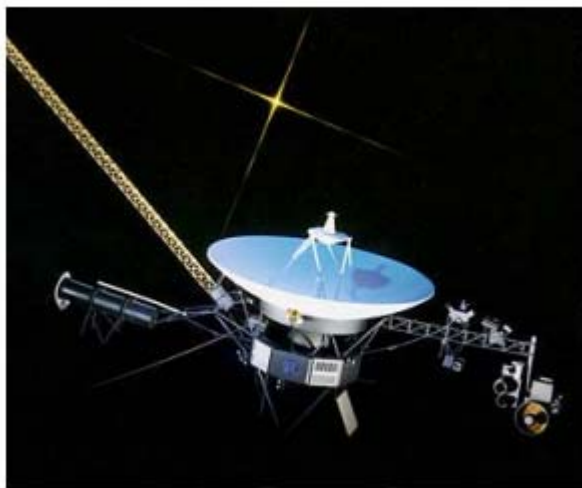


VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: December 15, 2021

For the Period: 12/16/21 to 01/10/22 (21/350 – 22/010)



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

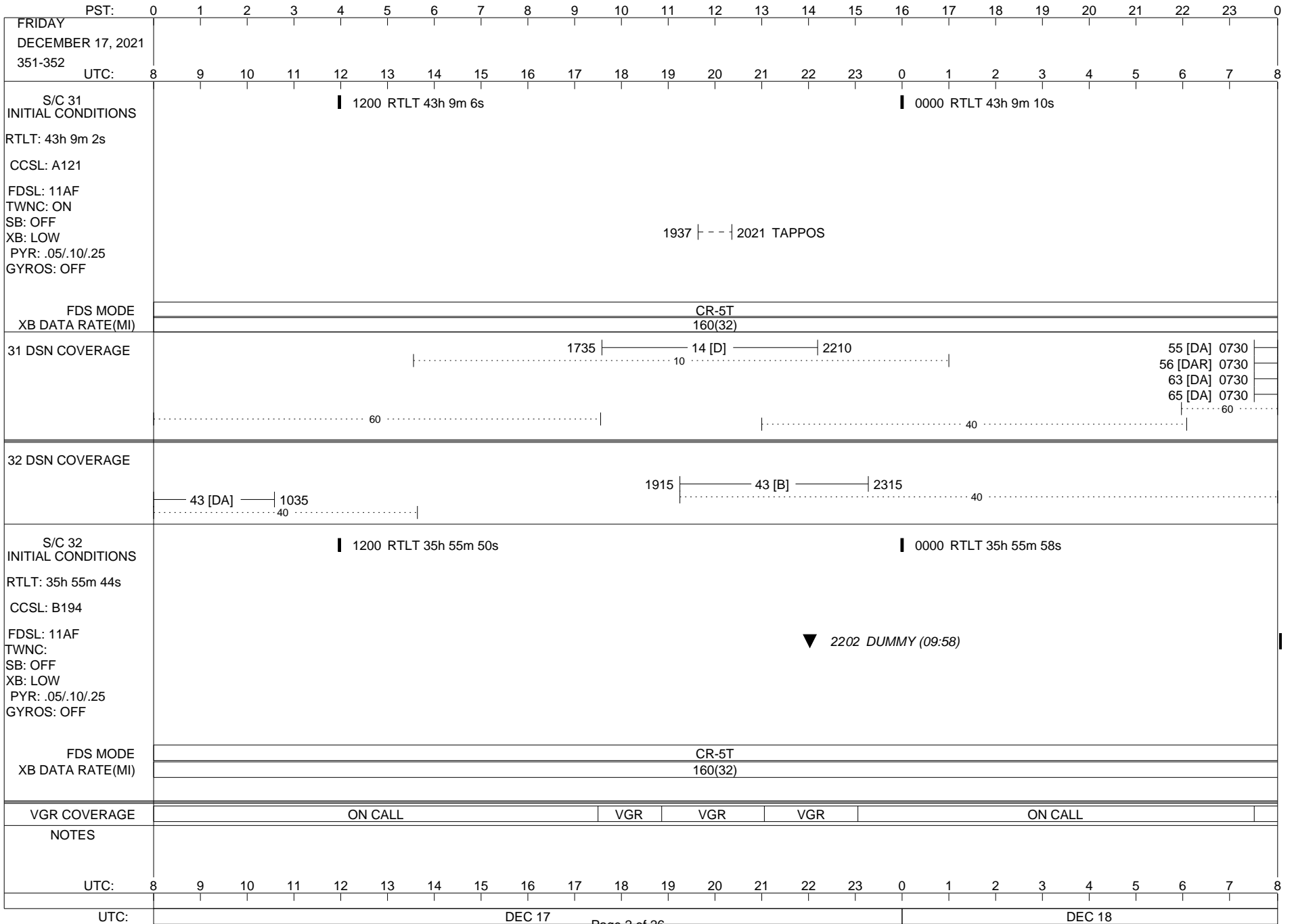
LEGEND:

