

VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: November 30, 2021

For the Period: 12/02/21 to 12/20/21 (21/336 – 21/354)



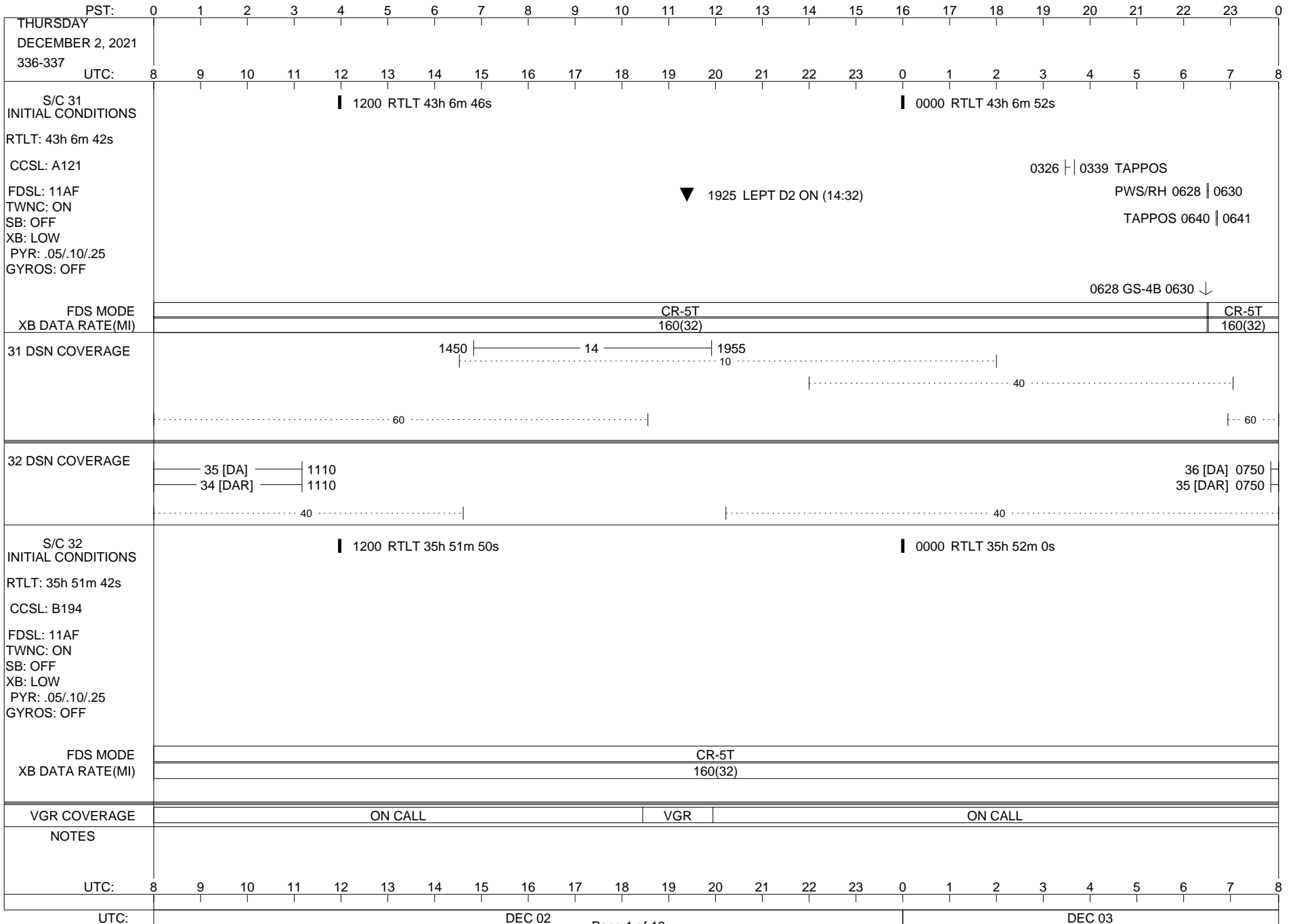
Posted at <https://voyager.jpl.nasa.gov/mission/status/>

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 = BLF
- D = Downlink only pass
- H = High Power Transmitter
- R = Array Reference Antenna
- T = TLC Uplink
- U = Uplink only pass
- [o] = Ramp-through

