

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: March 27, 2013

For the Period: 03/28/13 to 04/22/13 (13-087 – 13-112)

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

**SCIENCE**

**FLIGHT TEAM (14) 600-100**

**DSOT (1) 230-102**

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 PWS \*wsk@space.physics.uiowa.edu  
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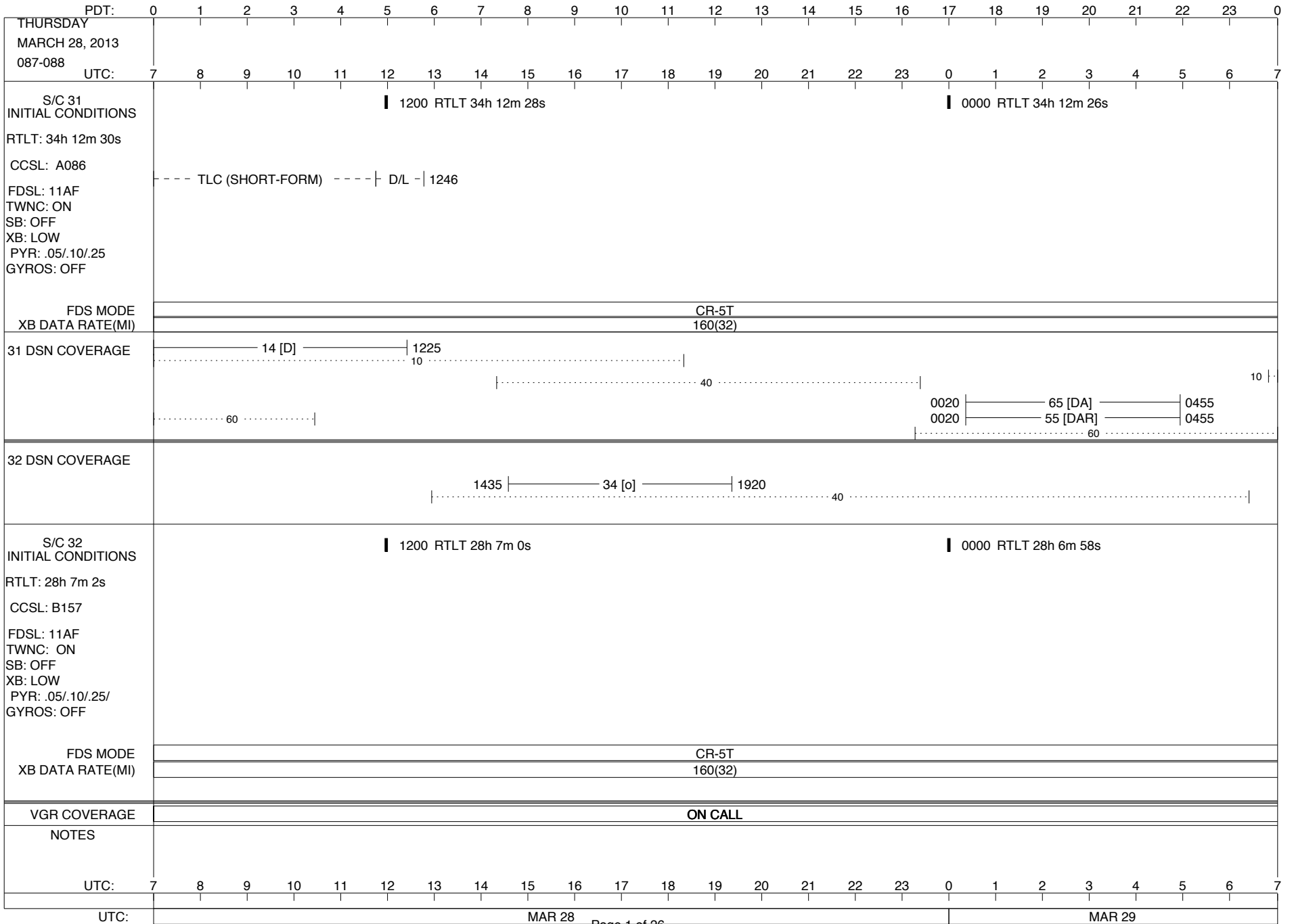
**OTHER**

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**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

\*Electronic Copy Only  
 (16 – Dist/N: Paper Copies)  
 09/08/10

ISSUE DATE: 04/11/13 14:32



ISSUE DATE: 04/11/13 14:32

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S/C 31 INITIAL CONDITIONS RTLTL: 34h 12m 26s CCSL: A086 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 34h 12m 24s												0000 RTLTL 34h 12m 24s													
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
31 DSN COVERAGE	0745	24 [DA]		1225																			10			
	0745	26 [DAR]		1225																						
	.....										.....															
											.....40.....															
											.....2320.....										0605					
	.....60.....										.....60.....															
32 DSN COVERAGE																										
	1430  -----45 [D]-----  1810																									
	.....										1800  -----34 [D]-----  2115															
											.....40.....															
S/C 32 INITIAL CONDITIONS RTLTL: 28h 6m 58s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 28h 6m 56s												0000 RTLTL 28h 6m 52s													
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 @ 0012 XB=2.8K(41) NOT RECOVERABLE																									
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UTC:	MAR 29													MAR 30												

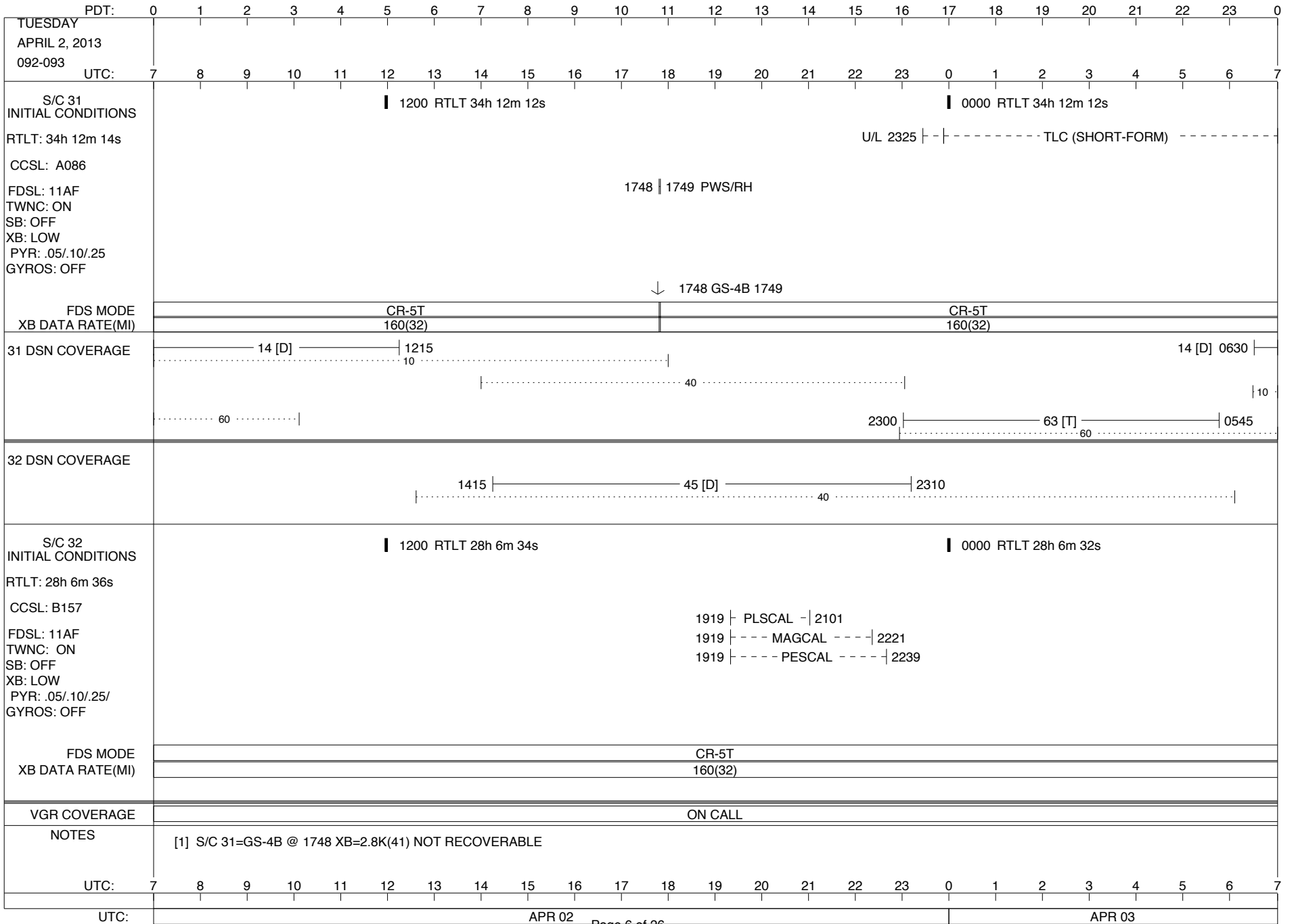
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S/C 31 INITIAL CONDITIONS RTLTL: 34h 12m 24s CCSL: A086 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 34h 12m 22s												0000 RTLT 34h 12m 20s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	0800  ----- 14 [D] -----  1330  ----- 10 -----   ----- 40 -----												0010  ----- 65 [DAR] -----  0410 0010  ----- 55 [DA] -----  0410  ----- 60 -----												
32 DSN COVERAGE	1430  ----- 45 [D] -----  1910  ----- 40 -----																								
S/C 32 INITIAL CONDITIONS RTLTL: 28h 6m 52s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 28h 6m 50s												0000 RTLT 28h 6m 48s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE	ON CALL																								
NOTES																									
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ISSUE DATE: 04/11/13 14:32