- ▽ = 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: 12/20/21 12:46

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 XB DATA RATE(MI)		CR-5T 160(32)												CR-5T 160(32)															
31 DSN COVERAGE		<p>.....10.....</p> <p>.....2250 -----43 [D]----- 0250.....</p> <p>.....60.....60.....</p>																											
32 DSN COVERAGE		<p>0905 -----43 [o]----- 1330.....</p> <p>.....40.....40.....</p> <p>.....0335 -----36 [DAR]----- 0655.....</p> <p>.....0335 -----43 [DA]-----</p>																											
S/C 32 INITIAL CONDITIONS RTLTL: 35h 55m 28s CCSL: B194 FDSL: 11AF TWNC: SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLTL 35h 55m 36s												0000 RTLTL 35h 55m 44s															
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)												CR-5T 160(32)															
VGR COVERAGE		ON CALL												VGR						ON CALL									
NOTES		<p>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↓</p> <p>0353 EL-40 0356 ↓</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 16												DEC 17															



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
 SATURDAY DECEMBER 18, 2021
 352-353 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 10s
 CCSL: A121
 FDSL: 11AF
 TWNC: ON
 SB: OFF
 XB: LOW
 PYR: .05/.10/.25
 GYROS: OFF

1200 RTLT 43h 9m 12s
 0000 RTLT 43h 9m 16s

↓ 0811 BAY 1 HTR OFF
 ↓ 0815 X/B HI POWER
 ↓ 0823 YAW=.05
 |-----PLAYBACK-----|0833-1511
 ↓ 1508 X/B LOW POWER
 ↓ 1512 BAY 1 HTR ON
 ↓ 1520 YAW=.10
 1658 |---| 1738 TAPPOS
 ↓ 0833 PB-14 0833 ↓ 1511 CR-5T 1511

0540 | TAPPOS | 0704

FDS MODE	PB-14	CR-5T
XB DATA RATE(MI)	1.4K(39)	160(32)

31 DSN COVERAGE

55 [DA]	1530
56 [DAR]	1530
63 [DA]	1530
65 [DA]	1530

60 40 0600 | 63 [D] | 60

..... 10 40

32 DSN COVERAGE

..... 40 1910 | 43 [D] | 2310 40

S/C 32
 INITIAL CONDITIONS
 RTLT: 35h 55m 58s
 CCSL: B194
 FDSL: 11AF
 TWNC:
 SB: OFF
 XB: LOW
 PYR: .05/.10/.25
 GYROS: OFF

1200 RTLT 35h 56m 4s
 0000 RTLT 35h 56m 12s

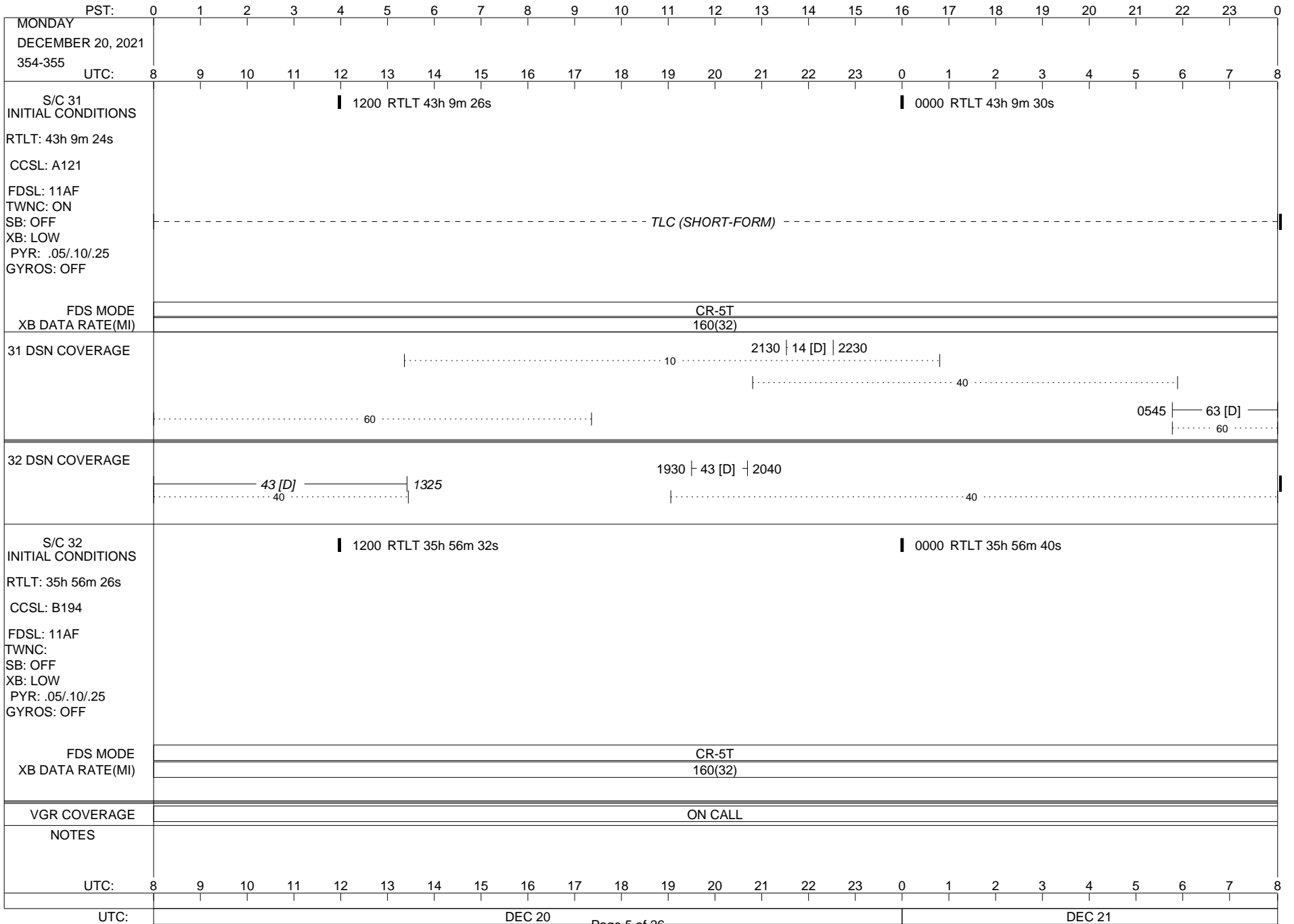
FDS MODE	CR-5T
XB DATA RATE(MI)	160(32)