02/27/19

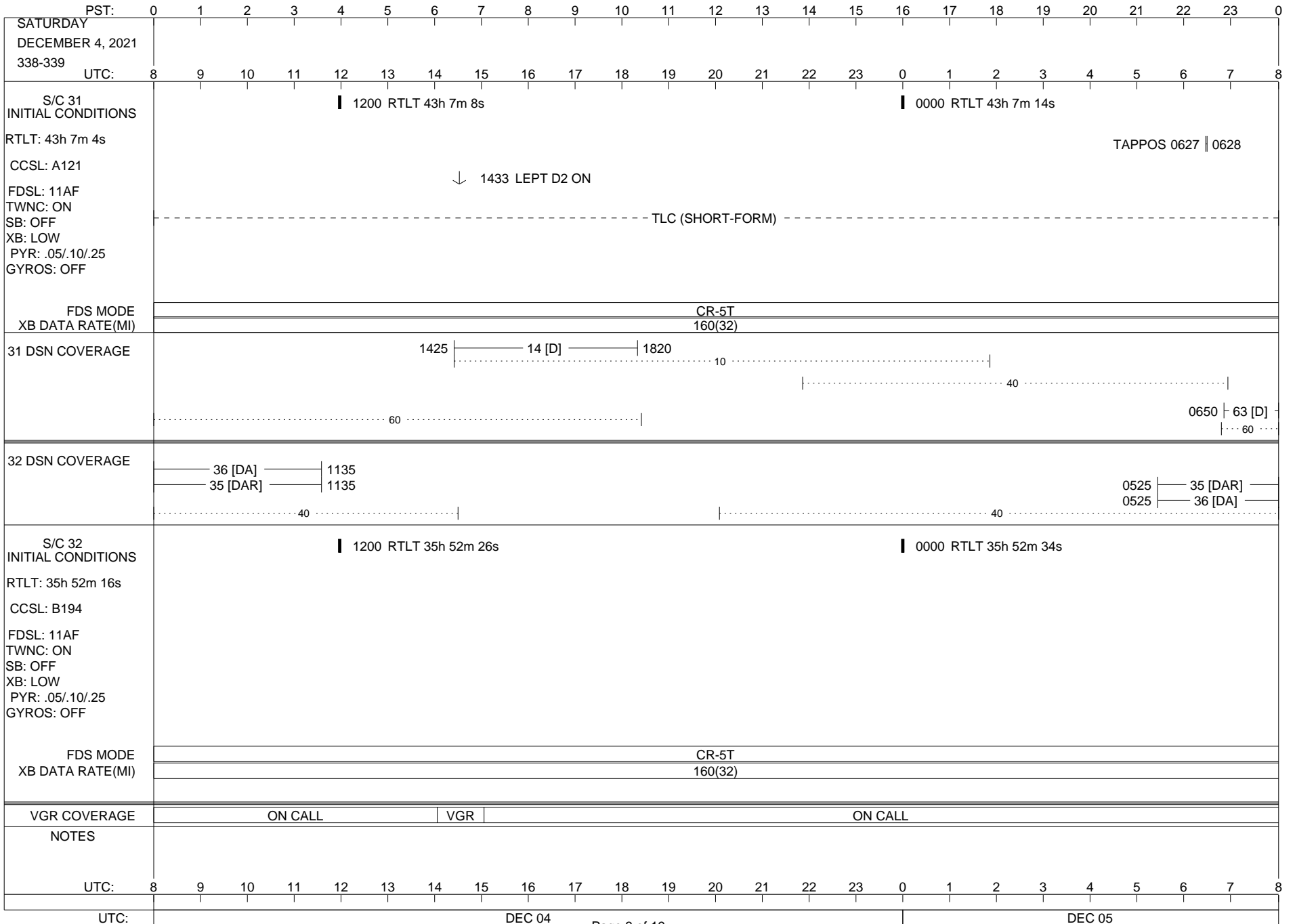
ISSUE DATE: 12/06/21 15:18

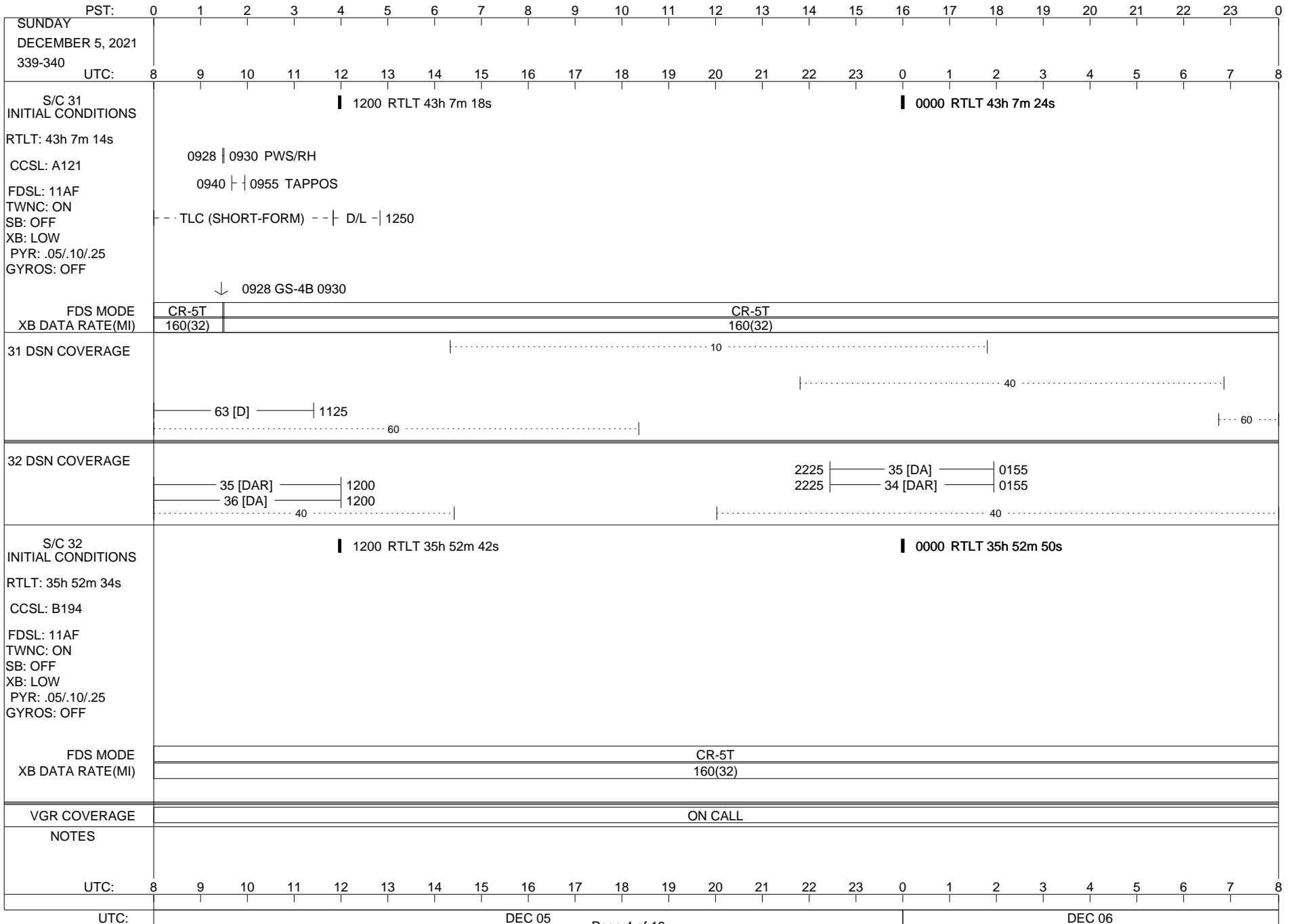


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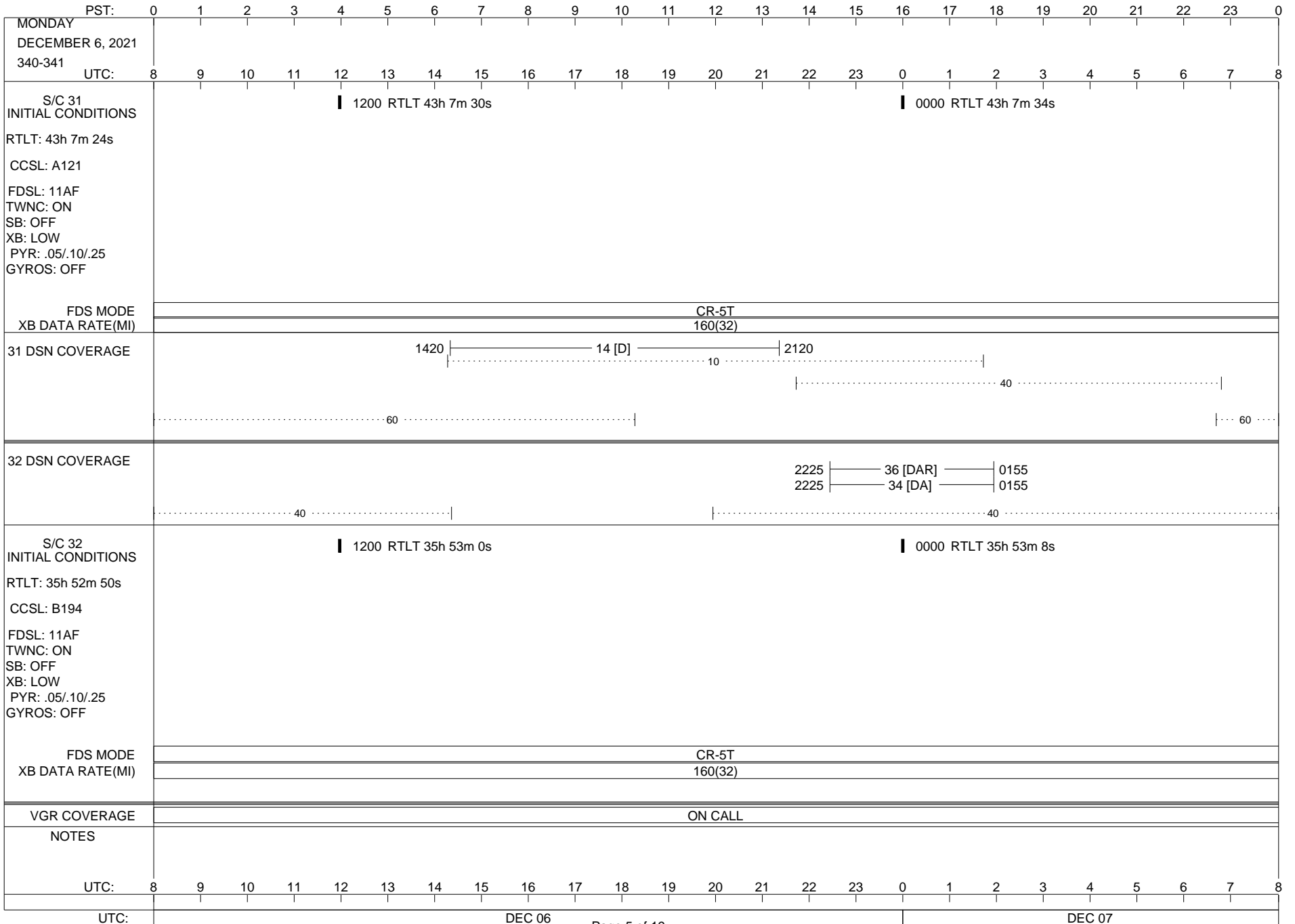
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UTC: 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 8																																					
S/C 31 INITIAL CONDITIONS RTLT: 43h 6m 52s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLT 43h 6m 58s												0000 RTLT 43h 7m 4s																							
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)																																			
31 DSN COVERAGE		1430 |-----| 14 [T1] |-----| 1835 |-----| 10 .....| |-----| 40 .....| |-----| 60 .....|																																			
32 DSN COVERAGE		36 [DA] |-----| 1205 35 [DAR] |-----| 1205 |-----| 40 .....| |-----| 40 .....| 0435 |-----| 36 [DA] |-----| 0435 |-----| 35 [DAR] |-----|																																			
S/C 32 INITIAL CONDITIONS RTLT: 35h 52m 0s CCSL: B194 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLT 35h 52m 8s												0000 RTLT 35h 52m 16s																							
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)																																			
VGR COVERAGE		ON CALL												VGR												ON CALL											
NOTES		[1] DSS-14 U/L PIT																																			
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:		DEC 03												Page 2 of 19												DEC 04											

