

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: January 7, 2009

For the Period: 01/08/09 to 01/26/09 (09-008– 09-026)

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

**SCIENCE**

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

**DSOT (1) 230-102**

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 \*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**

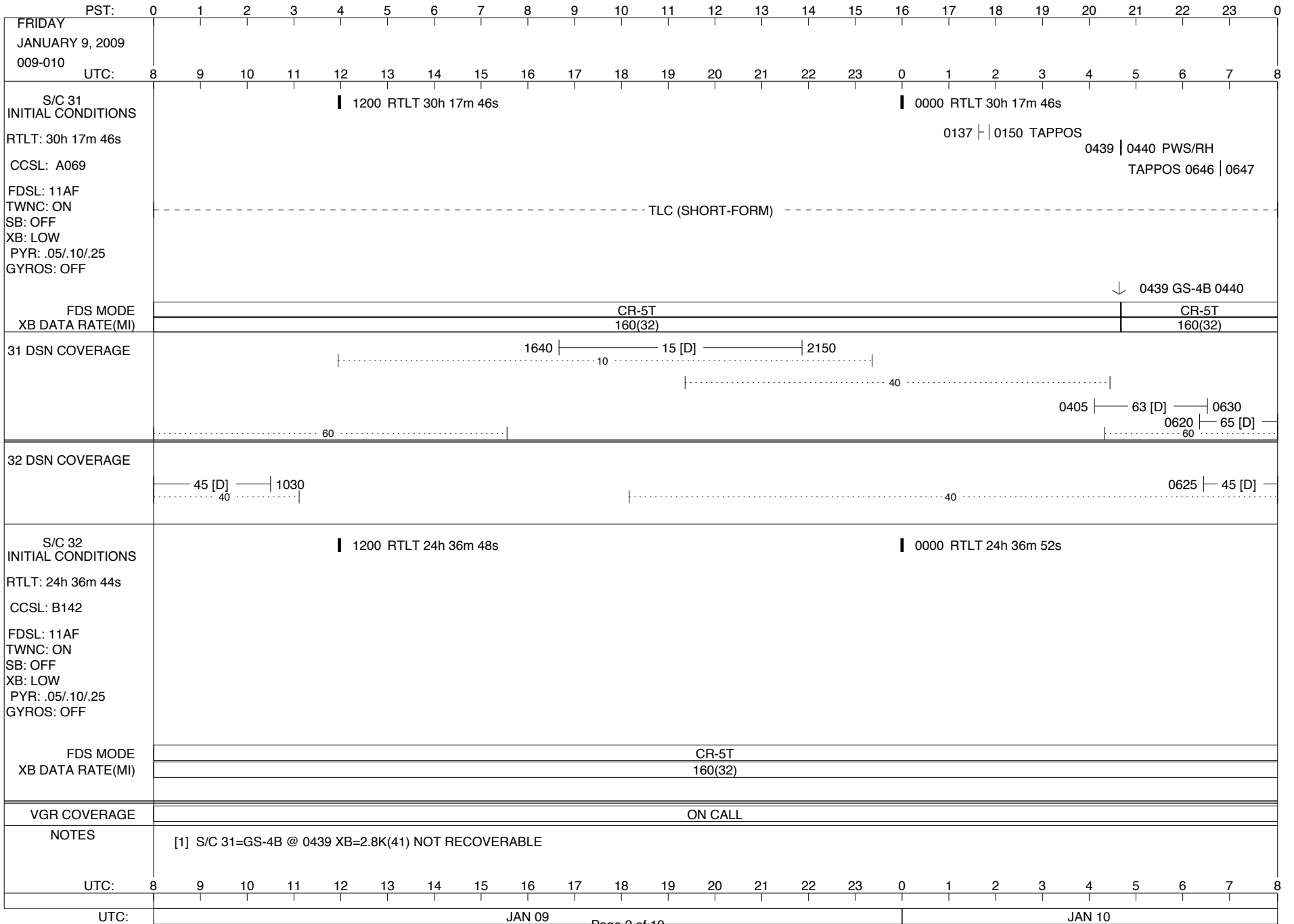
\* KMassey@jgld.gdscc.nasa.gov  
 \* Belinda.Arroyo@jpl.nasa.gov  
 \* Peter.T.Poon@jpl.nasa.gov  
 \* DSN-MPSETA@jjpl.jpl.nasa.gov