VGR COVERAGE 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 18 DEC 19

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	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												
0841 -0843 PWS/RH 0853 TAPPOS 1031 ↓ 0841 GS-4B 0843													▼ 2250 FDS MEM RST & MRO (17:59)												
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 40												
S/C 32 INITIAL CONDITIONS RTLT: 35h 56m 12s CCSL: B194 FDSL: 11AF TWNC: 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 4 of 26						DEC 20						

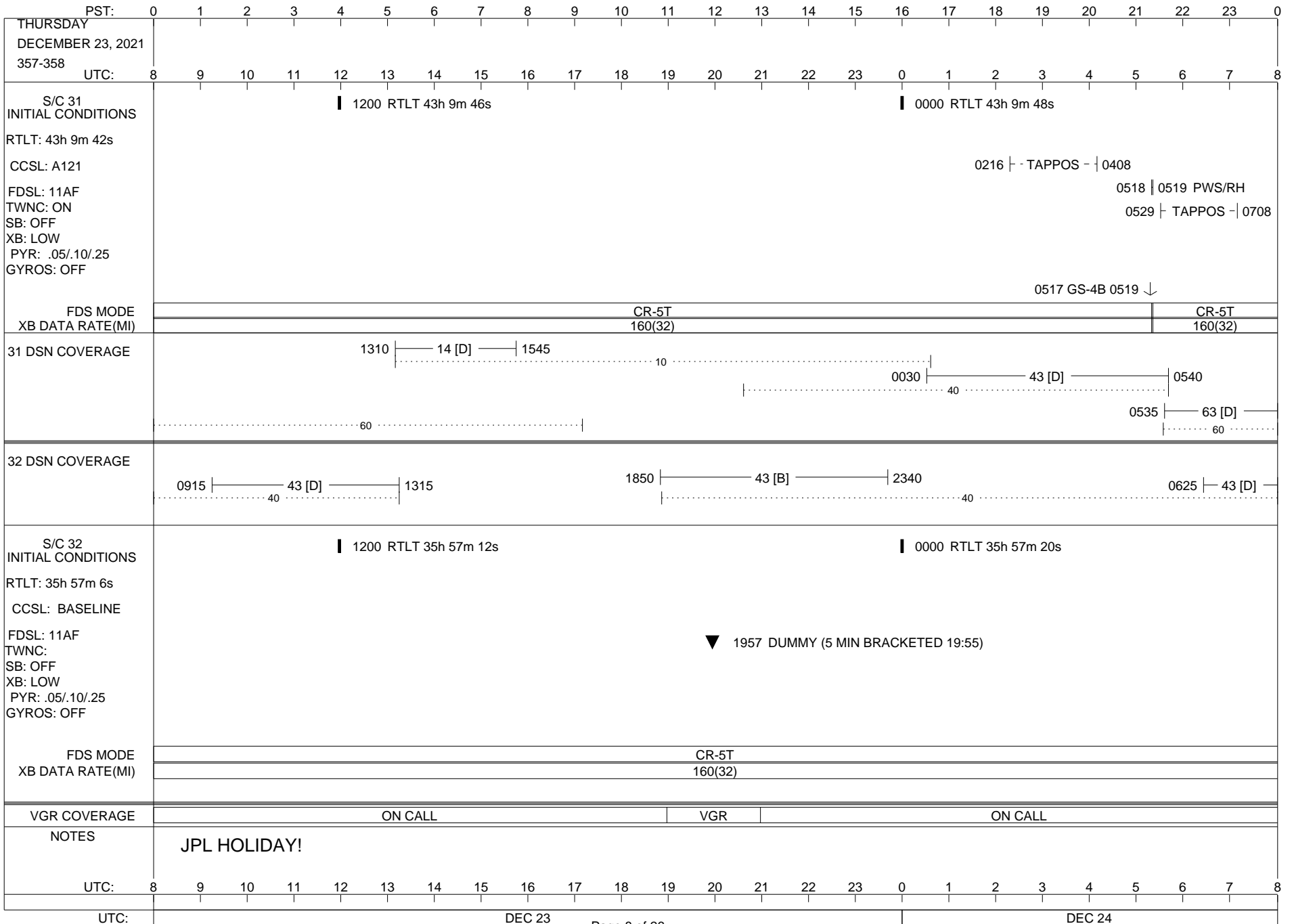


ISSUE DATE: 12/20/21 12:46

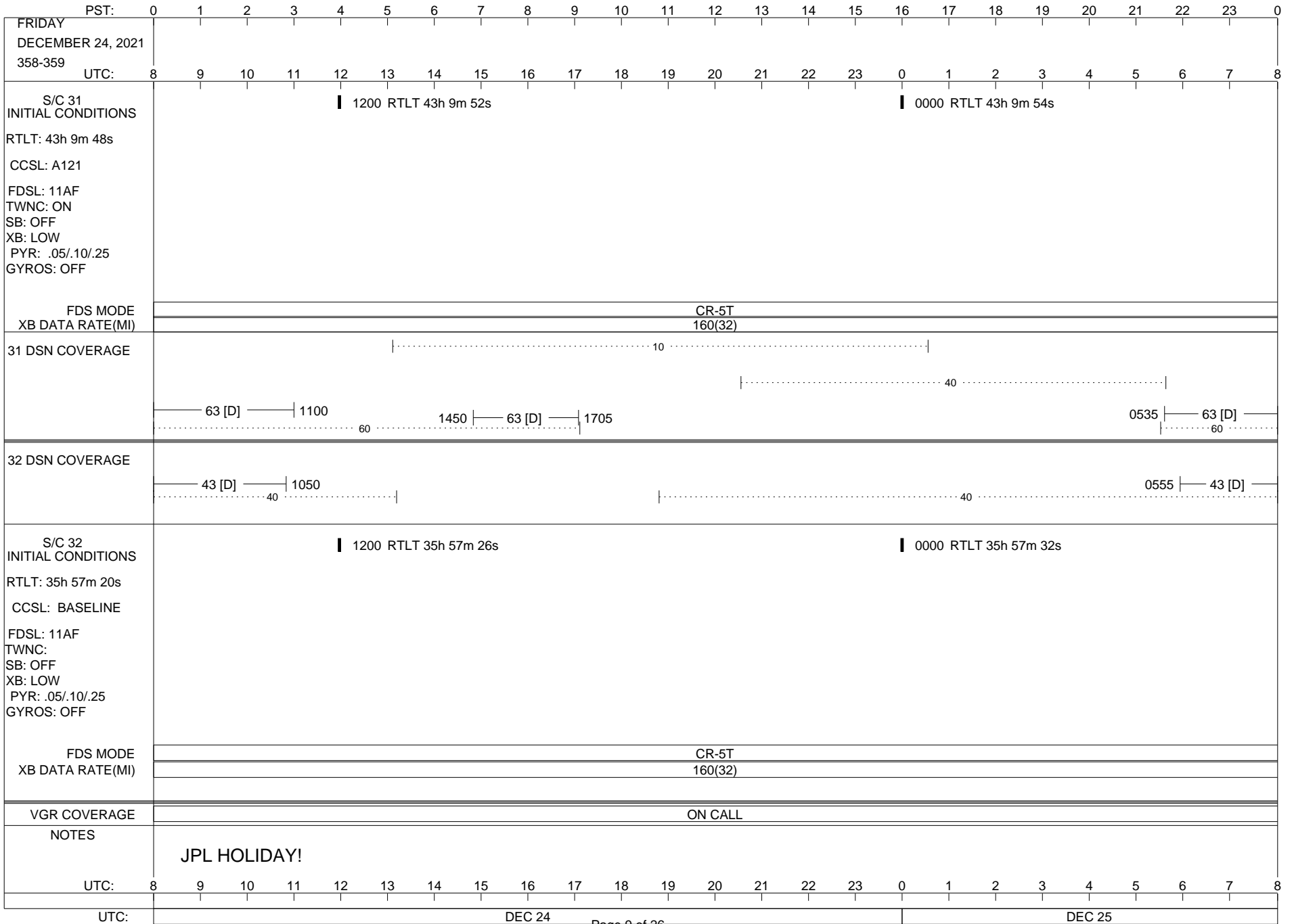
TUESDAY DECEMBER 21, 2021 355-356		PST:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0														
		UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8														
S/C 31 INITIAL CONDITIONS RTLT: 43h 9m 30s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF		1200 RTLT 43h 9m 34s 0000 RTLT 43h 9m 36s * ↓ 1816 FDS MEM RESET * 1817 1819 3 SID MRO'S ----- TLC (SHORT-FORM) ----- D/L - 1952 2304 2305 PWS/RH * * EL-40 1800 ↓ ↓ 1821 CR-5T ↓ 2304 GS-4B 2305																																							
FDS MODE XB DATA RATE(MI)		<table border="1"> <tr> <td>CR-5T</td> <td>CR-5T</td> <td>CR-5T</td> </tr> <tr> <td>160(32)</td> <td>160(32)</td> <td>160(32)</td> </tr> </table>																												CR-5T	CR-5T	CR-5T	160(32)	160(32)	160(32)						
CR-5T	CR-5T	CR-5T																																							
160(32)	160(32)	160(32)																																							