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FDS MODE XB DATA RATE(MI)													CR-5T 160(32)													
31 DSN COVERAGE	15 [DA] 0735 - 0925 26 [DAR] 0735 - 0925 ..... 10 ..... ..... 40 ..... ..... 60 .....												14 [D] 0640 ..... 10 ..... 2310 - 0635 ..... 63 [D] ..... ..... 60 .....													
32 DSN COVERAGE	1425 ..... 45 [D] ..... 2040 ..... 40 .....																									
S/C 32 INITIAL CONDITIONS RTLTL: 28h 6m 48s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 28h 6m 44s												0000 RTLT 28h 6m 42s													
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:	MAR 31													APR 01												

ISSUE DATE: 04/11/13 14:32

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MONDAY APRIL 1, 2013 091-092																									
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S/C 31 INITIAL CONDITIONS RTLT: 34h 12m 16s CCSL: A086 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						1200 RTLT 34h 12m 16s												0000 RTLT 34h 12m 14s							
FDS MODE XB DATA RATE(MI)																									
31 DSN COVERAGE				14 [D]				1315																14 [D] 0635	
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS RTLT: 28h 6m 42s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF						1200 RTLT 28h 6m 40s													0000 RTLT 28h 6m 36s						
FDS MODE XB DATA RATE(MI)																									
VGR COVERAGE																									
NOTES																									
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UTC:																									

