitter  
 R = Array Reference Antenna  
 T = TLC Uplink  
 U = Uplink only pass  
 [o] = Ramp-through

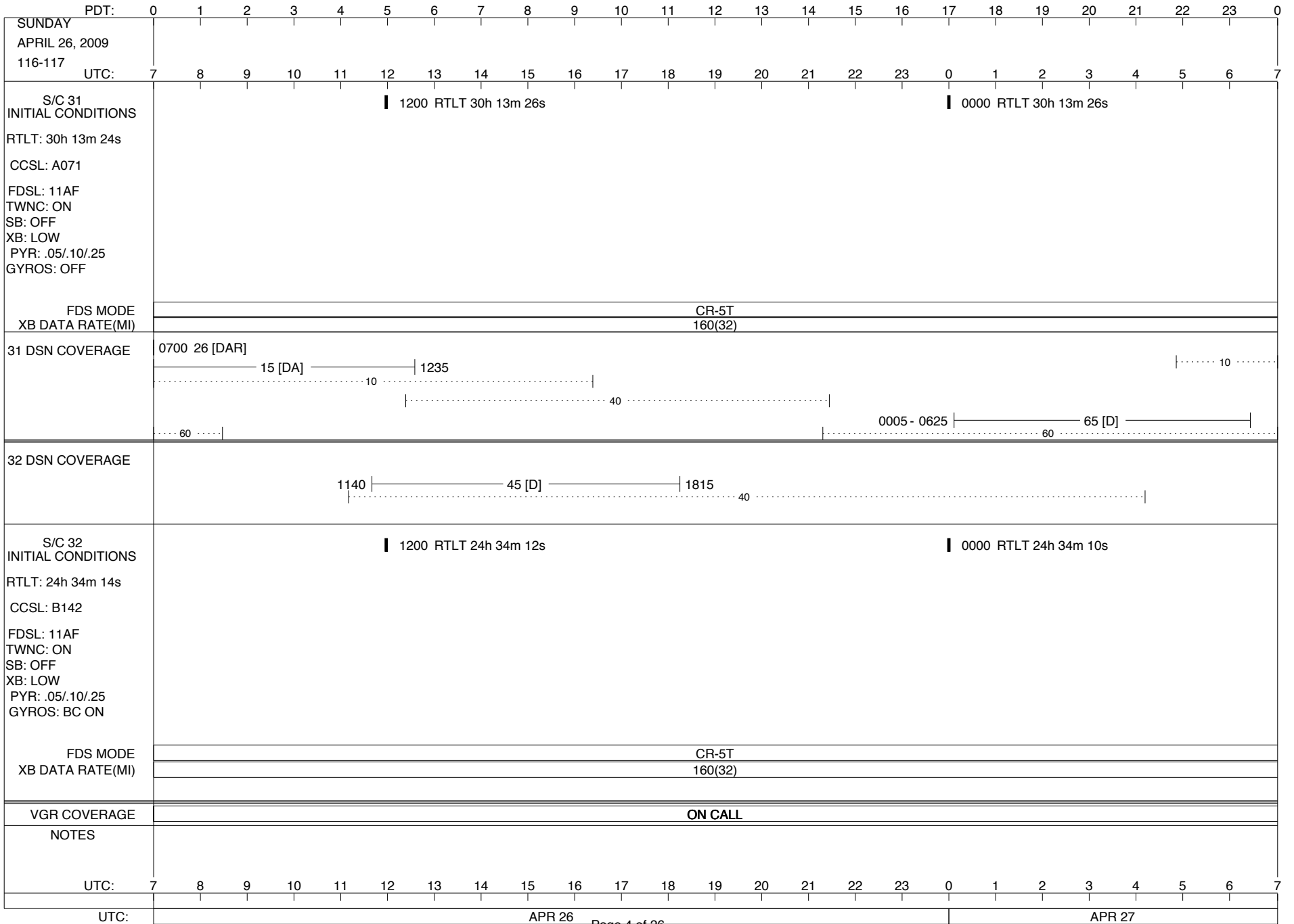
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 (17 – Dist/N: Paper Copies)  
 04/02/09

ISSUE DATE: 04/23/09 14:15



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FRIDAY APRIL 24, 2009 114-115																												
S/C 31 INITIAL CONDITIONS RTLT: 30h 13m 24s CCSL: A071 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 30h 13m 24s												0000 RTLT 30h 13m 24s															
FDS MODE	CR-5T												CR-5T															
XB DATA RATE(MI)	160(32)												160(32)															
31 DSN COVERAGE	<p>15 [D]   1405   10   40   2120   63 [D]   2330   2325   65 [D]   0445   60</p>																											
32 DSN COVERAGE	<p>1130   43 [o]   1720   40</p>																											
S/C 32 INITIAL CONDITIONS RTLT: 24h 34m 26s CCSL: B142 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: BC ON	1200 RTLT 24h 34m 22s												0000 RTLT 24h 34m 20s															
FDS MODE	CR-5T												CR-5T															
XB DATA RATE(MI)	160(32)												160(32)															
VGR COVERAGE	ON CALL																											
NOTES	[1] S/C 31=GS-4B @ 2237 XB=2.8K(41) NOT RECOVERABLE																											
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7			
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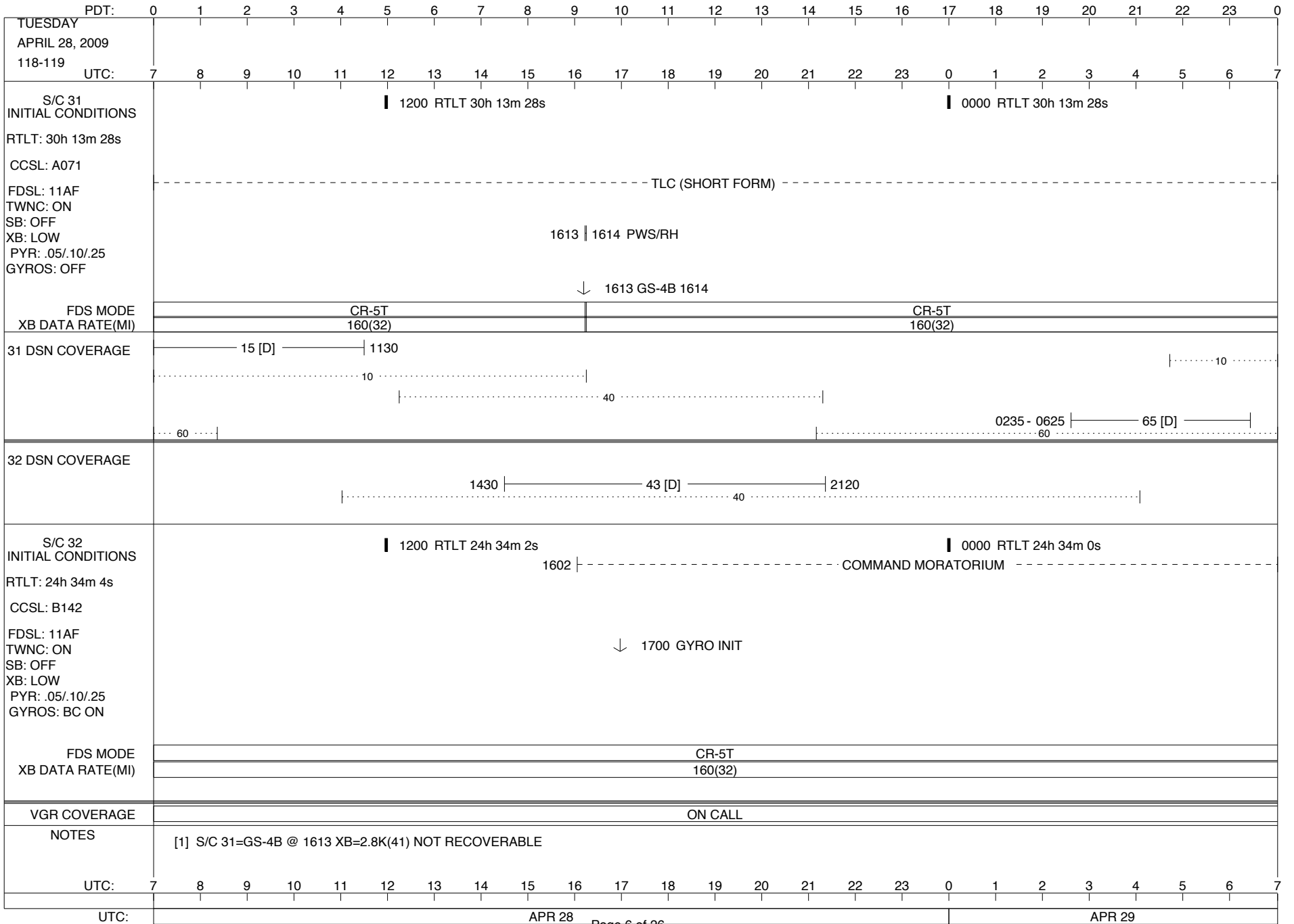