31 DSN COVERAGE		<table border="1"> <tr> <td>1320</td> <td>14 [D]</td> <td>1825</td> <td>10</td> <td>40</td> <td>63 [D]</td> <td>1025</td> <td>60</td> <td>0540</td> <td>63 [D]</td> <td>0640</td> <td>60</td> </tr> </table>																												1320	14 [D]	1825	10	40	63 [D]	1025	60	0540	63 [D]	0640	60
1320	14 [D]	1825	10	40	63 [D]	1025	60	0540	63 [D]	0640	60																														
32 DSN COVERAGE		<table border="1"> <tr> <td>0920</td> <td>43 [D]</td> <td>1325</td> <td>40</td> <td>2335</td> <td>43 [o]</td> <td>40</td> </tr> </table>																												0920	43 [D]	1325	40	2335	43 [o]	40					
0920	43 [D]	1325	40	2335	43 [o]	40																																			
S/C 32 INITIAL CONDITIONS RTLT: 35h 56m 40s CCSL: B194 FDSL: 11AF TWNC: SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF		1200 RTLT 35h 56m 46s 0000 RTLT 35h 56m 52s ↓ 2329 DISA GYRPTH 2352 ----- FULL MRO ----- 0619 2352 - AACs - 0136 0137 --- FDS --- 0348 0349 CCSA - 0504 0505 CCSB - 0619 EL-40 2337 ↓ CR-5T 0620 ↓																																							
FDS MODE XB DATA RATE(MI)		<table border="1"> <tr> <td>CR-5T</td> <td>EL-40</td> <td>CR-5T</td> </tr> <tr> <td>160(32)</td> <td>40(30)</td> <td>160(32)</td> </tr> </table>																												CR-5T	EL-40	CR-5T	160(32)	40(30)	160(32)						
CR-5T	EL-40	CR-5T																																							
160(32)	40(30)	160(32)																																							
VGR COVERAGE		<table border="1"> <tr> <td>ON CALL</td> <td>VGR</td> </tr> </table>																												ON CALL	VGR										
ON CALL	VGR																																								
NOTES		[1] S/C 31=EL-40 @ 1800 XB=40(30) [2] S/C 31=CR-5T @ 1821 XB=160(32)																																							
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UTC:		DEC 21														DEC 22																									