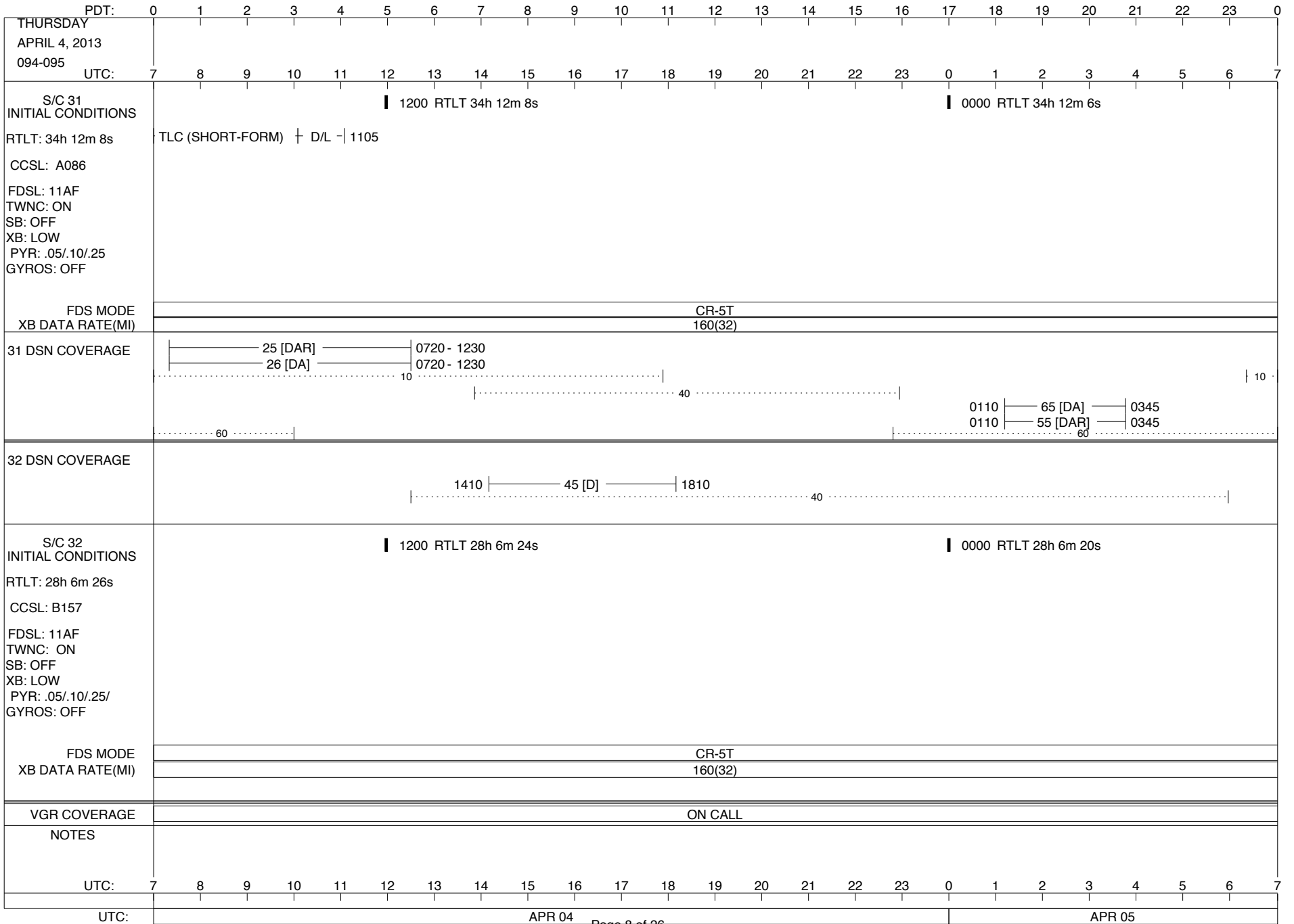


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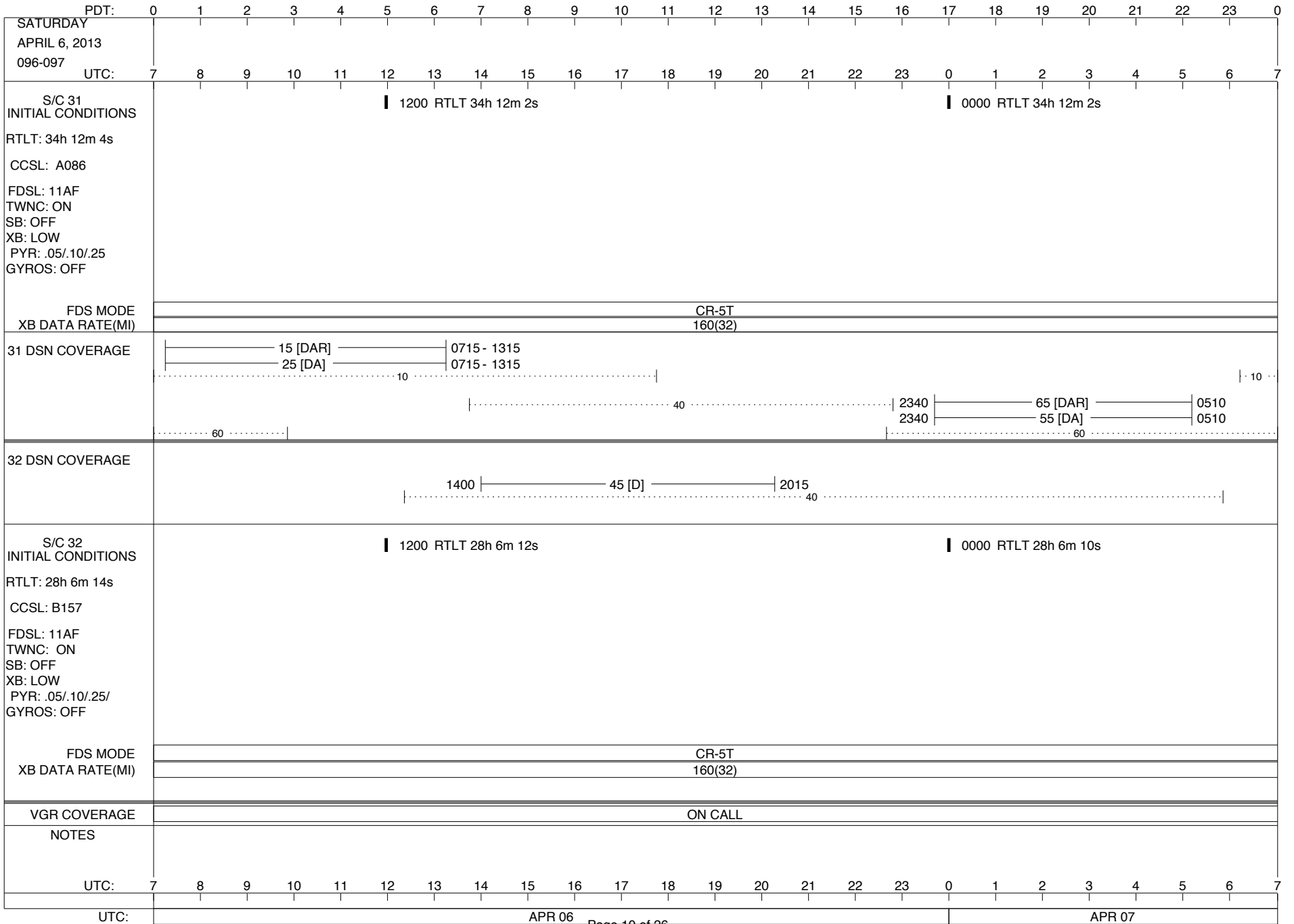
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S/C 31 INITIAL CONDITIONS	1200 RTLT 34h 12m 10s														0000 RTLT 34h 12m 8s													
RTLT: 34h 12m 12s	----- TLC (SHORT-FORM) -----																											
CCSL: A086																												
FDSL: 11AF	* 1034    1038 A087 CHKSUM																											
TWNC: ON																												
SB: OFF																												
XB: LOW	* 1056   1057 2 AHEILIO SID MRO'S																											
PYR: .05/.10/.25																												
GYROS: OFF																												
FDS MODE	CR-5T							EL-40							CR-5T													
XB DATA RATE(MI)	160(32)							40(30)							160(32)													
31 DSN COVERAGE	<p>14 [D]   1000</p> <p>0940   15 [DAR]   1215</p> <p>0940   26 [DA]   1215</p> <p>----- -----</p> <p>60   40   2355   65 [DA]   0535</p> <p>----- ----- ----- -----</p> <p>2355   55 [DAR]   0535</p> <p>----- -----</p> <p>60</p>																											
32 DSN COVERAGE	<p>1645   45 [D]   2045</p> <p>----- -----</p> <p>40</p>																											
S/C 32 INITIAL CONDITIONS	1200 RTLT 28h 6m 28s														0000 RTLT 28h 6m 26s													
RTLT: 28h 6m 32s																												
CCSL: B157																												
FDSL: 11AF																												
TWNC: ON																												
SB: OFF																												
XB: LOW																												
PYR: .05/.10/.25/																												
GYROS: OFF																												
FDS MODE	CR-5T																											
XB DATA RATE(MI)	160(32)																											
VGR COVERAGE	ON CALL							VGR							ON CALL													
NOTES	<p>[1] S/C 31=EL-40 XB=40(30) @ 1000</p> <p>[2] S/C 31=CR-5T XB=160(32) @ 1100</p>																											
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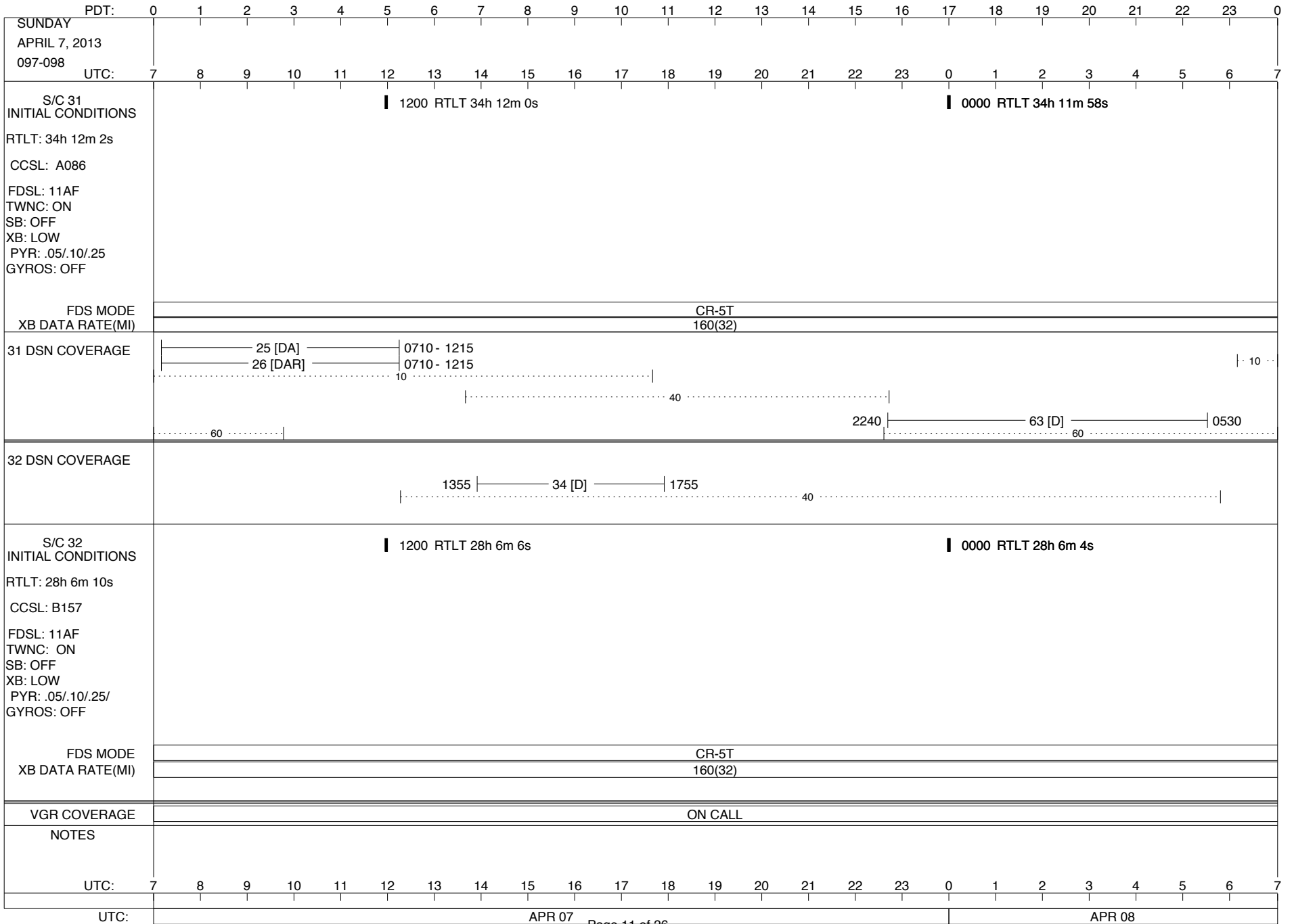