**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

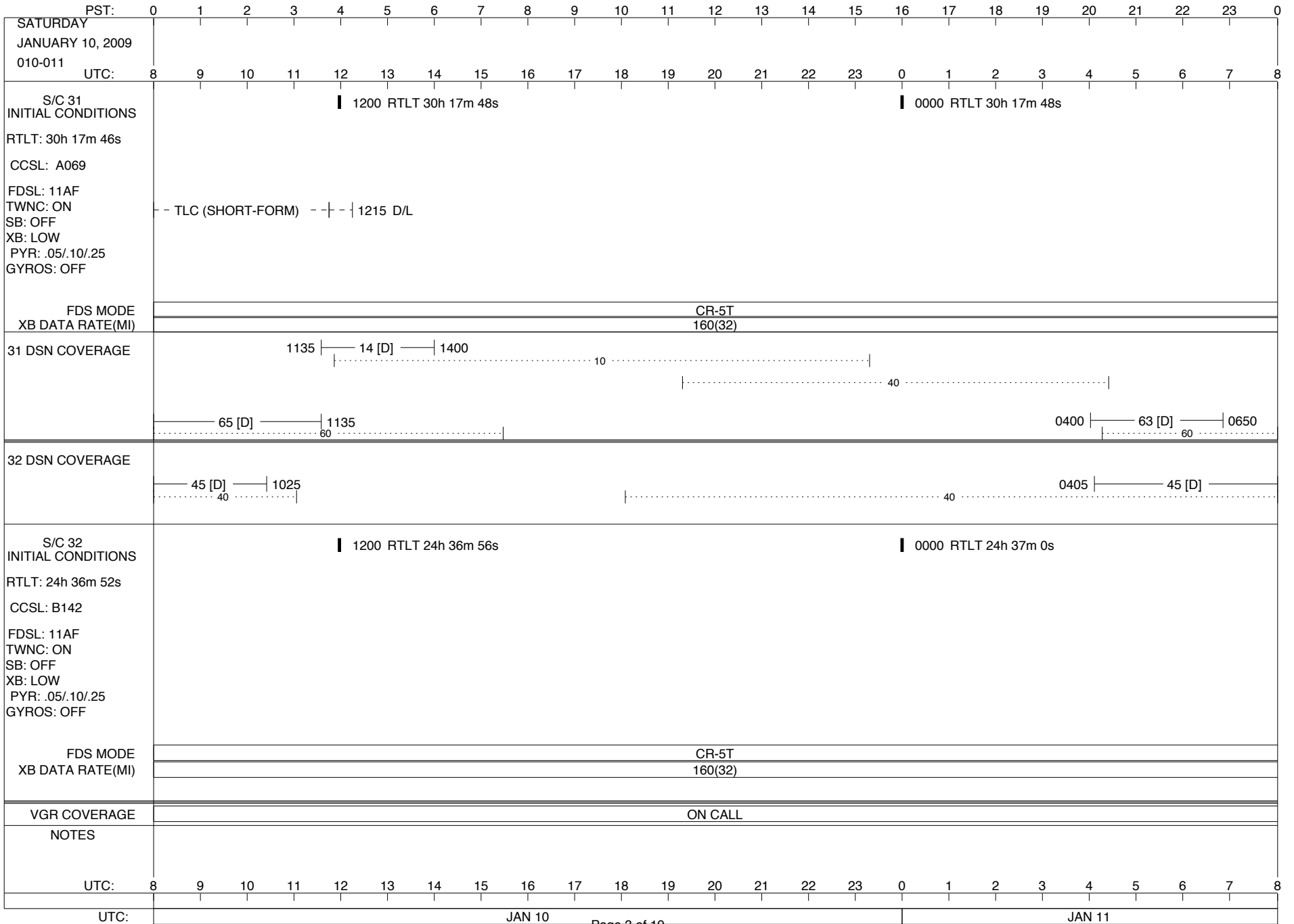
\*Electronic Copy Only  
 (17 – Dist/N: Paper Copies)  
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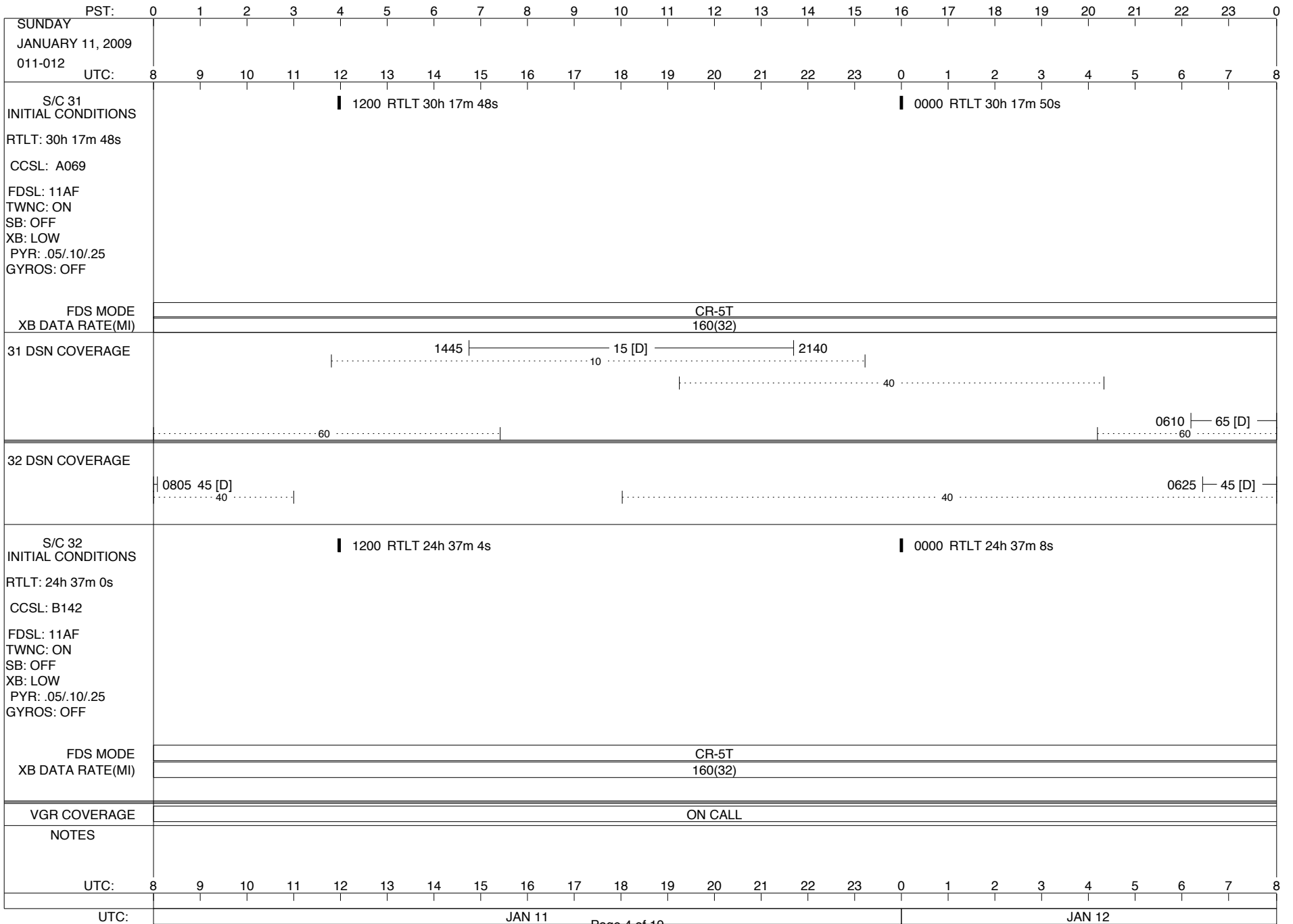
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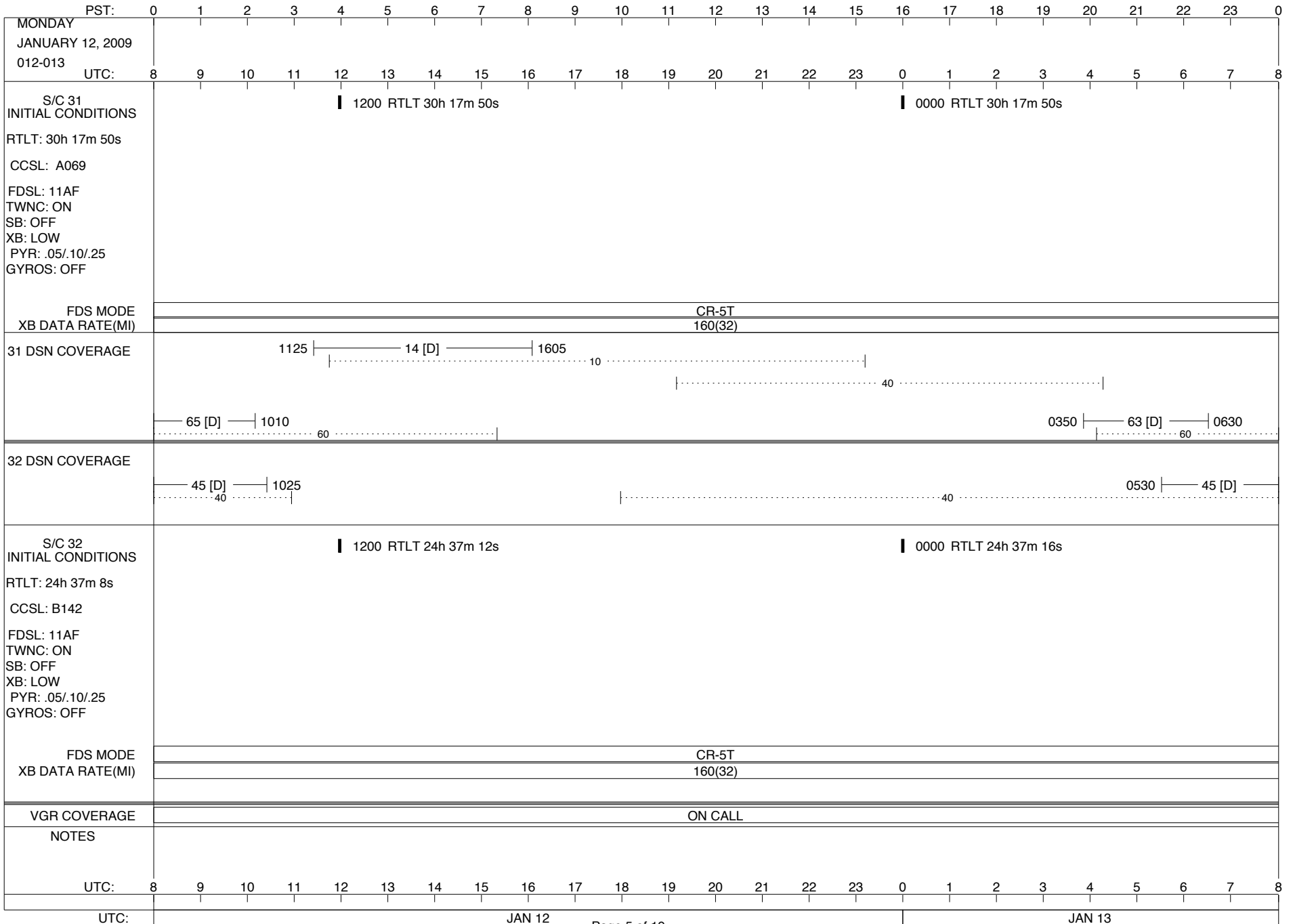
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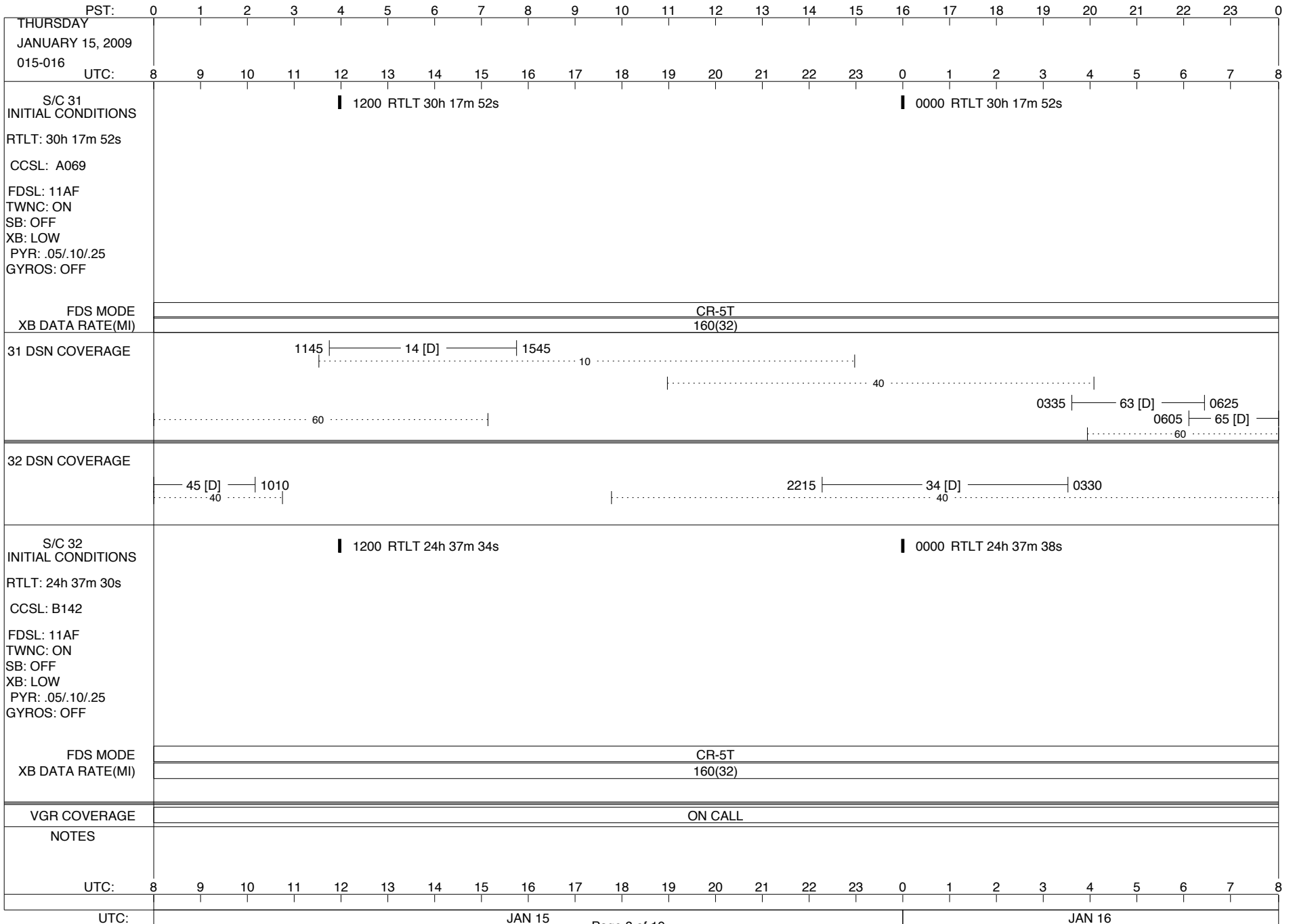
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S/C 31 INITIAL CONDITIONS RTLTL: 30h 17m 50s CCSL: A069 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 30h 17m 52s												0000 RTLT 30h 17m 52s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	1140  -----  14 [D]  -----  1555 ..... -----  10 ..... -----  40 ..... -----  60												2215   2216 PWS/RH ↓ 2215 GS-4B 2216 0445  -----  63 [D]  -----  0645 ..... -----  60 65 [D] 0720  -----												
32 DSN COVERAGE	45 [D]  -----  0955 ..... -----  40												2315  -----  45 [D]  -----  0515 ..... -----  40												
S/C 32 INITIAL CONDITIONS RTLTL: 24h 37m 16s CCSL: B142 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 24h 37m 20s												0000 RTLT 24h 37m 24s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												0130   PLSCAL -   0312 0130   --- MAGCAL ---   0432 0130   --- PESCAL ---   0450												
VGR COVERAGE	ON CALL																								
NOTES	[1] S/C 31=GS-4B @ 2215 XB=2.8K(41) NOT RECOVERABLE																								
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
UTC:	JAN 13												JAN 14												