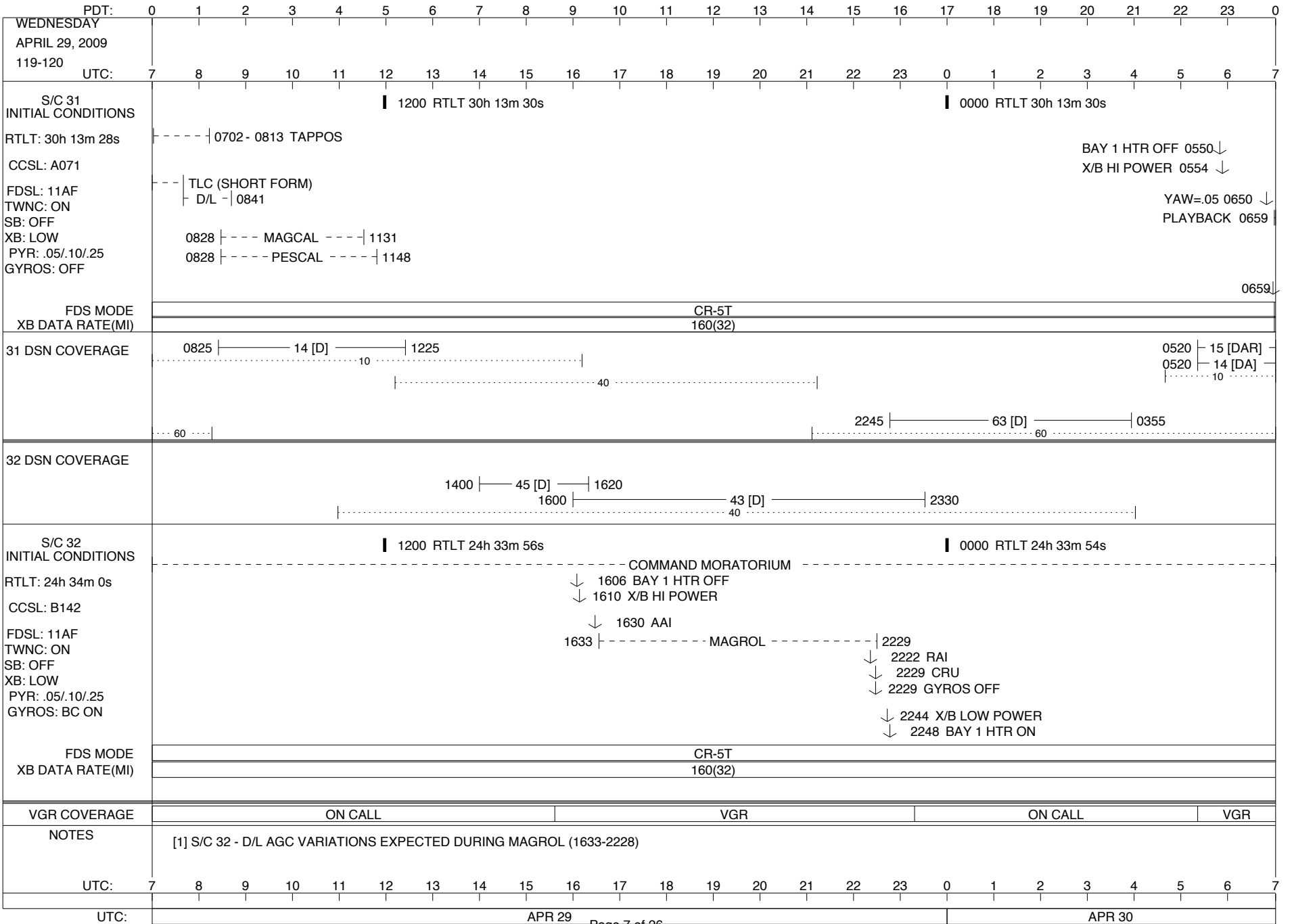
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S/C 31 INITIAL CONDITIONS RTLT: 30h 13m 26s CCSL: A071 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF						█ 1200 RTLT 30h 13m 26s												█ 0000 RTLT 30h 13m 28s							
FDS MODE XB DATA RATE(MI)																									
31 DSN COVERAGE																									
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS RTLT: 24h 34m 10s CCSL: B142 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: BC ON						█ 1200 RTLT 24h 34m 6s												█ 0000 RTLT 24h 34m 4s							
FDS MODE XB DATA RATE(MI)																									
VGR COVERAGE																									
NOTES																									
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
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ISSUE DATE: 04/23/09 14:15