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S/C 31 INITIAL CONDITIONS RTLTL: 34h 12m 6s CCSL: A086 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 34h 12m 4s												0000 RTLTL 34h 12m 4s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	15 [DAR] 0720 - 1225 25 [DA] 0720 - 1225 ..... 10 ..... ..... 40 ..... ..... 60 .....												0045 65 [DA] 0455 0045 55 [DAR] 0455 ..... 60 .....												
32 DSN COVERAGE	1615 34 [D] 2205 ..... 40 .....																								
S/C 32 INITIAL CONDITIONS RTLTL: 28h 6m 20s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 28h 6m 18s												0000 RTLTL 28h 6m 14s												
FDS MODE	CR-5T																								
XB DATA RATE(MI)	160(32)																								
VGR COVERAGE													ON CALL												
NOTES	[1] S/C 31=GS-4B @ 2348 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:	APR 05												APR 06												

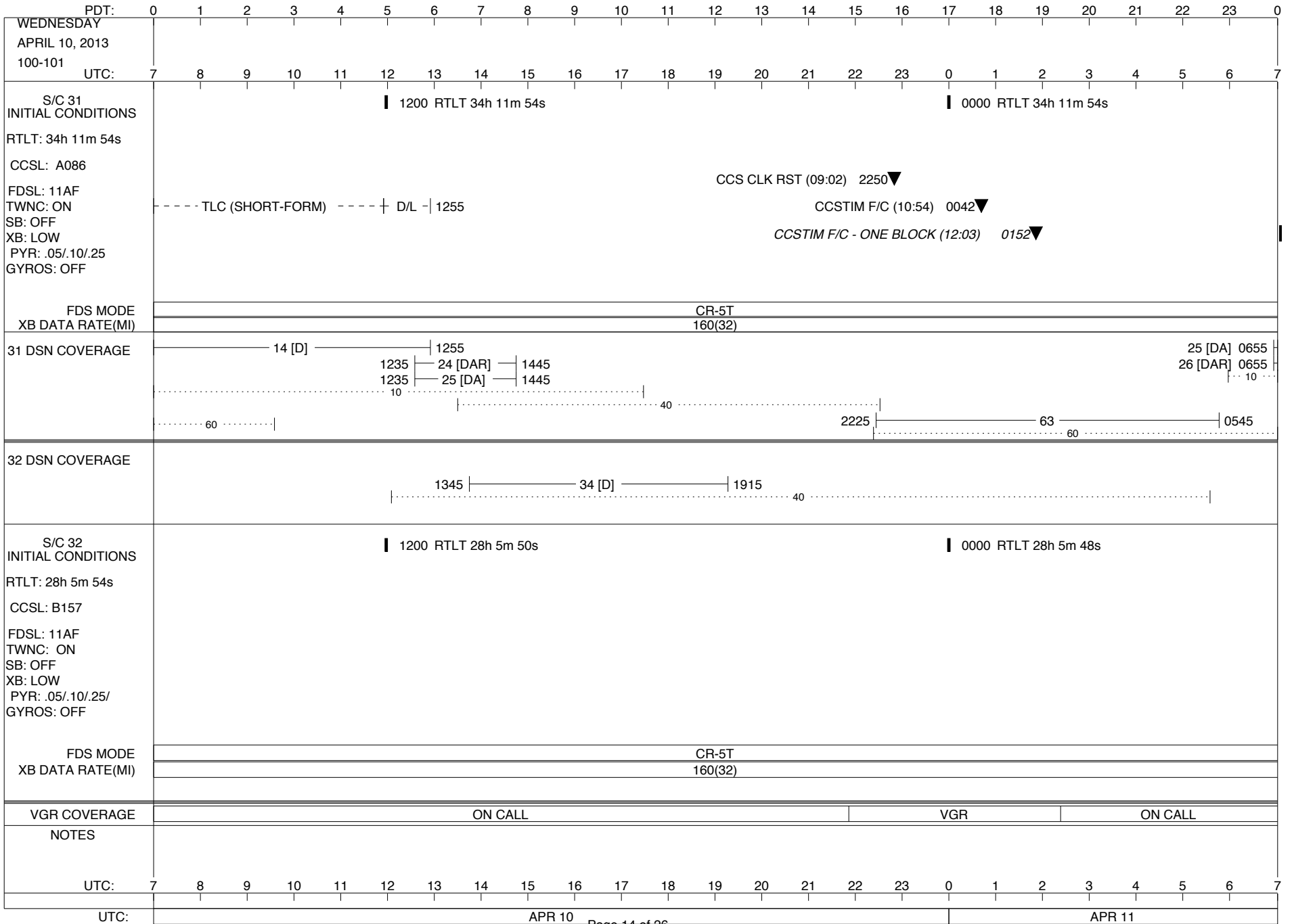




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S/C 31 INITIAL CONDITIONS RTLTL: 34h 11m 58s CCSL: A086 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						1200													0000						
FDS MODE XB DATA RATE(MI)																									
31 DSN COVERAGE																									
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS RTLTL: 28h 6m 4s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF						1200													0000						
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
UTC:																									