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PST:	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 JANUARY 14, 2009 014-015																									
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLTL: 30h 17m 52s CCSL: A069 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 30h 17m 52s												█ 0000 RTLTL 30h 17m 52s												
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
31 DSN COVERAGE	1120  ----- 14 [D] -----  1555  ----- 10 -----   ----- 40 -----												65 [D] -----  1140  ----- 60 -----												
32 DSN COVERAGE	----- 40 -----												----- 40 -----  0610  ----- 45 [D] -----												
S/C 32 INITIAL CONDITIONS RTLTL: 24h 37m 24s CCSL: B142 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 24h 37m 28s												█ 0000 RTLTL 24h 37m 30s												
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
VGR COVERAGE													ON CALL												
NOTES																									
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
UTC:	JAN 14												JAN 15												



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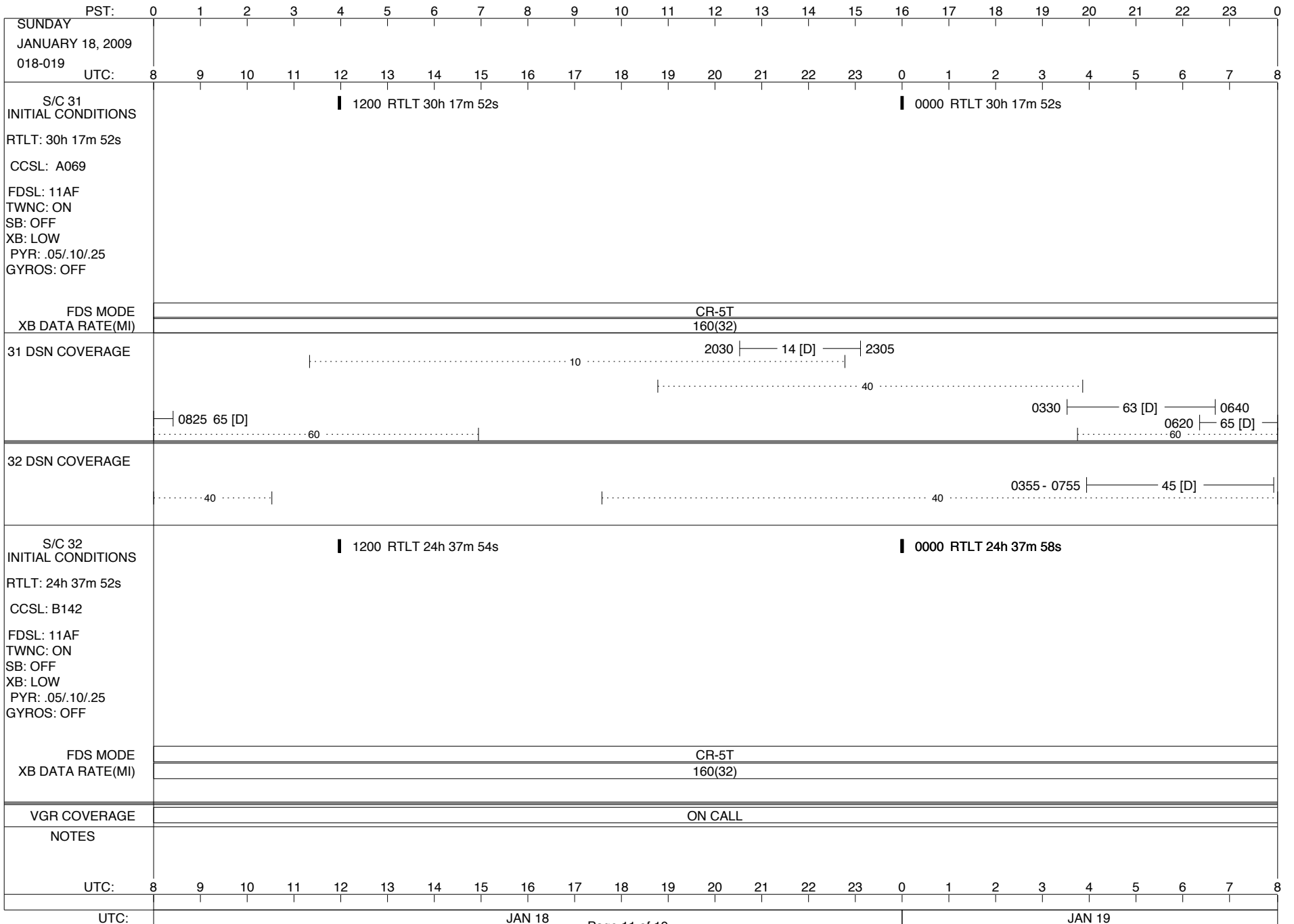
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FRIDAY JANUARY 16, 2009 016-017																													
UTC:		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8			
S/C 31 INITIAL CONDITIONS RTLT: 30h 17m 52s CCSL: A069 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF		1200 RTLT 30h 17m 52s ▼ 1230 DUMMY (18:48) ▼ 1245 EL-40 (19:03) ▼ 1306 CCSL A070 (19:24) ▼ 1340 2 AHELIO SID MRO'S CR-5T (19:58) U/L 1450   -   -												0000 RTLT 30h 17m 52s ----- TLC (SHORT-FORM) ----- 0113     0127 TAPPOS 0415   0416 PWS/RH TAPPOS 0622   0623 ↓ 0415 GS-4B 0416															
FDS MODE		CR-5T												CR-5T															
XB DATA RATE(MI)		160(32)												160(32)															
31 DSN COVERAGE		1110  -----  14 [T]  -----  1520  -----  10  -----  40  -----  0840 65 [D]  -----  0335  -----  63 [D]  -----  0625  -----  60  -----   -----  60																											
32 DSN COVERAGE		-----  40  -----   -----  40  -----  0505  -----  45 [D]  -----																											
S/C 32 INITIAL CONDITIONS RTLT: 24h 37m 38s CCSL: B142 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF		1200 RTLT 24h 37m 42s												0000 RTLT 24h 37m 44s															
FDS MODE		CR-5T												CR-5T															
XB DATA RATE(MI)		160(32)												160(32)															
VGR COVERAGE		ON CALL								VGR								ON CALL											
NOTES		[1] S/C 31=GS-4B @ 0415 XB=2.8K(41) NOT RECOVERABLE																											
UTC:		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8			
UTC:		JAN 16														JAN 17													