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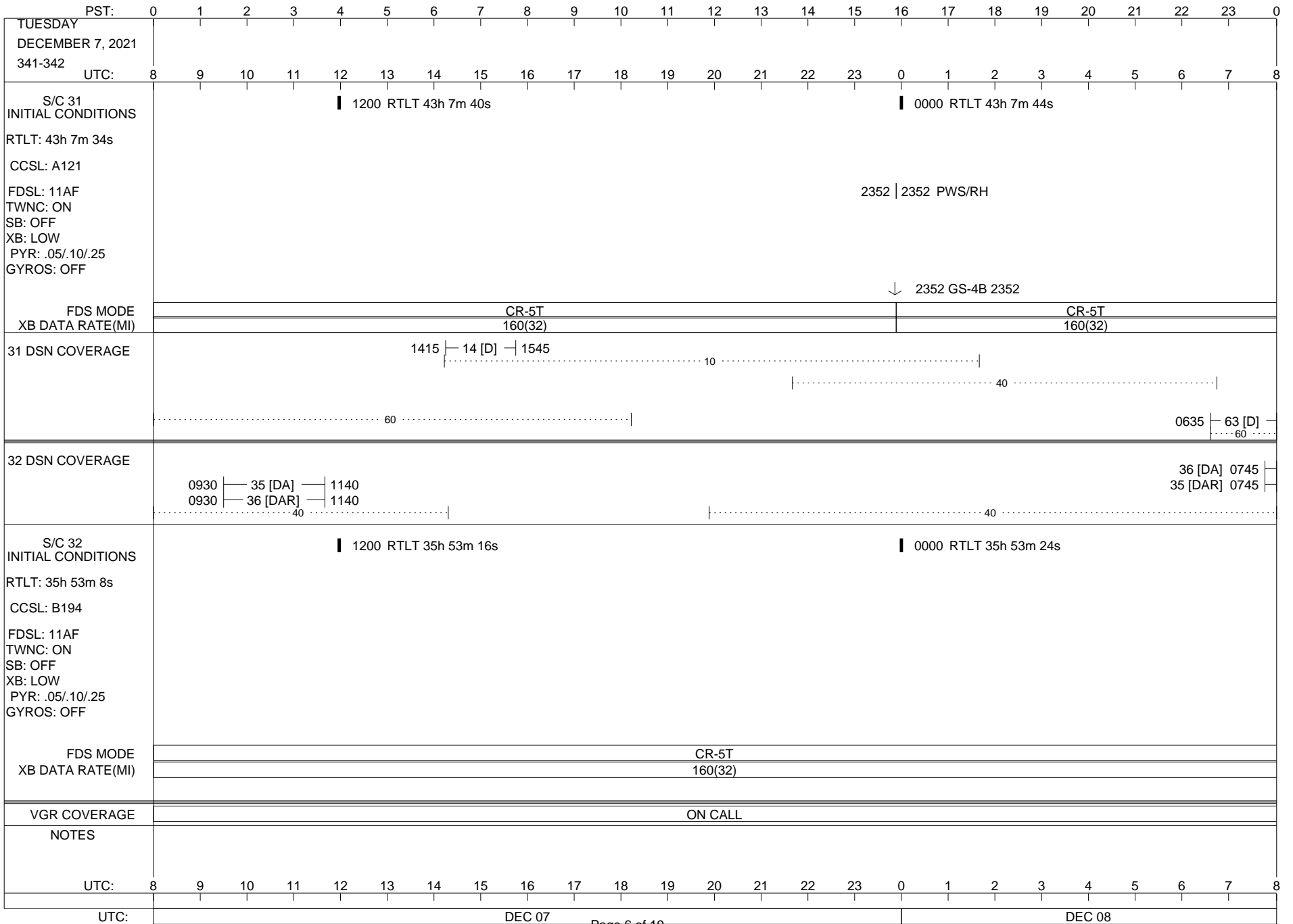