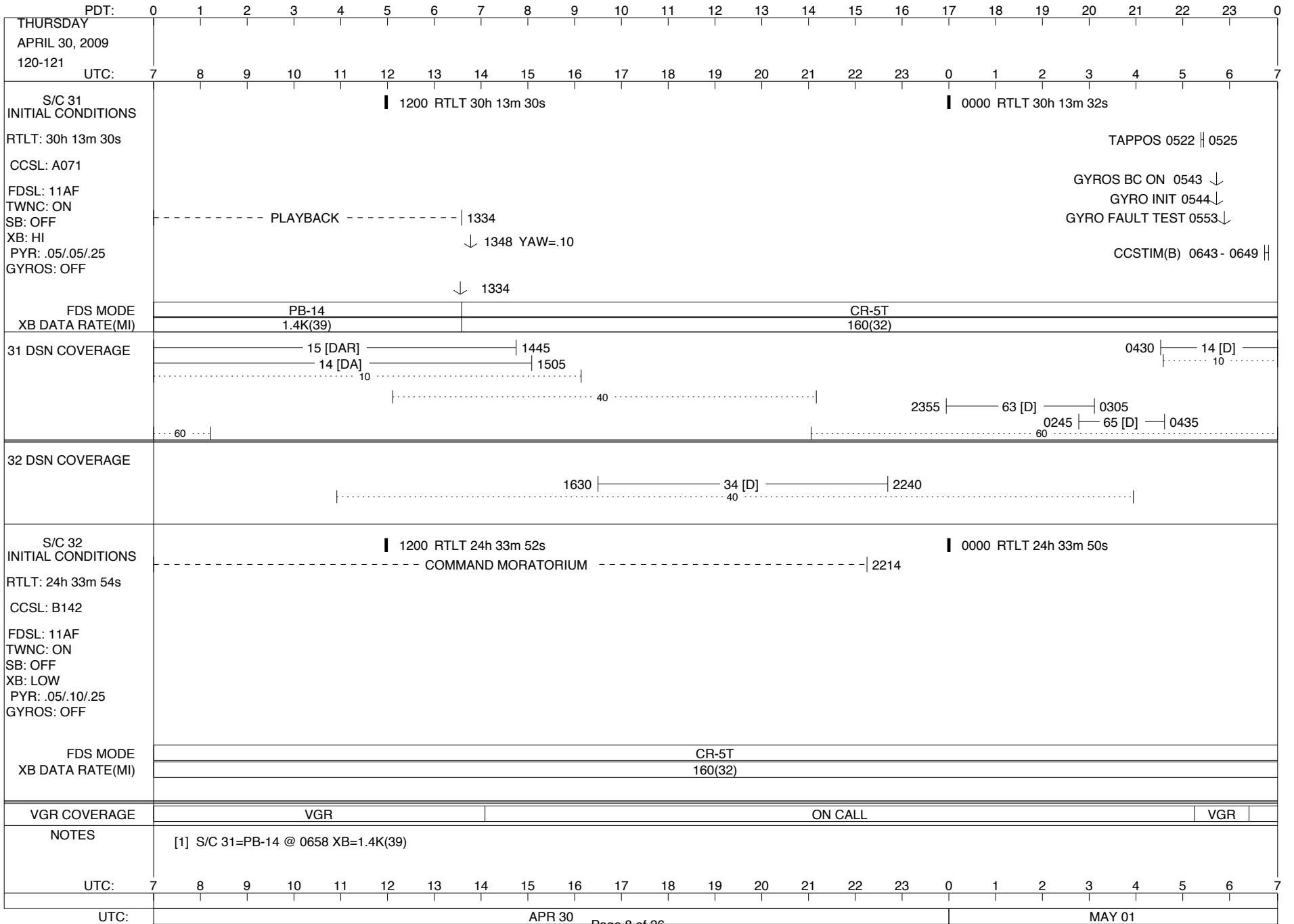


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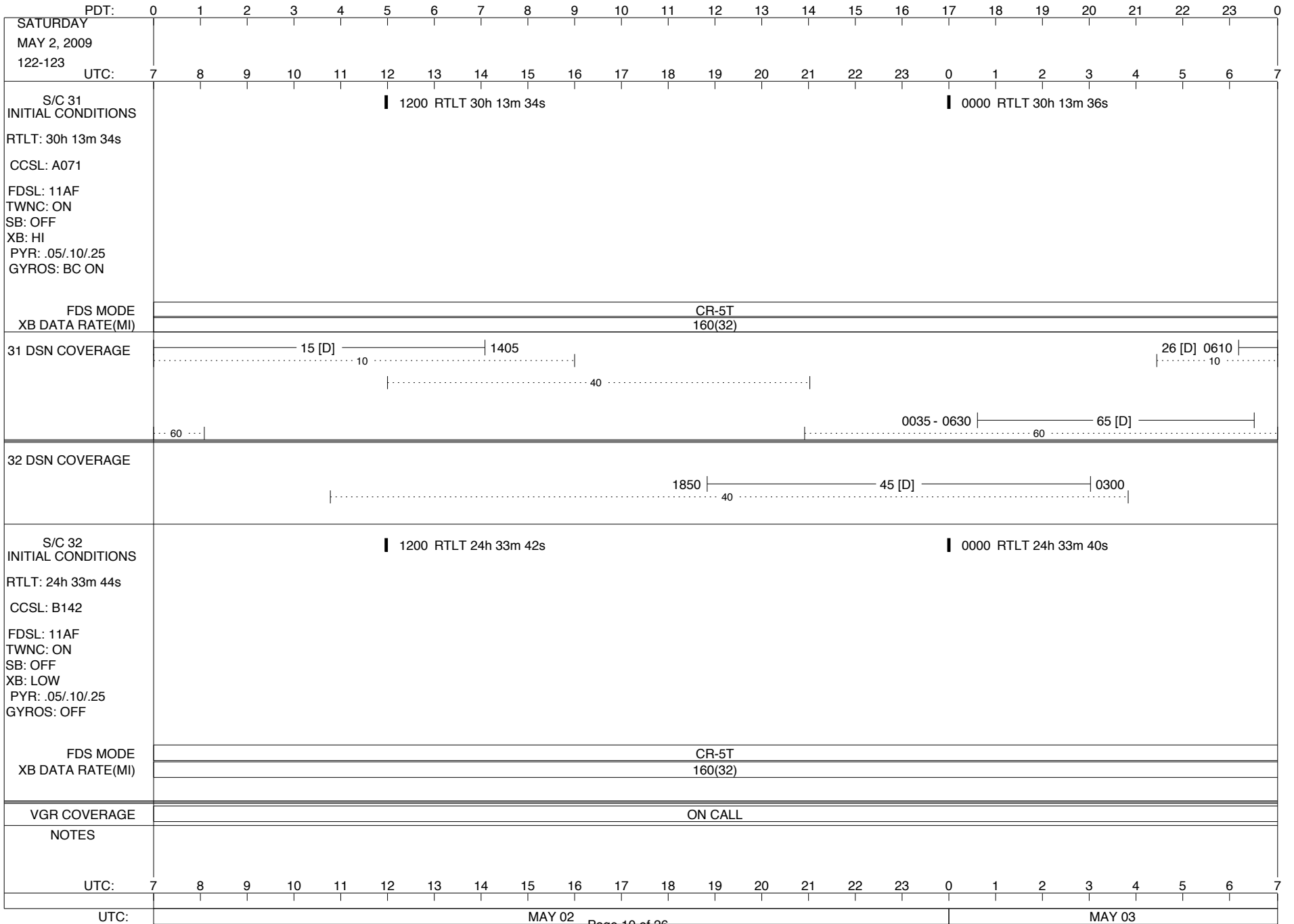


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FRIDAY MAY 1, 2009 121-122	UTC: 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLTL: 30h 13m 32s CCSL: A071 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON	1200 RTLT 30h 13m 32s												0000 RTLT 30h 13m 34s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	14 [D]   1345												0555   15 [D]												
	10												10												
	40												40												
	60												60												
32 DSN COVERAGE	1045   43 [D]   2000																								
	40												40												
S/C 32 INITIAL CONDITIONS RTLTL: 24h 33m 50s CCSL: B142 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 24h 33m 48s												0000 RTLT 24h 33m 44s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE	ON CALL																								
NOTES	[1] S/C 31=GS-4B @ 2213 XB=2.8K(41) NOT RECOVERABLE																								
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
UTC:	MAY 01												MAY 02												