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SATURDAY JANUARY 17, 2009 017-018	UTC: 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	
S/C 31 INITIAL CONDITIONS RTLTL: 30h 17m 52s CCSL: A069 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 30h 17m 52s												0000 RTLTL 30h 17m 52s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												EL-40 40(30)		CR-5T 160(32)											
31 DSN COVERAGE	1325  -----  15 [D]  -----  2120 10												40													
32 DSN COVERAGE	45 [D]  -----  1005 40												2035  -----  45 [D]  -----  0135 40													
S/C 32 INITIAL CONDITIONS RTLTL: 24h 37m 44s CCSL: B142 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 24h 37m 48s												0000 RTLTL 24h 37m 52s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																									
VGR COVERAGE	ON CALL												VGR		ON CALL											
NOTES	[1] S/C 31=EL-40 @ 1903 XB=40(30) [2] S/C 31=CR-5T @ 2003 XB=160(32)																									
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	
UTC:	JAN 17																JAN 18									

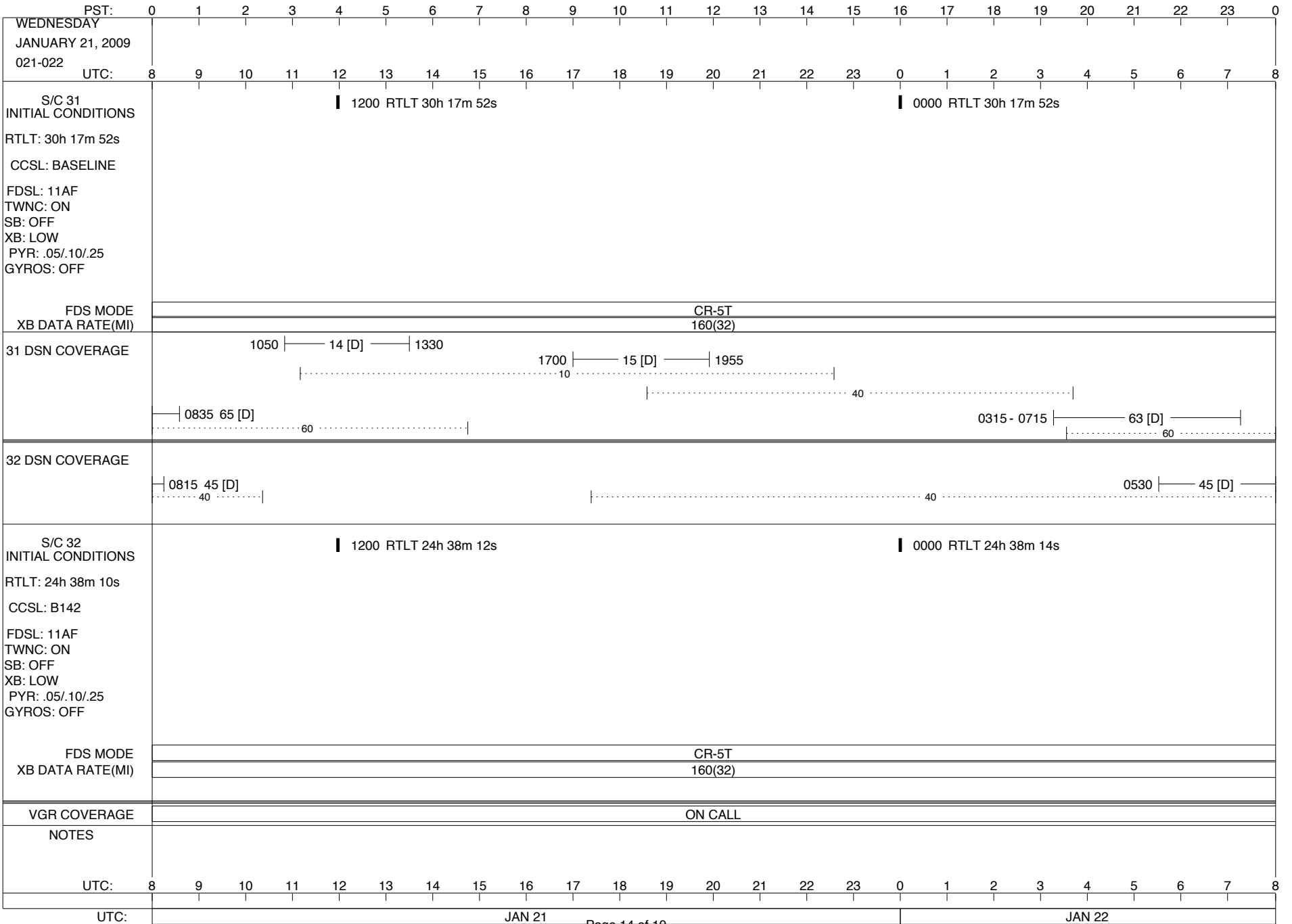
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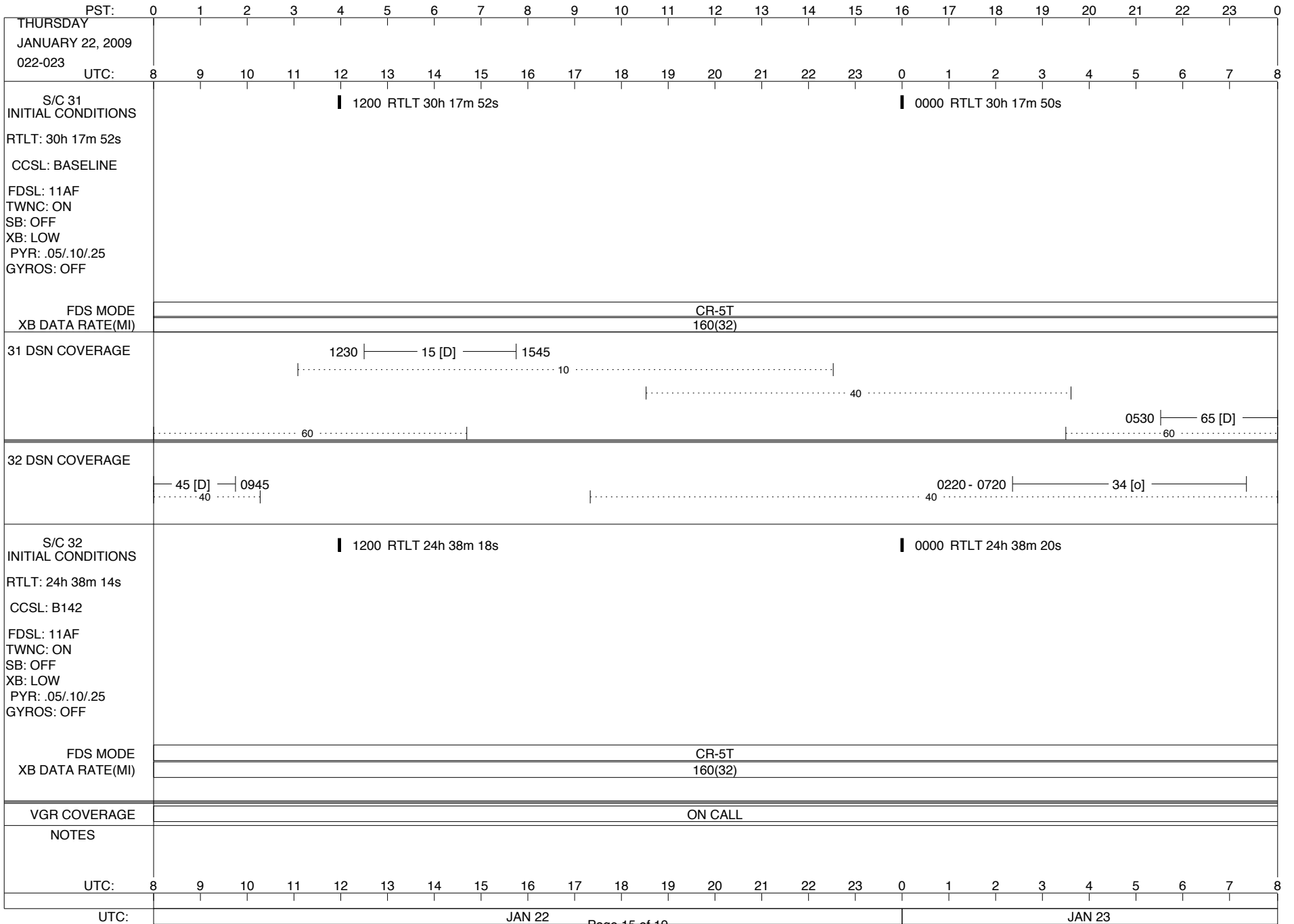
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MONDAY JANUARY 19, 2009 019-020																											
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8		