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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S/C 31 INITIAL CONDITIONS RTLTL: 34h 11m 56s CCSL: A086 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 34h 11m 56s												0000 RTLT 34h 11m 54s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	15 [DA] 0700 - 1100												0600   14 [D]												
	25 [DAR] 1100   1445												0700 - 1445												
	10   26 [DA]												40												
	60												60												
32 DSN COVERAGE	1400   34 [D]   1945												40												
S/C 32 INITIAL CONDITIONS RTLTL: 28h 5m 58s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 28h 5m 56s												0000 RTLT 28h 5m 54s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE													ON CALL												
NOTES	[1] S/C 31=GS-4B @ 1724 XB=2.8K(41) NOT RECOVERABLE																								
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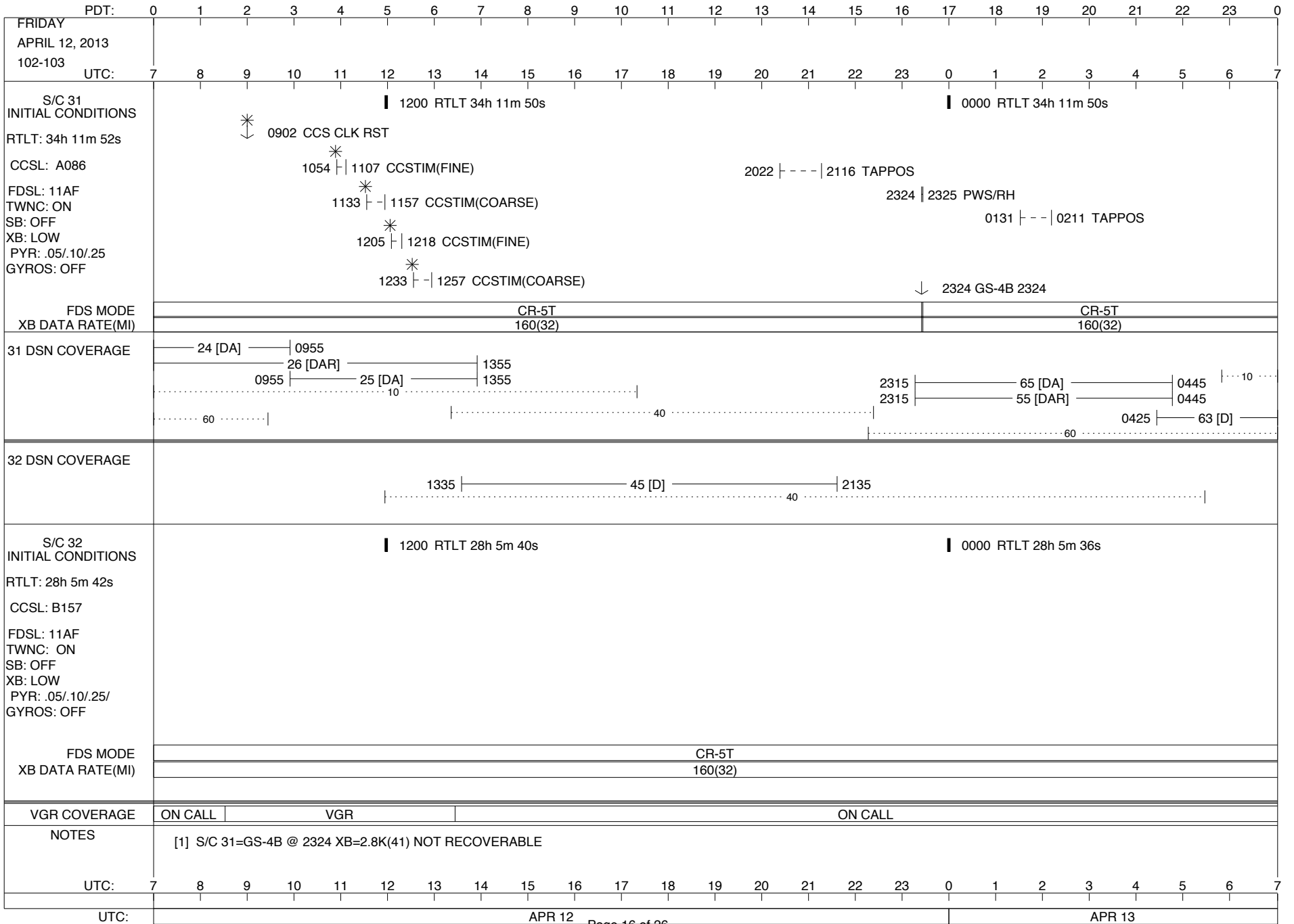