PDT:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	
SUNDAY MAY 3, 2009 123-124	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
S/C 31 INITIAL CONDITIONS RTLT: 30h 13m 36s CCSL: A071 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/10/25 GYROS: BC ON	1200 RTLT 30h 13m 38s												0000 RTLT 30h 13m 38s													
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)													
31 DSN COVERAGE	26 [D]  -----  1215 ..... 10 .....												0550   15 [D]   ..... 10 .....													
	1450  ----- 43 [D] -----  1720 ..... 40 .....												..... 60 .....													
32 DSN COVERAGE	1505  ----- 45 [D] -----  2345 ..... 40 .....																									
S/C 32 INITIAL CONDITIONS RTLT: 24h 33m 40s CCSL: B142 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 24h 33m 38s												0000 RTLT 24h 33m 36s													
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)													
VGR COVERAGE													ON CALL													
NOTES																										
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
UTC:	MAY 03													MAY 04												

ISSUE DATE: 04/23/09 14:15

PDT:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	
MONDAY MAY 4, 2009 124-125																										
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
S/C 31 INITIAL CONDITIONS RTLT: 30h 13m 38s CCSL: A071 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/10/25 GYROS: BC ON	1200 RTLT 30h 13m 40s												0000 RTLT 30h 13m 40s												ALL DB=.05 0659↓	
FDS MODE	CR-5T																								0644↓	
XB DATA RATE(MI)	160(32)																									
31 DSN COVERAGE	15 [D]   0950 0930   10   14 [D]   1445 ..... 40 .....												2120   65 [D]   0420 ..... 60 .....												0400   25 [DAR]   0400   15 [DA]   ..... 10 .....	
32 DSN COVERAGE	1130   43 [D]   1720 ..... 40 .....												1700   34 [D]   1830 ..... 40 .....													
S/C 32 INITIAL CONDITIONS RTLT: 24h 33m 36s CCSL: B142 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 24h 33m 34s												0000 RTLT 24h 33m 30s													
FDS MODE	CR-5T																									
XB DATA RATE(MI)	160(32)																									
VGR COVERAGE	ON CALL																								VGR	
NOTES	[1] S/C 31=EL-40 @ 0644 XB=40(30)																									
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
UTC:	MAY 04														MAY 05											

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PDT:		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0			
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TUESDAY MAY 5, 2009 125-126		S/C 31 INITIAL CONDITIONS RTLT: 30h 13m 40s CCSL: A071 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.05/.05/ GYROS: BC ON													1200 RTLT 30h 13m 42s 0715 AAI 0715 - 0753 ASCAL 0751 RAI 0802 YAW=-.10 0802 ROLL=.25 1549   1550 PWS/RH 0803 GYRO FAULT TEST 0821 MEMUPD - ECR 108587 DTR END USE DELAY 0831   0836 8 SID MRO'S 0756 1549 GS-4B 1550														
FDS MODE XB DATA RATE(MI)		EL-40 40(30)				CR-5T 160(32)									CR-5T 160(32)														
31 DSN COVERAGE		25 [DAR]   1045 15 [DA]   1200 10 40 60													0315   15 [D]   10 2120   65 [D]   0315 60														
32 DSN COVERAGE		1505   43 [D]   2340 40													1200 RTLT 24h 33m 28s 0000 RTLT 24h 33m 26s 1904   PLSCAL -   2046 1904   --- MAGCAL ---   2206 1904   --- PESCAL ---   2224														
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)																											
VGR COVERAGE		VGR													ON CALL														
NOTES		[1] S/C 31=GS-4B @ 1549 XB=2.8K(41) NOT RECOVERABLE																											
UTC:		7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7			
UTC:		MAY 05														MAY 06													

ISSUE DATE: 04/23/09 14:15

PDT:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0		
WEDNESDAY MAY 6, 2009 126-127																											
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7		
S/C 31 INITIAL CONDITIONS RTLT: 30h 13m 44s CCSL: A071 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/10/25 GYROS: BC ON						█ 1200 RTLT 30h 13m 46s												█ 0000 RTLT 30h 13m 46s									
FDS MODE													CR-5T														
XB DATA RATE(MI)													160(32)														
31 DSN COVERAGE	15 [D]   0945												0535   15 [D]														
	.....												.....														
	.....												.....														
	.....												.....														
	.....												.....														
32 DSN COVERAGE	1145   43 [o]   1720																										
	.....												.....														
S/C 32 INITIAL CONDITIONS RTLT: 24h 33m 26s CCSL: B142 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF						█ 1200 RTLT 24h 33m 24s												█ 0000 RTLT 24h 33m 22s									
FDS MODE													CR-5T														
XB DATA RATE(MI)													160(32)														
VGR COVERAGE													ON CALL														
NOTES																											
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7		
UTC:	MAY 06														MAY 07												

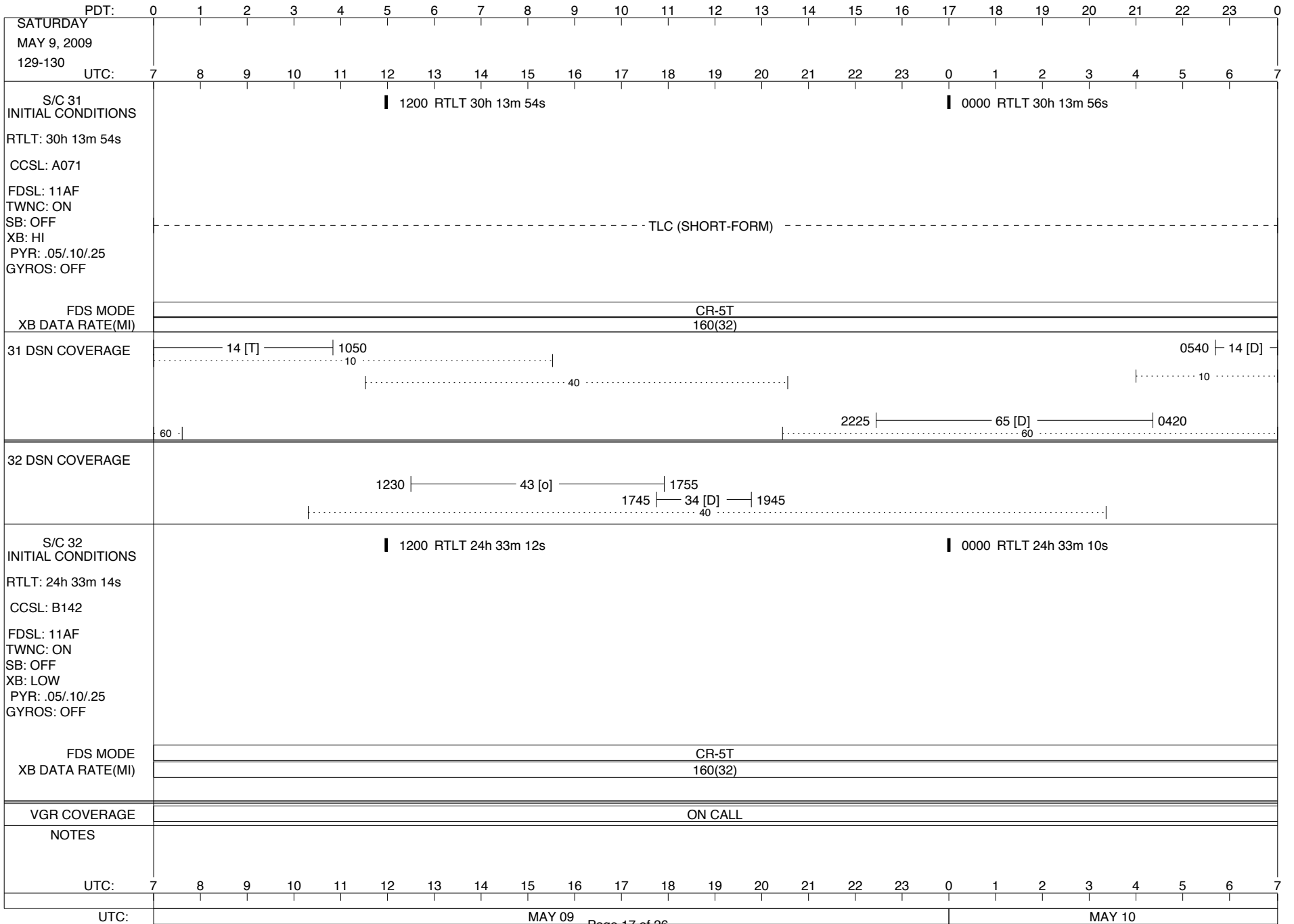
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THURSDAY MAY 7, 2009 127-128																											
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7		
S/C 31 INITIAL CONDITIONS RTLT: 30h 13m 46s CCSL: A071 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/10/25 GYROS: BC ON	1200 RTLT 30h 13m 48s												0000 RTLT 30h 13m 50s														
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)														
31 DSN COVERAGE	15 [D]   1135 1130   14   1445 10     40   60												0510   14 [D]   10   2350   65 [D]   0340 60														
32 DSN COVERAGE	1015   43 [D]   1340   1630   34 [D]   2035 40																										
S/C 32 INITIAL CONDITIONS RTLT: 24h 33m 22s CCSL: B142 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 24h 33m 20s												0000 RTLT 24h 33m 18s														
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)														
VGR COVERAGE	ON CALL						VGR						ON CALL						VGR								
NOTES	[1] S/C 31 - D/L AGC VARIATIONS EXPECTED DURING MAGROL (0643-1252)																										
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7		
UTC:	MAY 07														MAY 08												