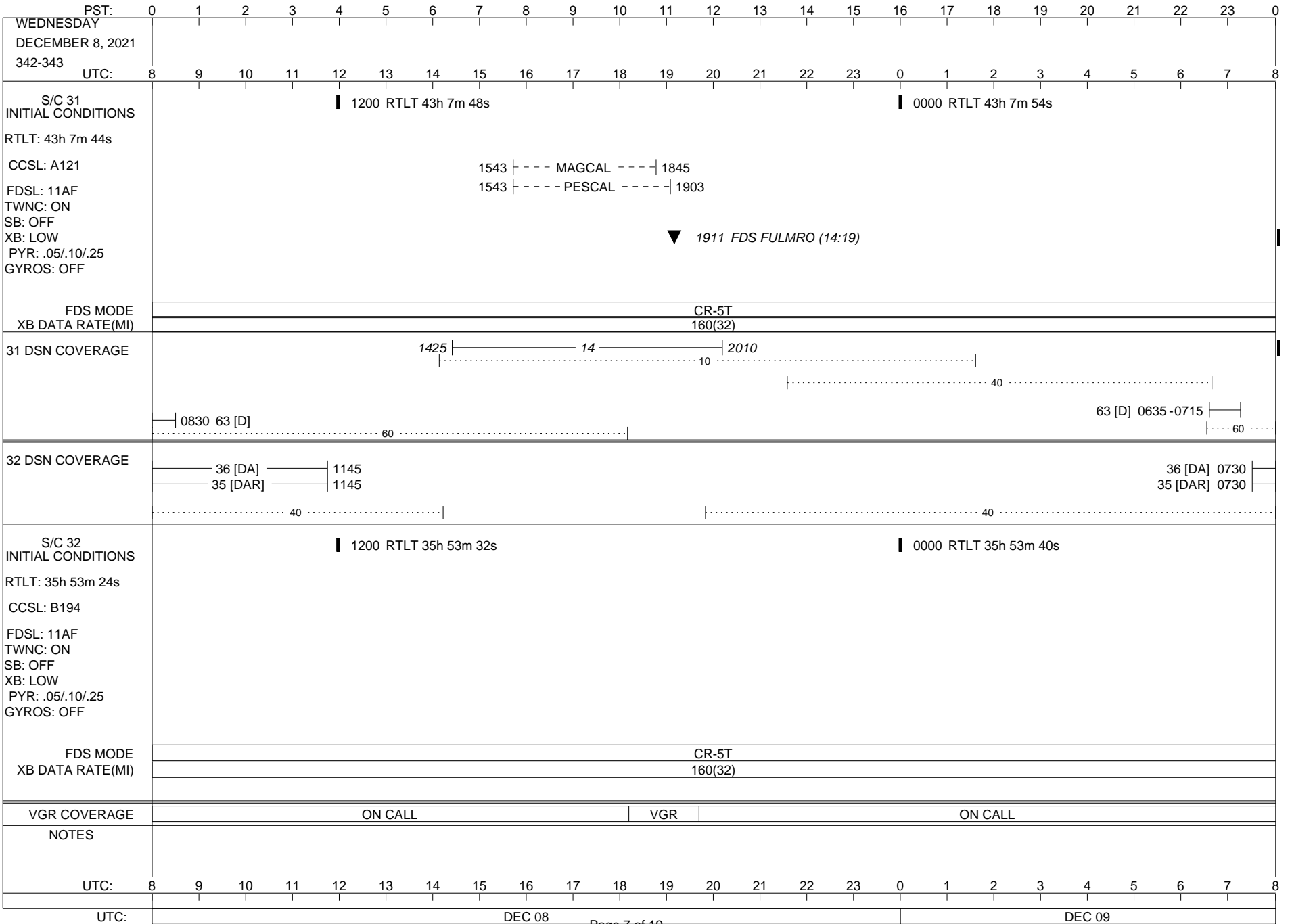
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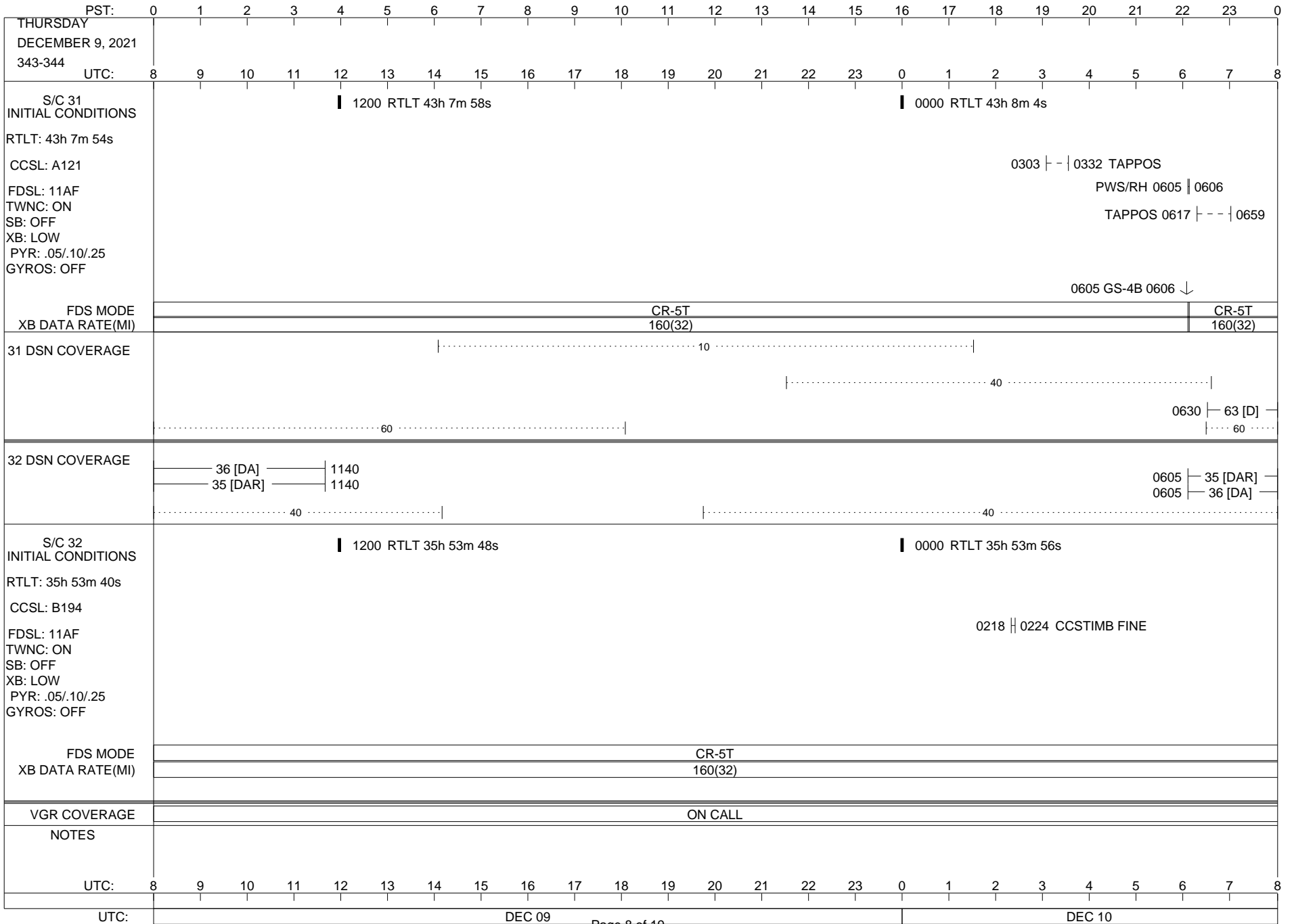
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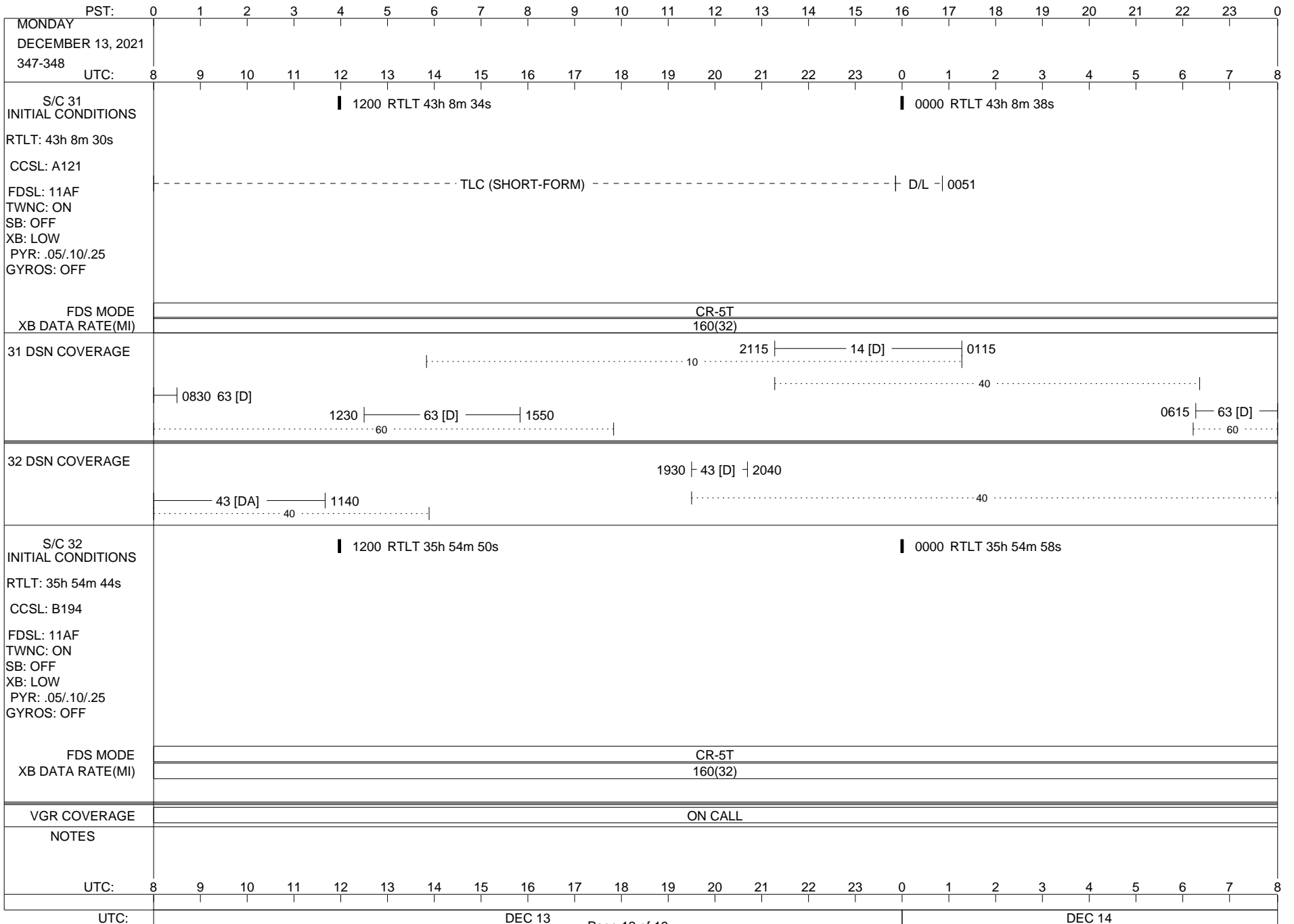
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FRIDAY DECEMBER 10, 2021 344-345																																				
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S/C 31 INITIAL CONDITIONS RTLT: 43h 8m 4s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		█ 1200 RTLT 43h 8m 8s														█ 0000 RTLT 43h 8m 12s																				
FDS MODE		CR-5T							EL-40							CR-5T																				
XB DATA RATE(MI)		160(32)							40(30)							ON CALL																				
31 DSN COVERAGE		<p>1405 |-----| 14 [D] |-----| 1705</p> <p>..... 10 ..... |-----| 40 ..... |</p> <p>----- 63 [D] ----- | 1030</p> <p>..... 60 ..... |-----| 60</p>																																		
32 DSN COVERAGE		<p>----- 35 [DAR] ----- | 1105</p> <p>----- 36 [DA] ----- | 1105</p> <p>..... 40 ..... |-----| 40 ..... |</p> <p>2345 |-----| 43 [B] |-----| 0345</p>																																		
S/C 32 INITIAL CONDITIONS RTLT: 35h 53m 56s CCSL: B194 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		█ 1200 RTLT 35h 54m 4s														█ 0000 RTLT 35h 54m 12s																				
FDS MODE		CR-5T																																		
XB DATA RATE(MI)		160(32)																																		
VGR COVERAGE		ON CALL							VGR							ON CALL							VGR							ON CALL						
NOTES		<p>[1] S/C 31=EL-40 @ 1420 XB=40(30)</p> <p>[2] S/C 31=CR-5T @ 1650 XB=160(32)</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:		DEC 10														DEC 11																				