S/C 31 INITIAL CONDITIONS RTLT: 30h 17m 52s CCSL: A069 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	↓ 0018 END SEQUENCE A069																										
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
31 DSN COVERAGE	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>65 [D] ——— 1015 ..... 60 .....</p> </div> <div style="width: 10%;"></div> <div style="width: 45%;"> <p>1930  ———— 14 [D] —————  2300  ..... 10 .....</p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 65%;"></div> <div style="width: 30%;"> <p>0325 - 0725  ———— 63 [1D] —————   ..... 60 .....</p> </div> </div>																										
32 DSN COVERAGE	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"></div> <div style="width: 10%;"></div> <div style="width: 45%;"> <p>..... 40 .....</p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 65%;"></div> <div style="width: 30%;"> <p>..... 40 .....</p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 80%;"></div> <div style="width: 20%;"> <p>0555  —— 45 [D] —— </p> </div> </div>																										
S/C 32 INITIAL CONDITIONS RTLT: 24h 37m 58s CCSL: B142 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 24h 38m 0s													█ 0000 RTLT 24h 38m 4s													
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
VGR COVERAGE	ON CALL																										
NOTES	<p>[1] A070 BACKUP UPLINK TRACK <b>JPL HOLIDAY!</b></p>																										
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8		
UTC:	JAN 19													JAN 20													