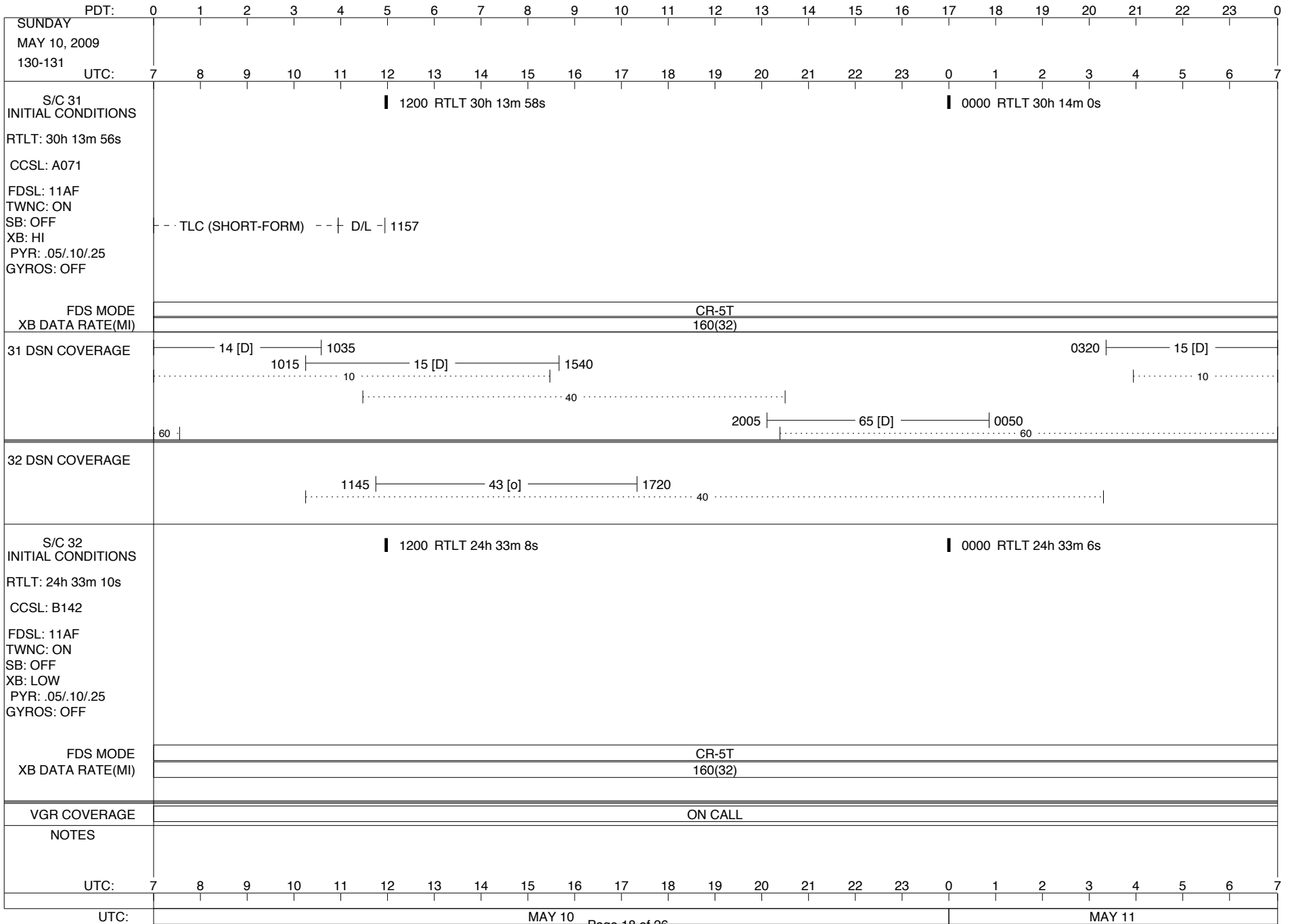


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S/C 31 INITIAL CONDITIONS RTLT: 30h 13m 50s CCSL: A071 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/10/25 GYROS: BC ON	1200 RTLT 30h 13m 52s												0000 RTLT 30h 13m 54s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	14 [D]   1345												0345   14 [T]												
32 DSN COVERAGE	1330   43 [D]   1720												1710   45 [D]   2100												