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SATURDAY DECEMBER 11, 2021 345-346																									
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: 43h 8m 12s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 43h 8m 16s												█ 0000 RTLT 43h 8m 20s												
FDS MODE	CR-5T												ON CALL												
XB DATA RATE(MI)																									
31 DSN COVERAGE	1400 |----- 14 [D] -----| 1730												0215 |----- 43 [T] -----| 0615												
	..... 60 .....												..... 40											
	..... 60												0620 | 63 [D] | ..... 60											
32 DSN COVERAGE	1045 |----- 43 [D] -----| 1330												0700 | 43 [D] |												
	..... 40 .....												..... 40											
S/C 32 INITIAL CONDITIONS RTLT: 35h 54m 12s CCSL: B194 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 35h 54m 20s												█ 0000 RTLT 35h 54m 28s												
FDS MODE	CR-5T												160(32)												
XB DATA RATE(MI)																									
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:	DEC 11												Page 10 of 19						DEC 12						

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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			
SUNDAY DECEMBER 12, 2021 346-347																												
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: 43h 8m 20s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 43h 8m 26s														0000 RTLTL 43h 8m 30s													
----- TLC (SHORT-FORM) -----																												
	0905 | 0906 PWS/RH														0917 | - - - - | 1013 TAPPOS													
	↓ 0905 GS-4B 0906																											
FDS MODE	CR-5T														CR-5T													
XB DATA RATE(MI)															160(32)													
31 DSN COVERAGE																												
32 DSN COVERAGE																												
S/C 32 INITIAL CONDITIONS RTLTL: 35h 54m 28s CCSL: B194 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 35h 54m 36s														0000 RTLTL 35h 54m 44s													
	PUR=.05/.05/.05 0442↓ ASCAL 0446 | - - | 0518 ROLL=.25 0518 ↓ AAC SIN FCP SWAP TABLE NOP 0520↓ 1 SID MRO 0521↓ EL-40 0420↓ ↓ 0523 CR-5T																											
FDS MODE	CR-5T														EL-40							CR-5T						
XB DATA RATE(MI)	160(32)														40(30)							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:	DEC 12														DEC 13													