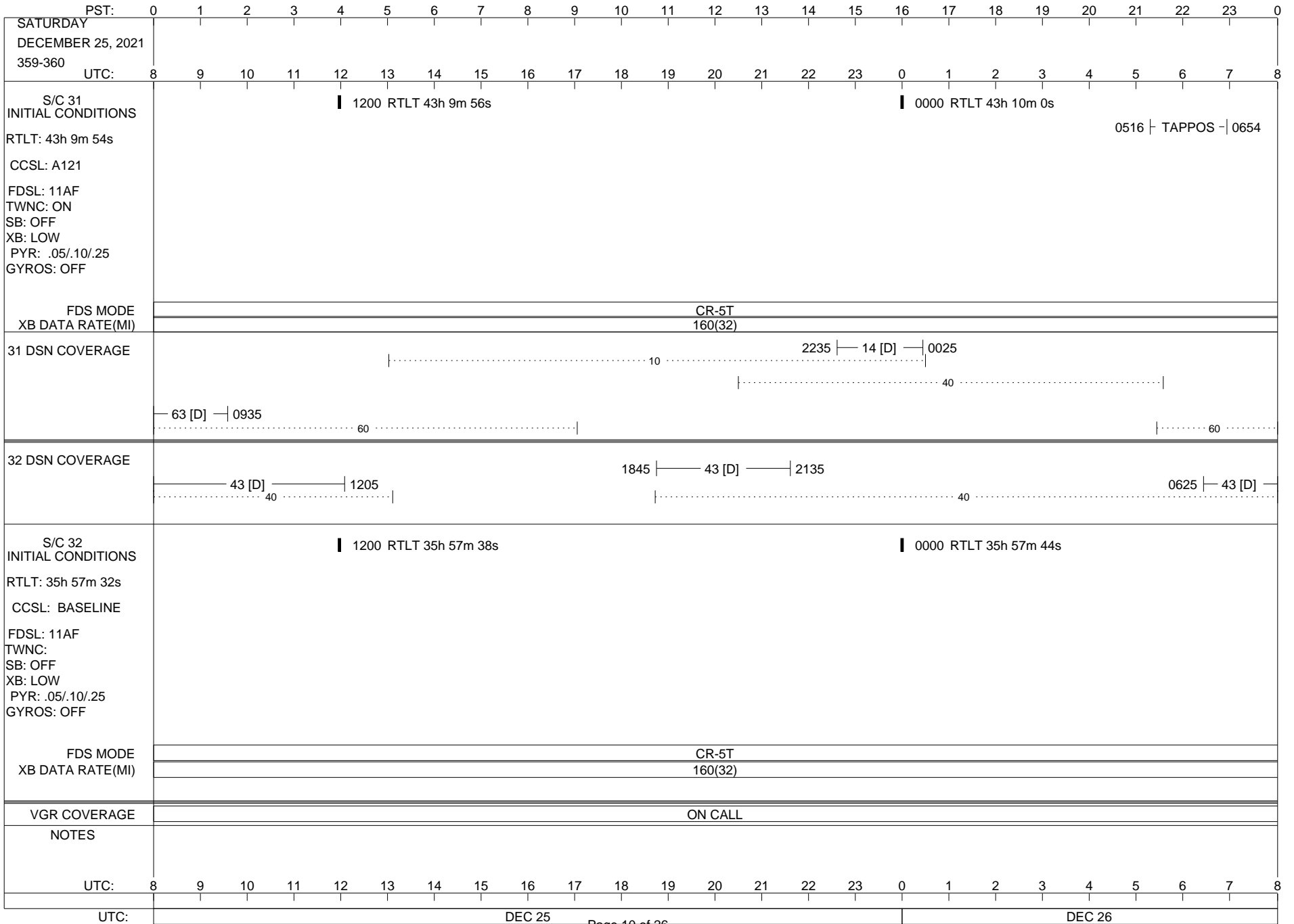
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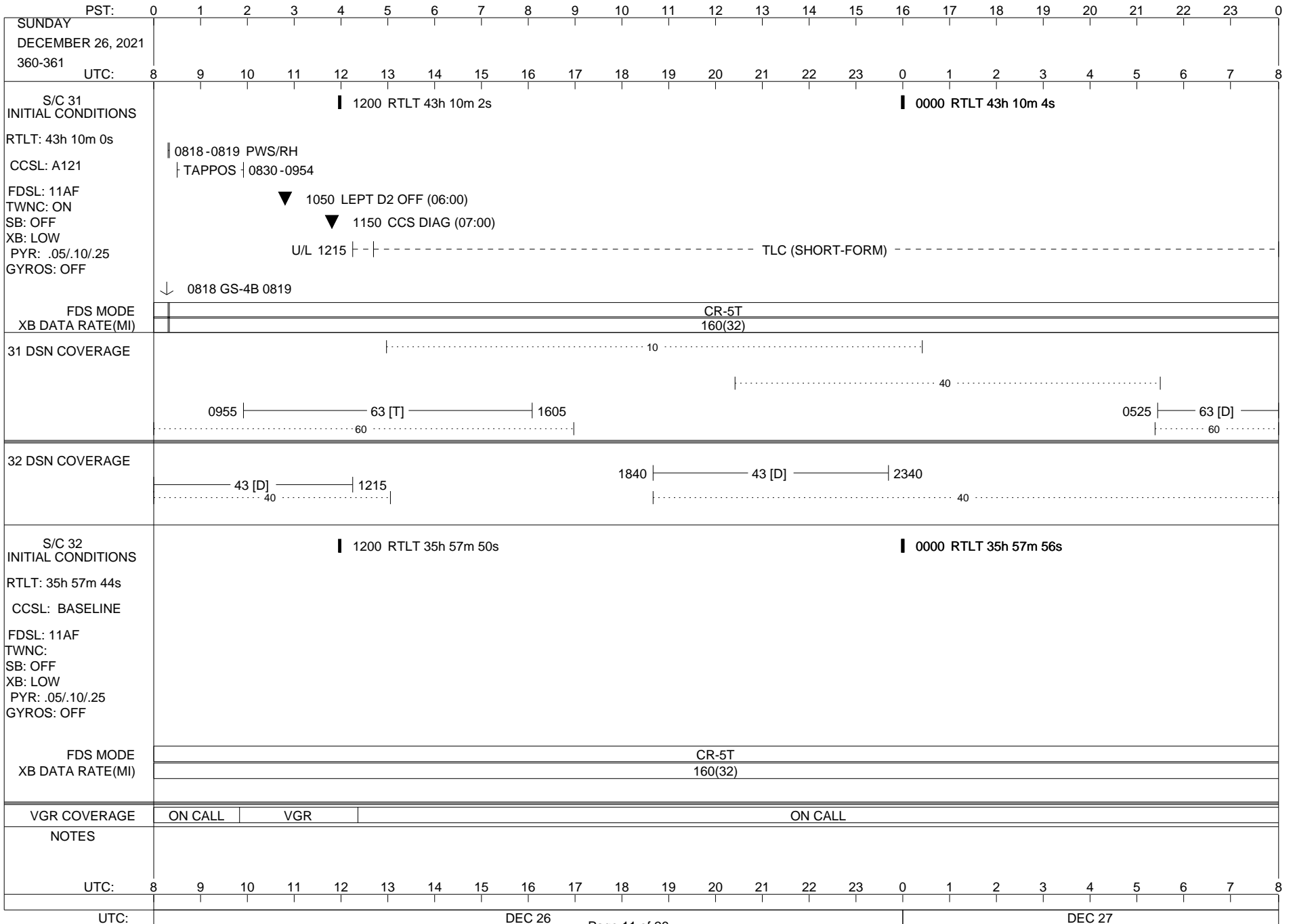
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WEDNESDAY																												
DECEMBER 22, 2021																												
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S/C 31 INITIAL CONDITIONS		█ 1200 RTLT 43h 9m 40s											█ 0000 RTLT 43h 9m 42s															
RTLT: 43h 9m 36s																												
CCSL: A121																												
FDSL: 11AF																												
TWNC: ON																												
SB: OFF																												
XB: LOW																												
PYR: .05/.10/.25																												
GYROS: OFF																												
FDS MODE													CR-5T															
XB DATA RATE(MI)													160(32)															
31 DSN COVERAGE		<div style="display: flex; justify-content: space-between;"> 1315 14 [D] 2030 </div> <hr/> <div style="display: flex; justify-content: space-between;"> 60 10 40 0540-0715 63 [D] 60 </div>																										
32 DSN COVERAGE		<div style="display: flex; justify-content: space-between;"> 43 [o] 1320 </div> <hr/> <div style="display: flex; justify-content: space-between;"> 40 40 </div>																										
S/C 32 INITIAL CONDITIONS		█ 1200 RTLT 35h 57m 0s											█ 0000 RTLT 35h 57m 6s															
RTLT: 35h 56m 52s																												
CCSL: B194																												
FDSL: 11AF																												
TWNC:																												
SB: OFF																												
XB: LOW																												
PYR: .05/.10/.25																												
GYROS: OFF																												
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		
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ISSUE DATE: 12/20/21 12:46