S/C 32 INITIAL CONDITIONS RTLT: 24h 33m 18s CCSL: B142 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 24h 33m 16s												0000 RTLT 24h 33m 14s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE	VGR												ON CALL												
NOTES	[1] S/C 31=GS-4B @ 2149 XB=2.8K(41) NOT RECOVERABLE																								
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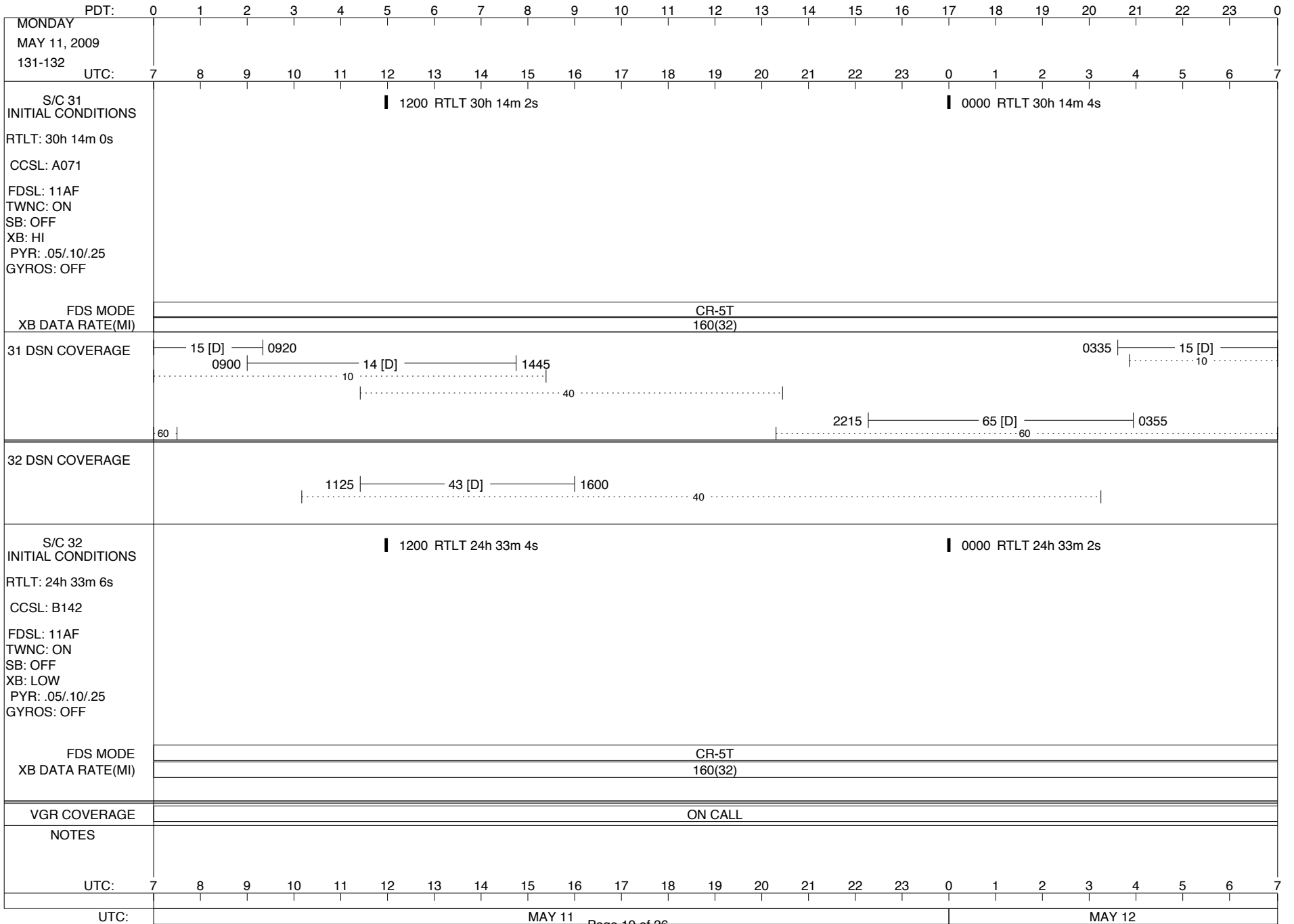
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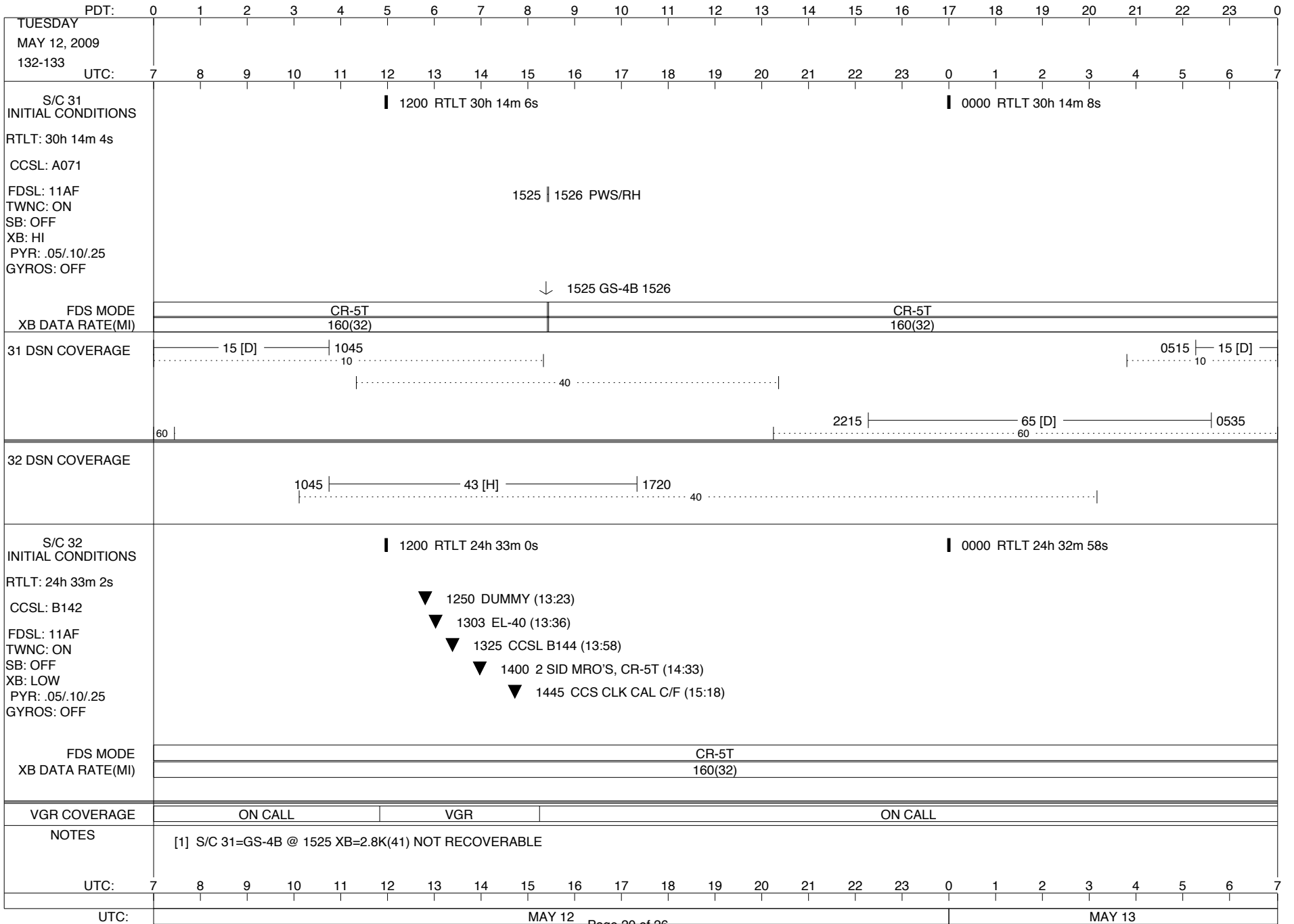