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
TUESDAY DECEMBER 14, 2021 348-349	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: 43h 8m 38s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 43h 8m 42s												0000 RTLTL 43h 8m 46s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	1345 |----- 14 [D] -----| 1745												10 |----- 40 -----|												
	63 [D] |----- 1000 -----|												60 |----- 60 -----|												
32 DSN COVERAGE	1115 |----- 43 [D] -----| 1350												40 |----- 40 -----|												
S/C 32 INITIAL CONDITIONS RTLTL: 35h 54m 58s CCSL: B194 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 35h 55m 6s												0000 RTLTL 35h 55m 14s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL												ON CALL												
NOTES													0135 PLSCAL - 0318 0135 --- MAGCAL --- 0438 0135 ---- PESCAL ---- 0455												
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:	DEC 14												DEC 15												

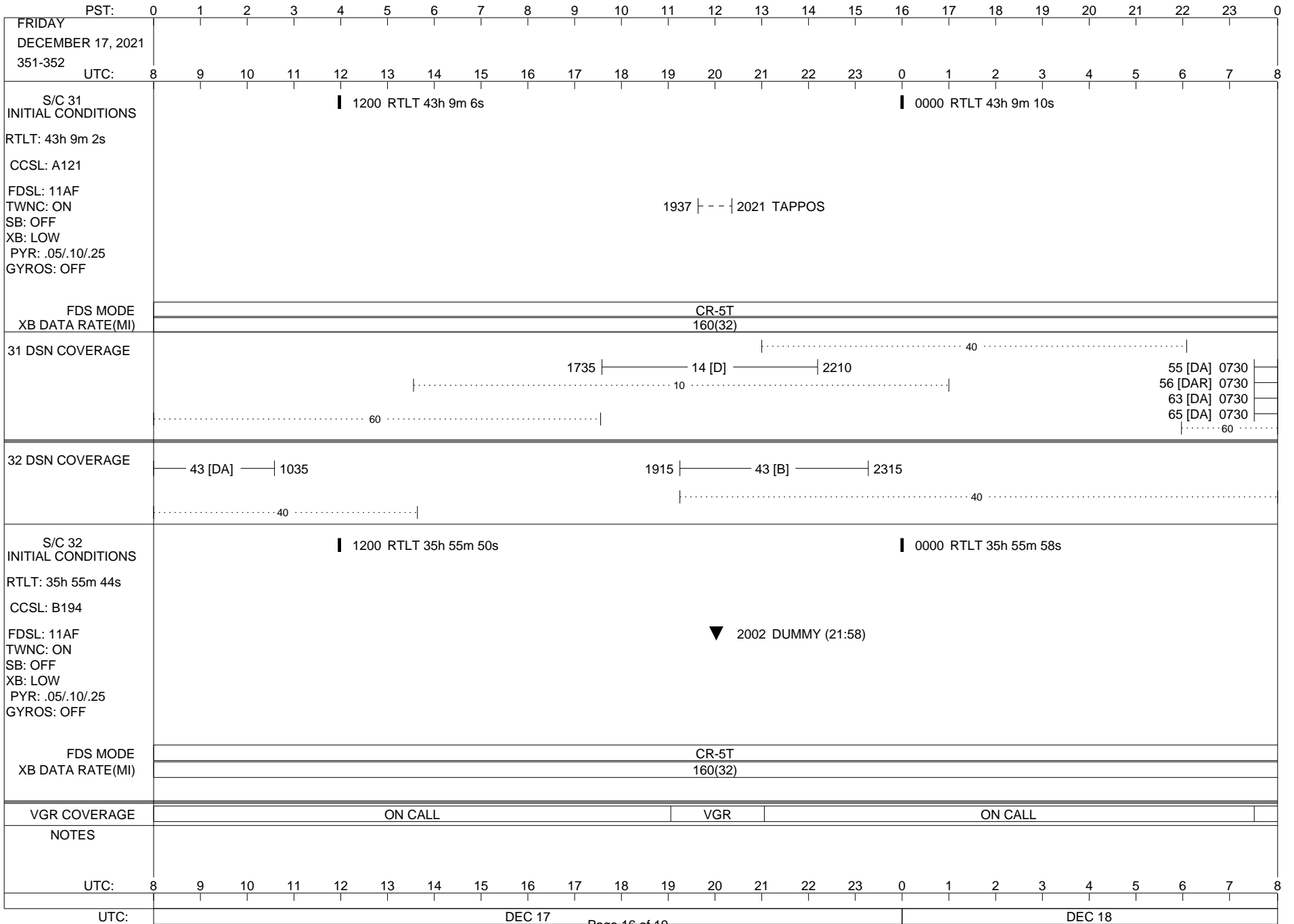
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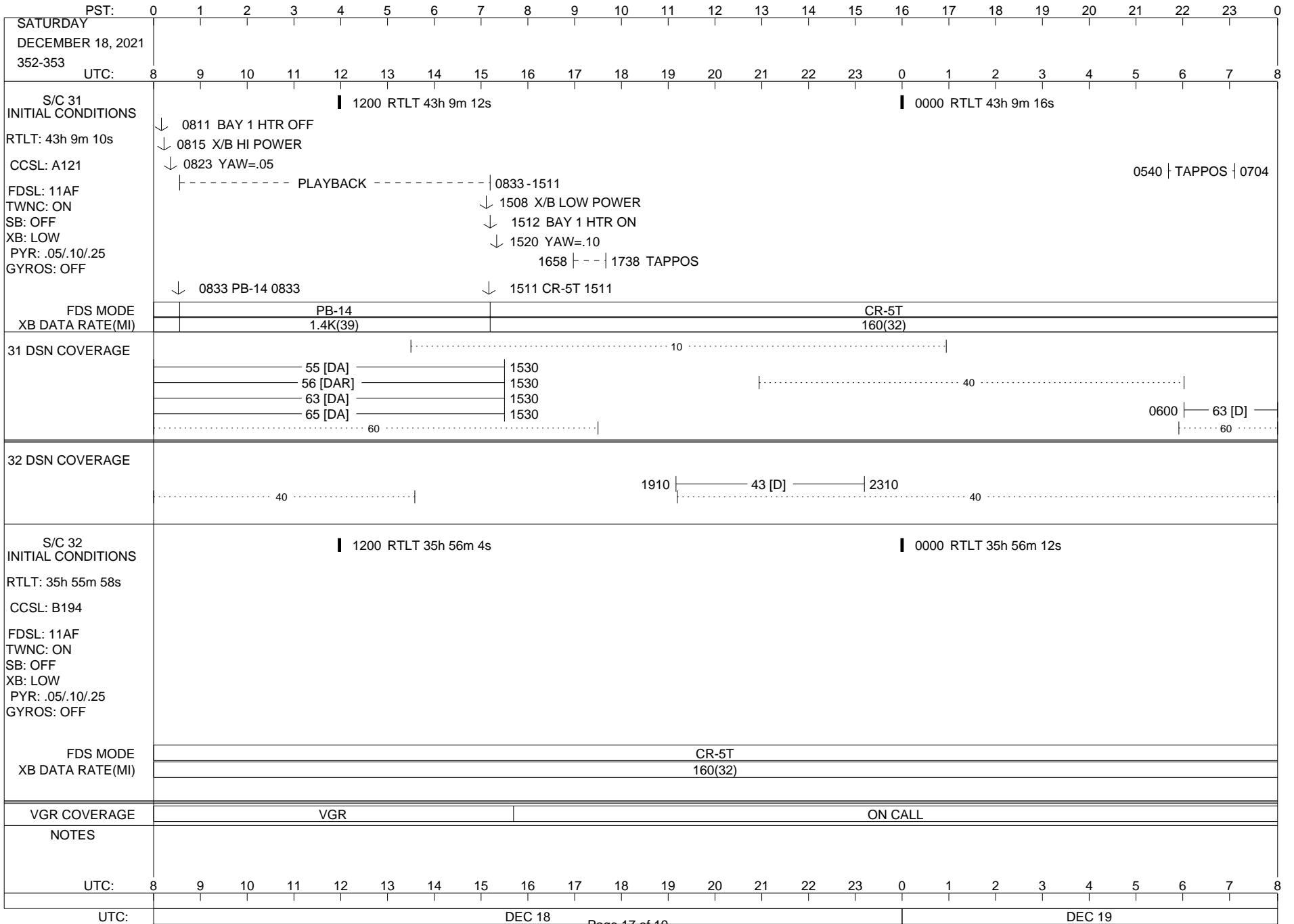
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WEDNESDAY DECEMBER 15, 2021 349-350																												
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8			
S/C 31 INITIAL CONDITIONS RTLTL: 43h 8m 46s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 43h 8m 50s														█ 0000 RTLTL 43h 8m 54s													
FDS MODE	CR-5T							EL-40							CR-5T													
XB DATA RATE(MI)	160(32)							40(30)							160(32)													
31 DSN COVERAGE	1545 |-----| 14 [D] |-----| 2325														|-----| 40 |-----| 0605-0715 | 63 [D] |-----| 60													
32 DSN COVERAGE	|-----| 43 [D] |-----| 0830-1345														0020 |-----| 43 [D] |-----| 0530													
S/C 32 INITIAL CONDITIONS RTLTL: 35h 55m 14s CCSL: B194 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 35h 55m 22s														█ 0000 RTLTL 35h 55m 28s													
FDS MODE	CR-5T																											
XB DATA RATE(MI)	160(32)																											
VGR COVERAGE	ON CALL														VGR							ON CALL						
NOTES	[1] S/C 31=EL-40 @ 1559 XB=40(30) [2] S/C 31=CR-5T @ 2243 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:	DEC 15														Page 14 of 19							DEC 16						