ISSUE DATE: 12/20/21 12:46

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

MONDAY
DECEMBER 27, 2021
361-362

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 10m 4s
 CCSL: A121
 FDSL: 11AF
 TWNC: ON
 SB: OFF
 XB: LOW
 PYR: .05/.10/.25
 GYROS: OFF

1200 RTLT 43h 10m 8s
 0000 RTLT 43h 10m 10s

LEPT D2 OFF 0601↓ *

----- TLC (SHORT-FORM) ----- D/L

FDS MODE
XB DATA RATE(MI) CR-5T
160(32)

31 DSN COVERAGE

.....| 10 |.....|
| 40 |.....|
 63 [D] | 1105
| 60 |.....|
 0535 | 63 [D] |
| 60 |.....|

32 DSN COVERAGE

0900 | 43 [D] | 1300
| 40 |.....|
 1840 | 43 [o] | 0220
| 40 |.....|

S/C 32
INITIAL CONDITIONS
 RTLT: 35h 57m 56s
 CCSL: BASELINE
 FDSL: 11AF
 TWNC:
 SB: OFF
 XB: LOW
 PYR: .05/.10/.25
 GYROS: OFF

1200 RTLT 35h 58m 2s
 0000 RTLT 35h 58m 10s

FDS MODE
XB DATA RATE(MI) CR-5T
160(32)