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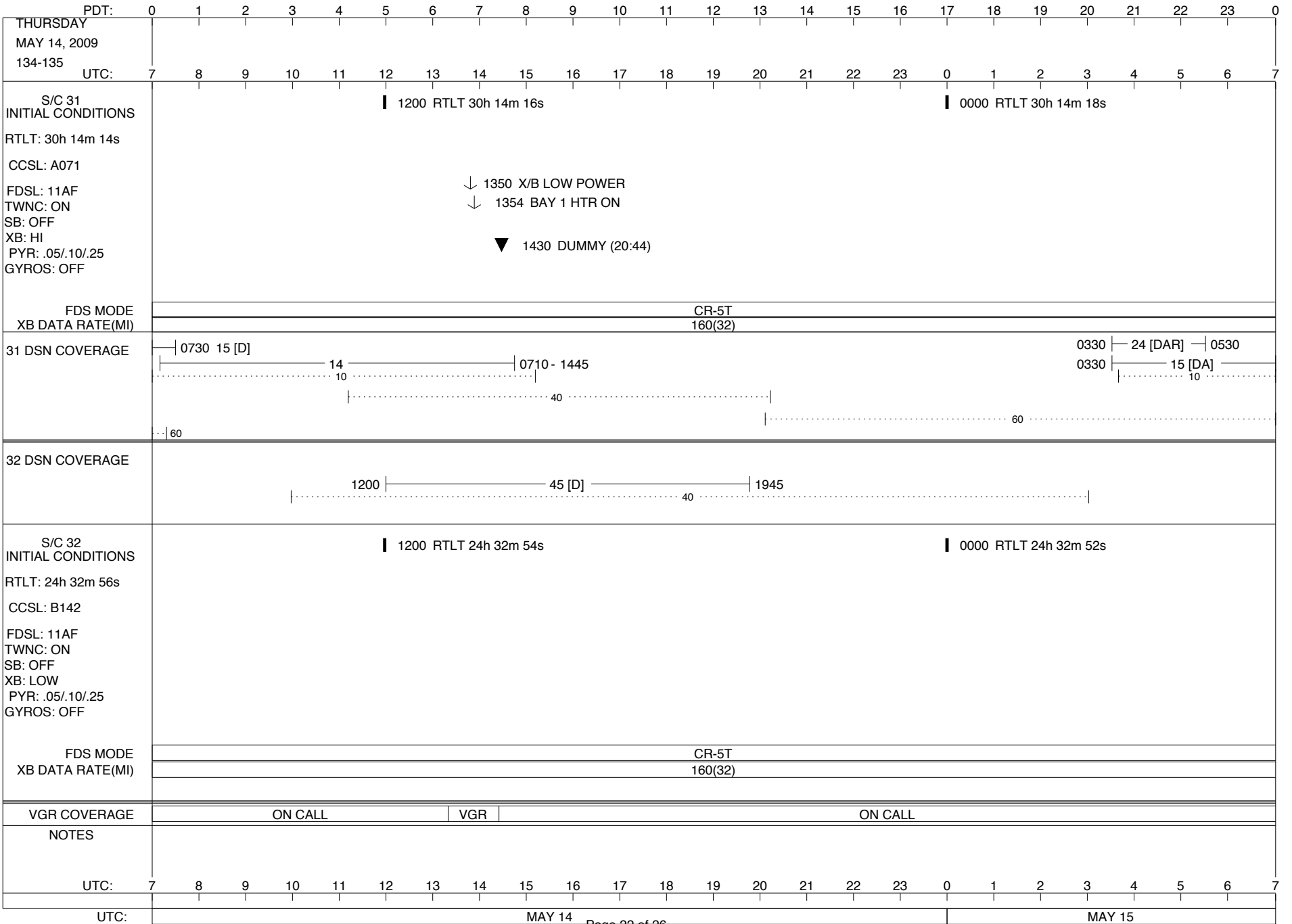




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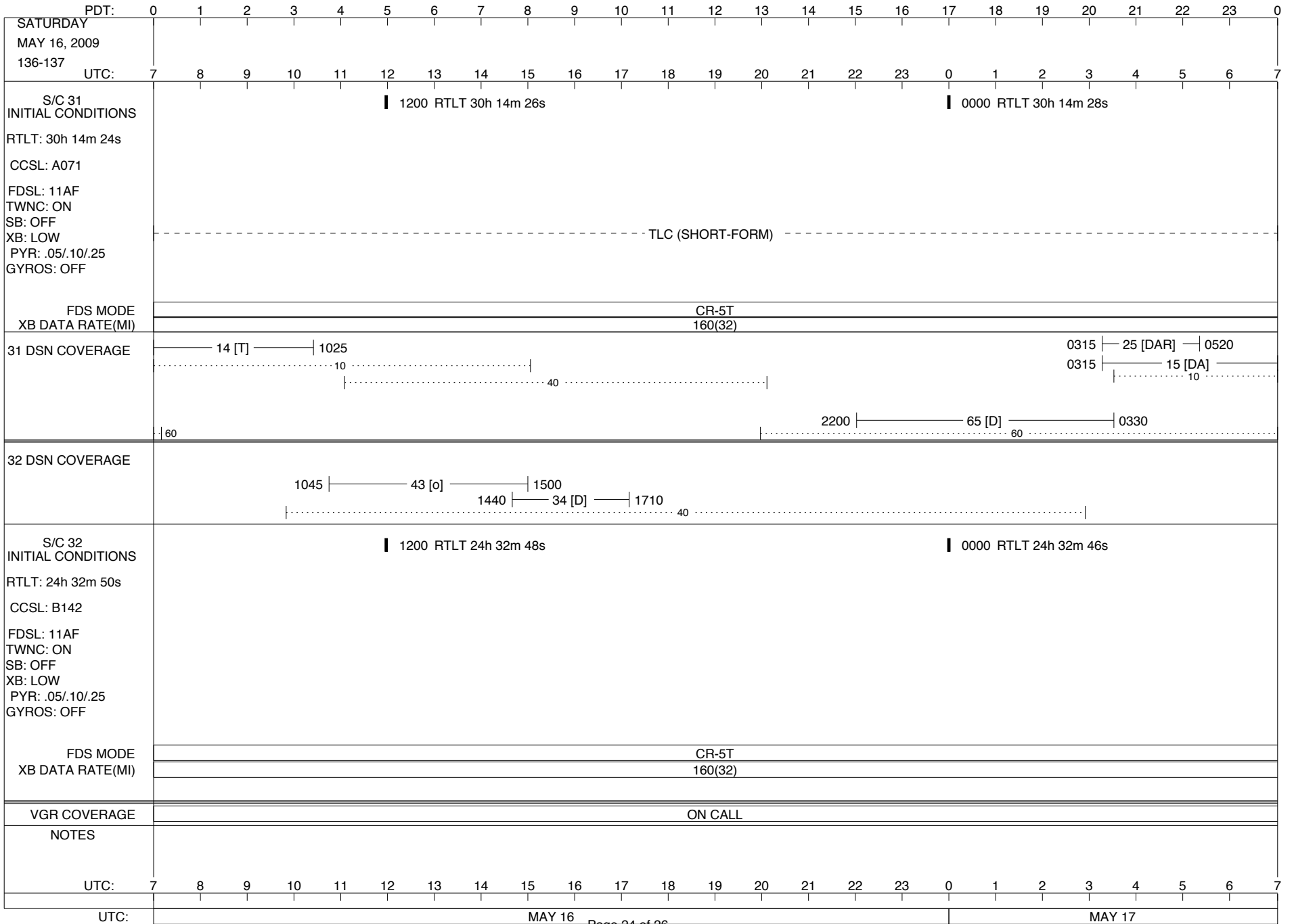
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WEDNESDAY MAY 13, 2009 133-134	UTC: 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLTL: 30h 14m 8s CCSL: A071 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/10/25 GYROS: OFF	1200 RTLTL 30h 14m 12s												0000 RTLTL 30h 14m 14s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
31 DSN COVERAGE	15 [D]   1215												0325   15 [D]												
	10   40												10												
	60												2345   55 [D]   0300												
	60												60												
32 DSN COVERAGE	1015   43 [D]   1725												40												
S/C 32 INITIAL CONDITIONS RTLTL: 24h 32m 58s CCSL: B142 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLTL 24h 32m 58s												0000 RTLTL 24h 32m 56s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)				EL-40 40(30)				CR-5T 160(32)																
VGR COVERAGE	ON CALL				VGR				ON CALL																
NOTES	[1] S/C 32=EL-40 XB=40(30) @ 1337 [2] S/C 32=CR-5T XB=160(32) @ 1437																								
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
UTC:	MAY 13												MAY 14												