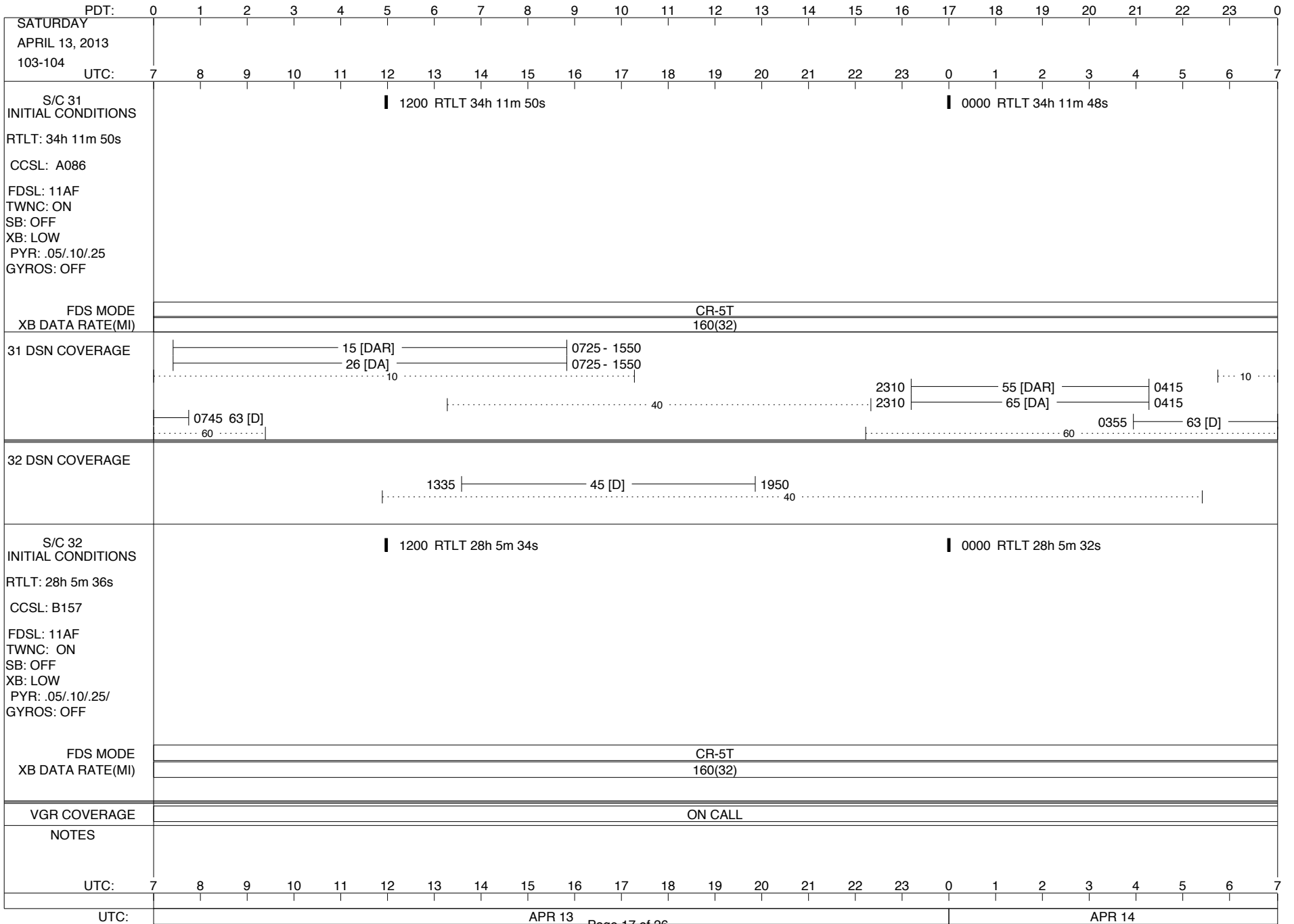
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S/C 31 INITIAL CONDITIONS RTLTL: 34h 11m 54s CCSL: A086 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 34h 11m 52s												0000 RTLTL 34h 11m 52s													
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
31 DSN COVERAGE	25 [DA] 1210										24 [DA] 0650															
	26 [DAR] 1210										26 [DAR] 0650															
	10										10															
	60										60															
32 DSN COVERAGE	1340										34 [D] 2145															
	40										40															
S/C 32 INITIAL CONDITIONS RTLTL: 28h 5m 48s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 28h 5m 44s												0000 RTLTL 28h 5m 42s													
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	
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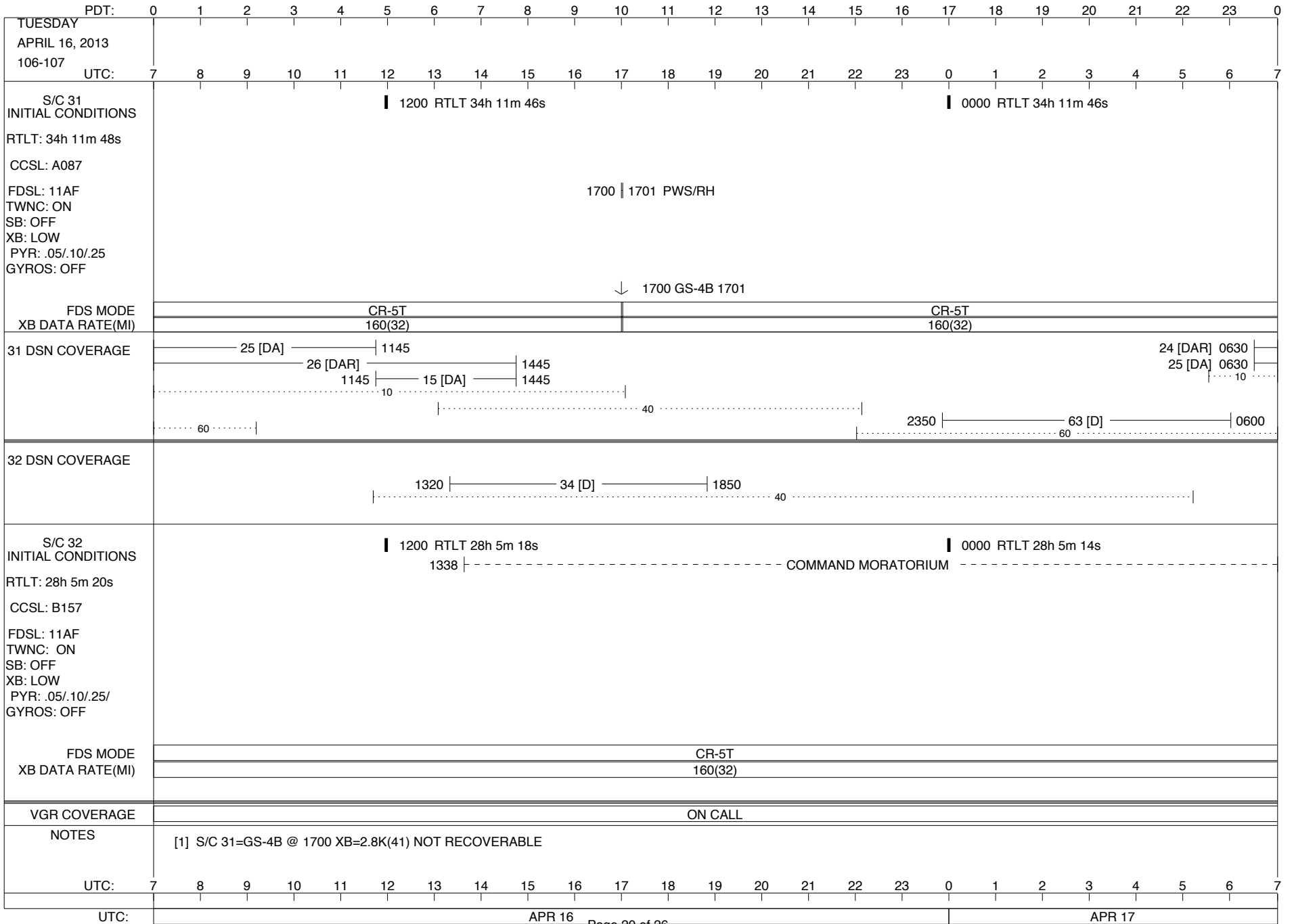
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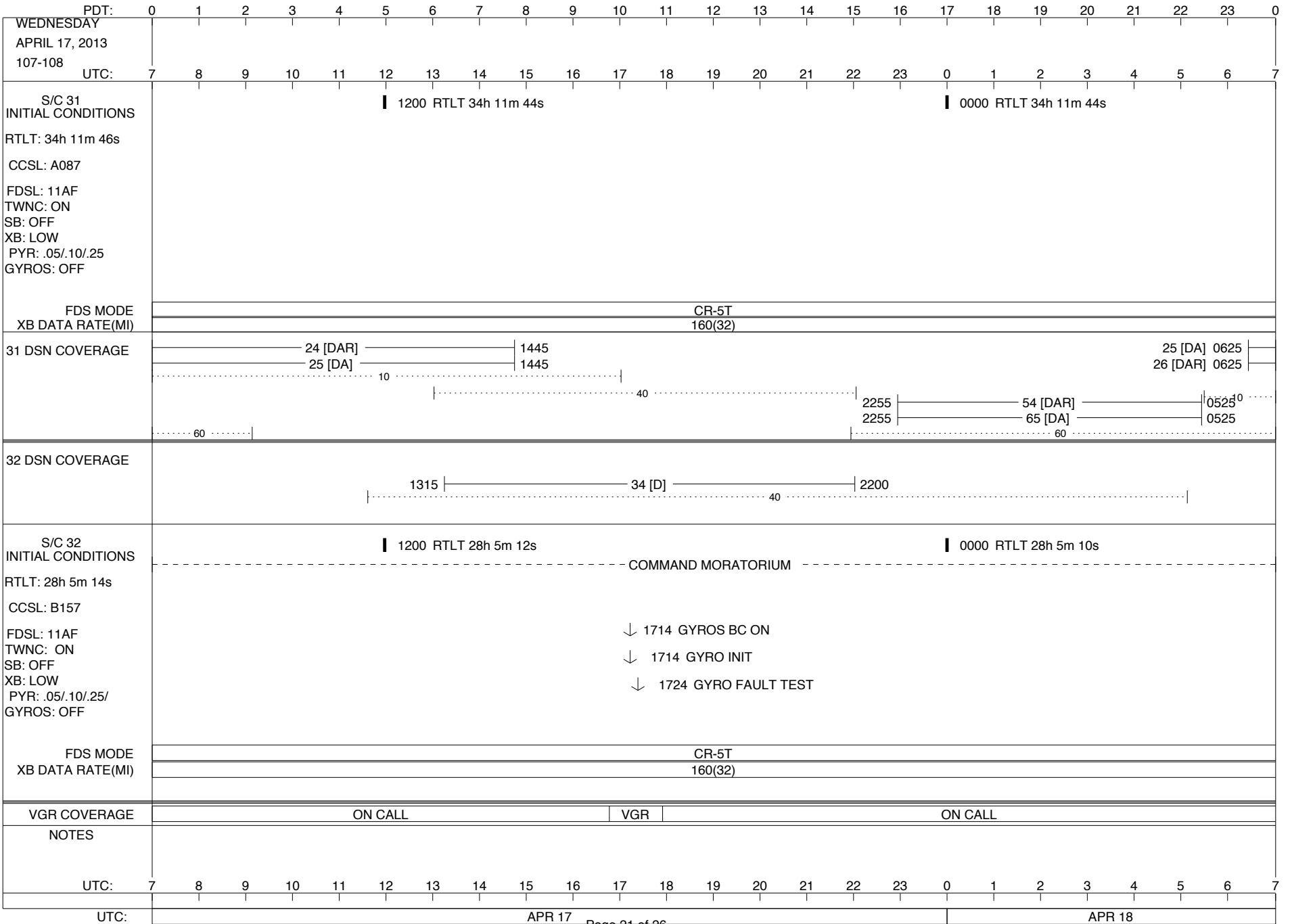