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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
THURSDAY DECEMBER 16, 2021 350-351																									
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: 43h 8m 54s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 43h 8m 58s												0000 RTLTL 43h 9m 2s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	.....|.....10.....|.....												.....2250|-----43 [D]-----|0250.....|.....60.....											
32 DSN COVERAGE	0850|-----43 [D]-----|1330.....|.....40.....												.....|.....40.....|.....0335|-----43 [DA]-----|0655 0335|-----36 [DAR]-----|												
S/C 32 INITIAL CONDITIONS RTLTL: 35h 55m 28s CCSL: B194 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 35h 55m 36s												0000 RTLTL 35h 55m 44s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL												VGR						ON CALL						
NOTES	BAY 1 HTR OFF 0351↓ GYROS BC ON 0351 ↓ GYRO INIT 0351↓ GYRO FAULT TEST 0401↓ AAI 0421↓ MAGROL | - - | 0500 RAI 0503↓ GYROS OFF 0509 ↓ BAY 1 HTR ON 0517↓ ↓ 0353 EL-40 0356																								
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:	DEC 16												DEC 17												

ISSUE DATE: 12/06/21 15:18





ISSUE DATE: 12/06/21 15:18

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
SUNDAY DECEMBER 19, 2021 353-354	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: 43h 9m 16s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 43h 9m 20s												0000 RTLT 43h 9m 24s												
0842-0843 PWS/RH 0853 | TAPPOS | 1031 0841 GS-4B 0843													2205 DUMMY (17:14)												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	63 [D] | 1000												2135 | 14 [T] | 0030 40												
32 DSN COVERAGE	0920 | 43 [D] | 1330												1905 | 43 [o] | 0300 43 [D] 0710 |												
S/C 32 INITIAL CONDITIONS RTLT: 35h 56m 12s CCSL: B194 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 56m 18s												0000 RTLT 35h 56m 26s												
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:	DEC 19												Page 18 of 19						DEC 20						

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MONDAY DECEMBER 20, 2021 354-355	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: 43h 9m 24s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200																					
		----- TLC (SHORT-FORM) -----																									
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)													
31 DSN COVERAGE		2130 | 14 [D] | 2230																									
		..... 60																								
32 DSN COVERAGE		43 [D] | 0940 1930 | 43 [D] | 2040																									
S/C 32 INITIAL CONDITIONS RTLTL: 35h 56m 26s CCSL: B194 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200																					
FDS MODE XB DATA RATE(MI)														CR-5T 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:	DEC 20												DEC 21													