ISSUE DATE: 04/23/09 14:15

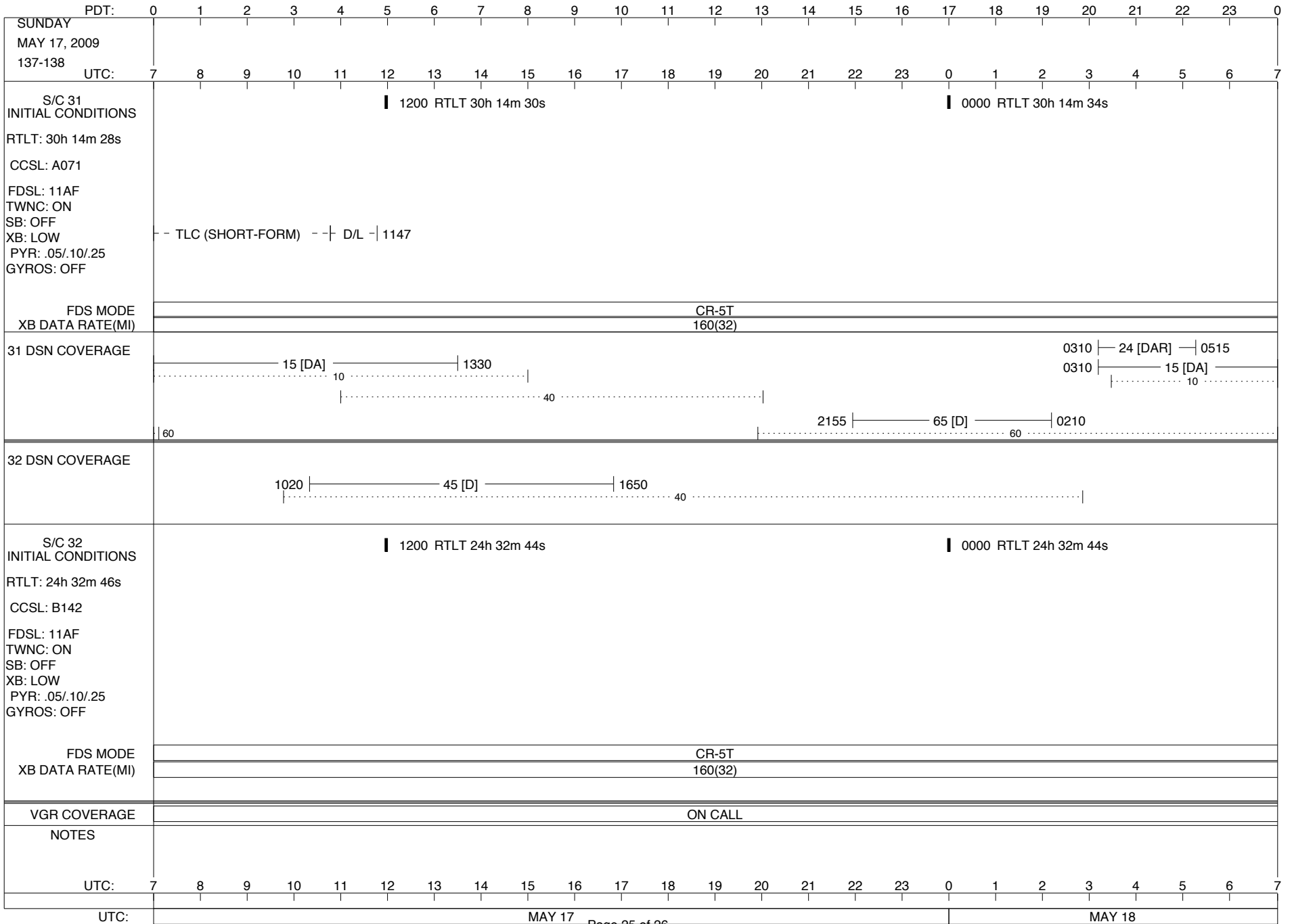


PDT:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	
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UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
S/C 31 INITIAL CONDITIONS RTLT: 30h 14m 18s CCSL: A071 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 30h 14m 20s												0000 RTLT 30h 14m 24s													
	1823   - -   1904 TAPPOS												2125   2126 PWS/RH													
													2333   - - -   0027 TAPPOS													
													U/L 0405   -													
													TLC (SHORT-FORM)   - - - - -													
													↓ 2125 GS-4B 2126													
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
31 DSN COVERAGE	15 [DA]   1120												0335   14 [T]													
	10												10													
	40												40													
	60												60													
	2200   65 [D]   0105												60													
32 DSN COVERAGE	1250   34 [D]   1505																									
	1445   43 [D]   1750																									
	40																									
S/C 32 INITIAL CONDITIONS RTLT: 24h 32m 52s CCSL: B142 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 24h 32m 50s												0000 RTLT 24h 32m 50s													
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
VGR COVERAGE	ON CALL												ON CALL													
NOTES	[1] S/C 31=GS-4B @ 2125 XB=2.8K(41) NOT RECOVERABLE																									
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
UTC:	MAY 15												MAY 16													





ISSUE DATE: 04/23/09 14:15



PDT:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0		
MONDAY MAY 18, 2009 138-139																											
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7		
S/C 31 INITIAL CONDITIONS RTLT: 30h 14m 34s CCSL: A071 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 30h 14m 36s</p> </div>																										
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)													
31 DSN COVERAGE	<div style="text-align: center;"> <p>15 [DA]   1035</p> <p>..... .....40..... </p> <p>60</p> </div>																										
32 DSN COVERAGE	<div style="text-align: center;"> <p>1015   45 [D]   1715</p> </div>																										
S/C 32 INITIAL CONDITIONS RTLT: 24h 32m 44s CCSL: B142 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 24h 32m 42s</p> </div>																										
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)													
VGR COVERAGE	ON CALL																										
NOTES																											
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7		
UTC:	MAY 18													MAY 19													