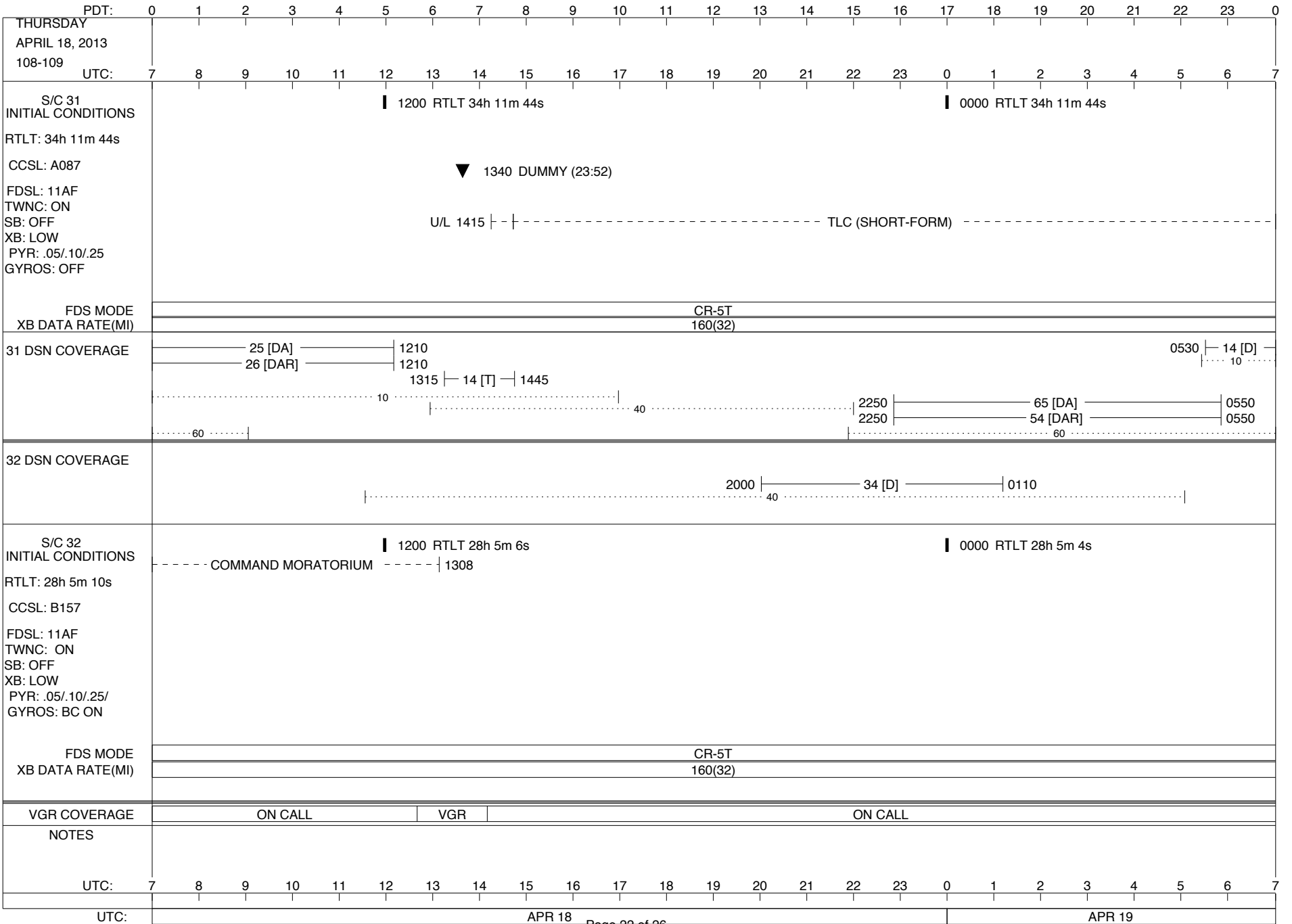
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S/C 31 INITIAL CONDITIONS RTLTL: 34h 11m 48s CCSL: A086 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 34h 11m 48s																										
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)													
31 DSN COVERAGE																											
32 DSN COVERAGE																											
S/C 32 INITIAL CONDITIONS RTLTL: 28h 5m 32s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 28h 5m 28s													0000 RTLTL 28h 5m 26s													
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)													
VGR COVERAGE	ON CALL																										
NOTES																											
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S/C 31 INITIAL CONDITIONS RTLT: 34h 11m 48s CCSL: A086 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	↓ 0215 BEGIN SEQUENCE A087																									
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)													
31 DSN COVERAGE	14 [D]   1245														25 [DA] 0635 26 [DA] 0635											
	..... 10 .....										2305   55 [DAR]   0255 2305   65 [DA]   0255				0245   63 [D]   0545 ..... 60 .....											
32 DSN COVERAGE	1325   34 [D]   2210 ..... 40 .....																									
S/C 32 INITIAL CONDITIONS RTLT: 28h 5m 26s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 28h 5m 24s													0000 RTLT 28h 5m 20s												
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	
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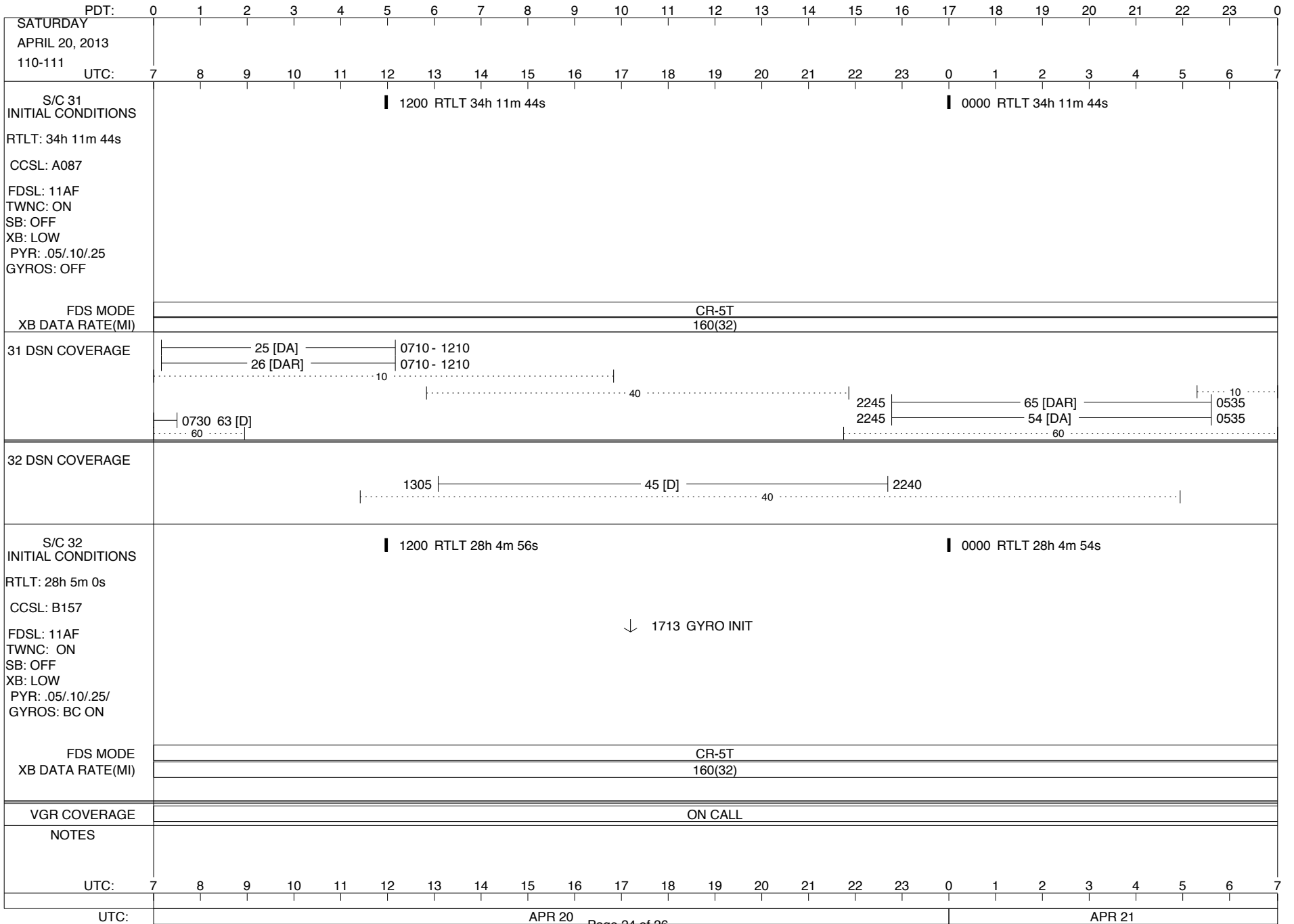
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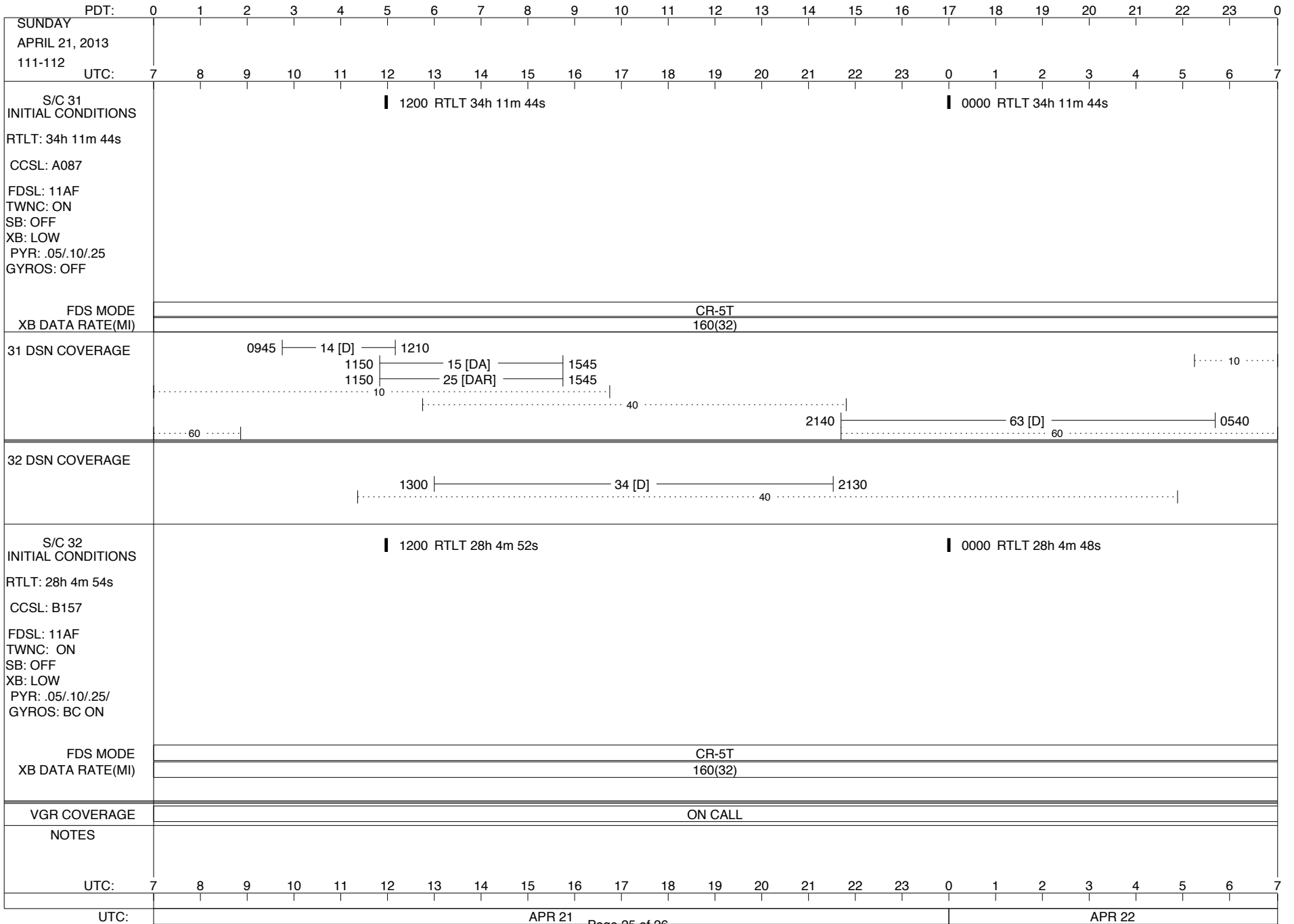