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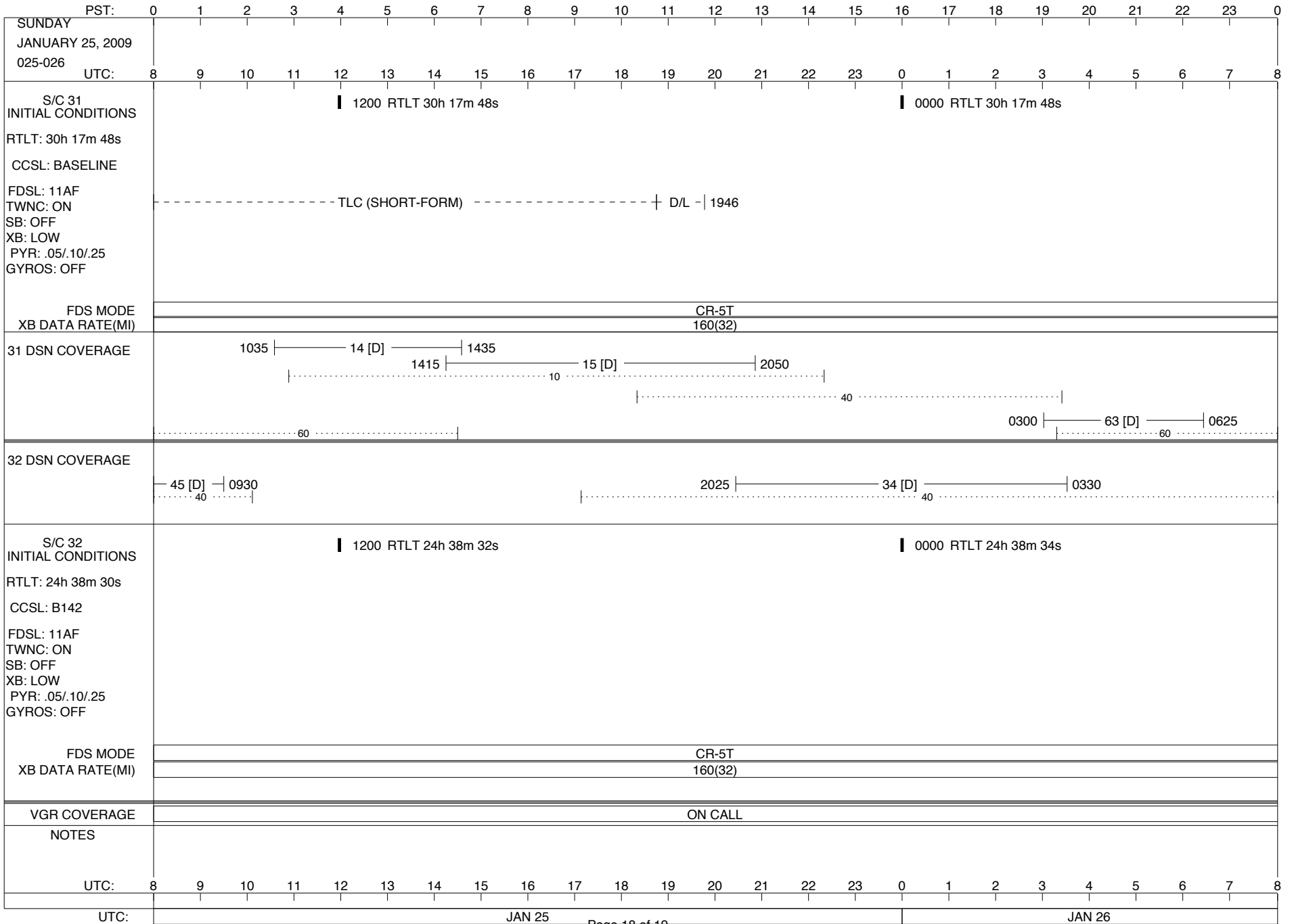








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PST:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0
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S/C 31 INITIAL CONDITIONS RTLT: 30h 17m 48s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <span style="font-size: 2em;">█</span> 1200 RTLT 30h 17m 46s         </div> <div style="text-align: center; margin-top: 20px;"> <span style="font-size: 2em;">▼</span> 1530 DUMMY (21:48)         </div> <div style="text-align: right; margin-top: 20px;"> <span style="font-size: 2em;">↓</span> 0018 BEGIN SEQUENCE A070         </div>																								
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	<div style="display: flex; justify-content: space-between; align-items: center;"> <span>1055</span> <span style="border-top: 1px solid black; width: 100px; border-bottom: 1px solid black;"></span> <span>14</span> <span style="border-top: 1px solid black; width: 100px; border-bottom: 1px solid black;"></span> <span>1545</span> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 5px;"> <span>.....</span> <span style="border-top: 1px dashed black; width: 100px; border-bottom: 1px dashed black;"></span> <span>10</span> <span style="border-top: 1px dashed black; width: 100px; border-bottom: 1px dashed black;"></span> <span>.....</span> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 5px;"> <span>.....</span> <span style="border-top: 1px dotted black; width: 100px; border-bottom: 1px dotted black;"></span> <span>60</span> <span style="border-top: 1px dotted black; width: 100px; border-bottom: 1px dotted black;"></span> <span>.....</span> </div>																								
32 DSN COVERAGE	<div style="display: flex; justify-content: space-between; align-items: center;"> <span>.....</span> <span style="border-top: 1px dotted black; width: 100px; border-bottom: 1px dotted black;"></span> <span>40</span> <span style="border-top: 1px dotted black; width: 100px; border-bottom: 1px dotted black;"></span> <span>.....</span> </div>																								
S/C 32 INITIAL CONDITIONS RTLT: 24h 38m 34s CCSL: B142 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <span style="font-size: 2em;">█</span> 1200 RTLT 24h 38m 36s         </div>																								
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE	ON CALL								VGR								ON CALL								
NOTES																									
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
UTC:	JAN 26												JAN 27												