	PDT:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	
FRIDAY APRIL 19, 2013 109-110	UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
S/C 31 INITIAL CONDITIONS RTLTL: 34h 11m 44s CCSL: A087 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLT 34h 11m 44s											0000 RTLT 34h 11m 44s														
													1958   -   2024 TAPPOS														
													2300   2301 PWS/RH														
													TLC (SHORT-FORM) ----- + D/L -   0155														
													0107   -   0120 TAPPOS														
													↓ 2300 GS-4B 2301														
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)											CR-5T 160(32)														
31 DSN COVERAGE		14 [D] -----   1235 ..... 10 .....   ..... 40 .....   ..... 60 .....											2150  ----- 63 [D] ----- ..... 60 .....														
32 DSN COVERAGE		1310  ----- 34 [D] -----   2335 ..... 40 .....																									
S/C 32 INITIAL CONDITIONS RTLTL: 28h 5m 4s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: BC ON		1200 RTLT 28h 5m 2s											0000 RTLT 28h 5m 0s														
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)														
VGR COVERAGE													ON CALL														
NOTES		[1] S/C 31=GS-4B @ 2300 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:	APR 19													APR 20												







ISSUE DATE: 04/11/13 14:32

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 APRIL 22, 2013 112-113	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: 34h 11m 44s CCSL: A087 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 34h 11m 44s																										
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)													
31 DSN COVERAGE	1010  -----  14 [D]  -----  1445 ..... -----  ..... -----  40 .....  ..... 60 .....																										
32 DSN COVERAGE	1255  -----  45 [D]  -----  2145																										
S/C 32 INITIAL CONDITIONS RTLT: 28h 4m 48s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: BC ON	1200 RTLT 28h 4m 46s																										
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:	APR 22													APR 23													