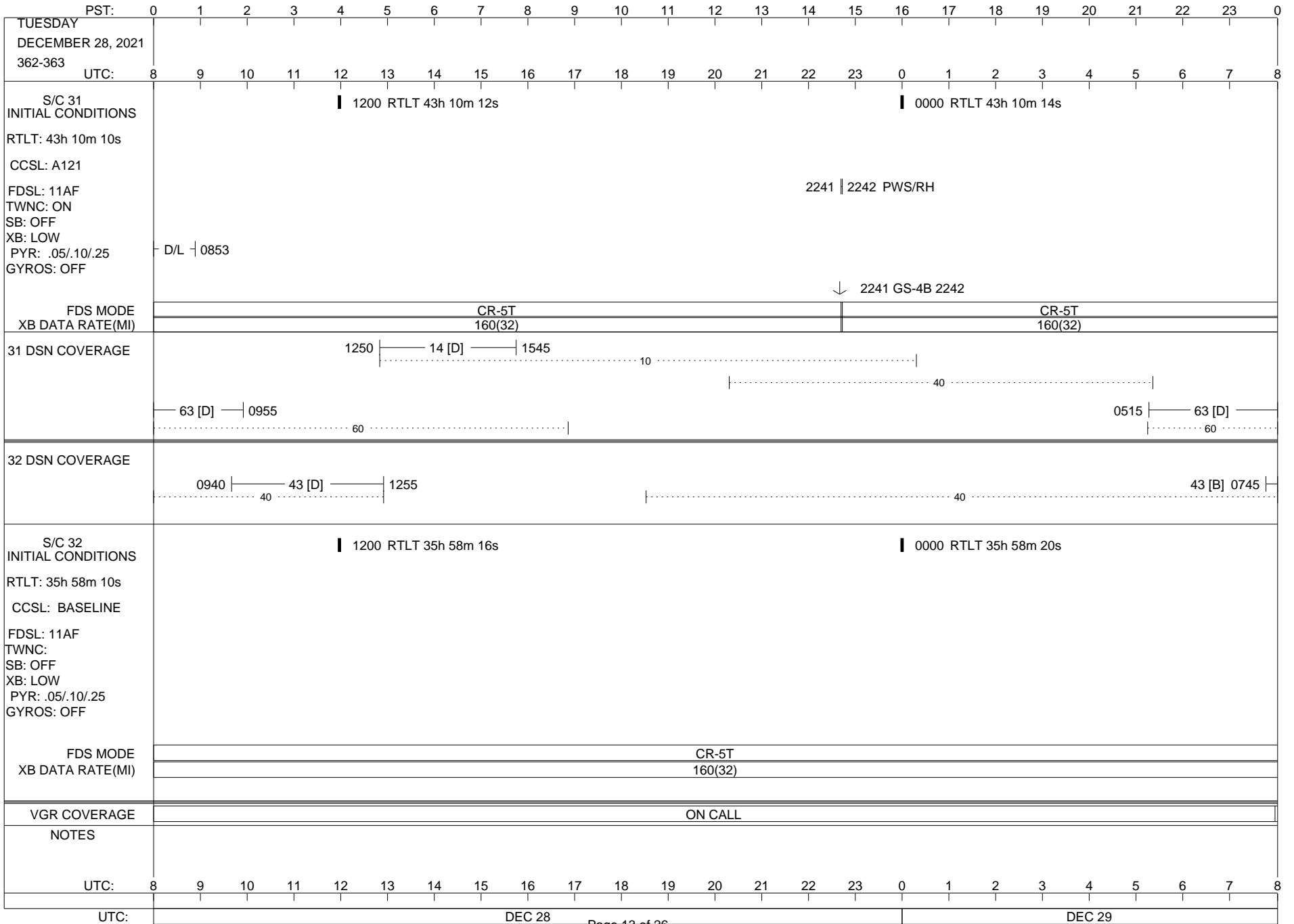
VGR COVERAGE ON CALL VGR ON CALL

NOTES

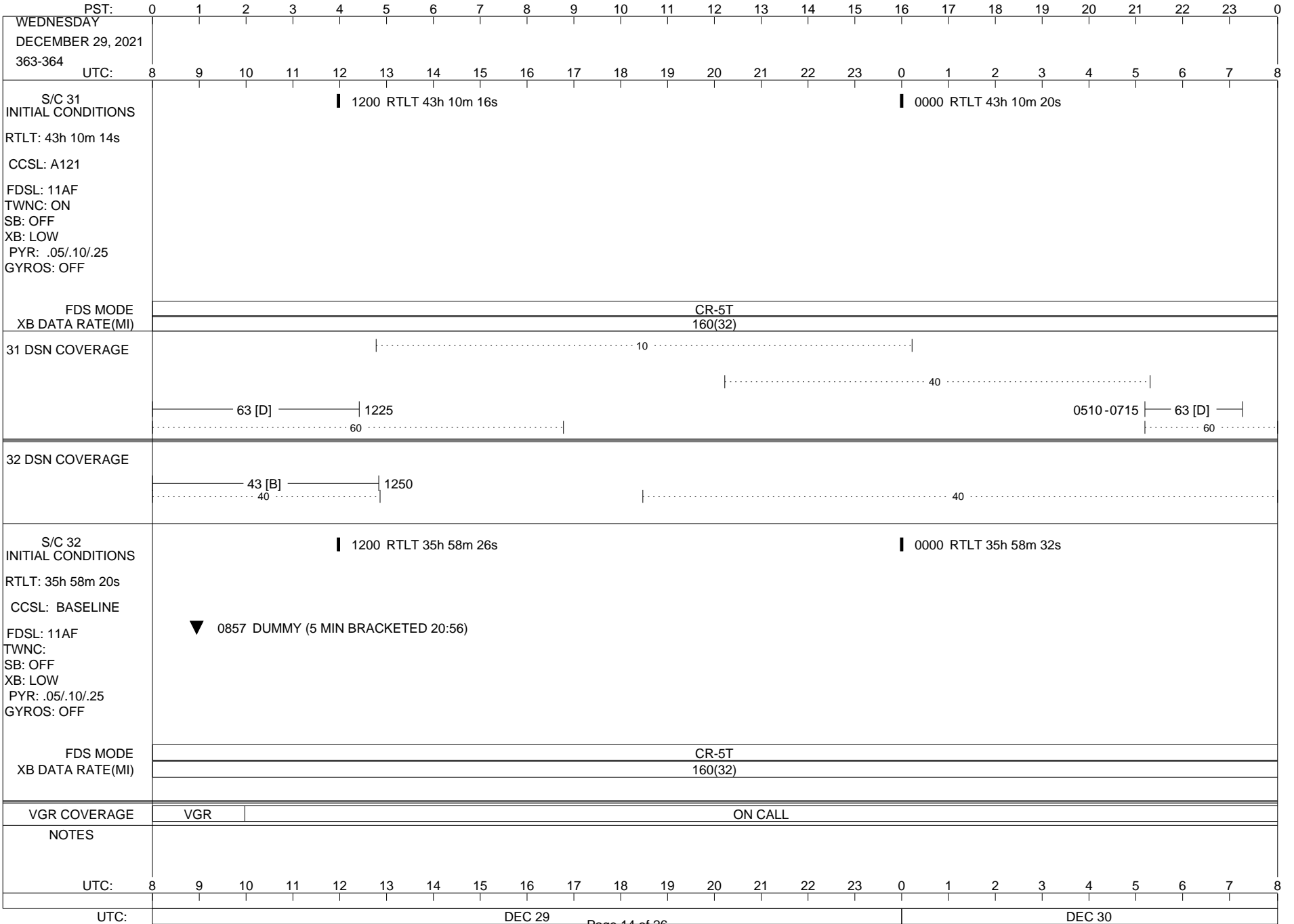
JPL HOLIDAY!

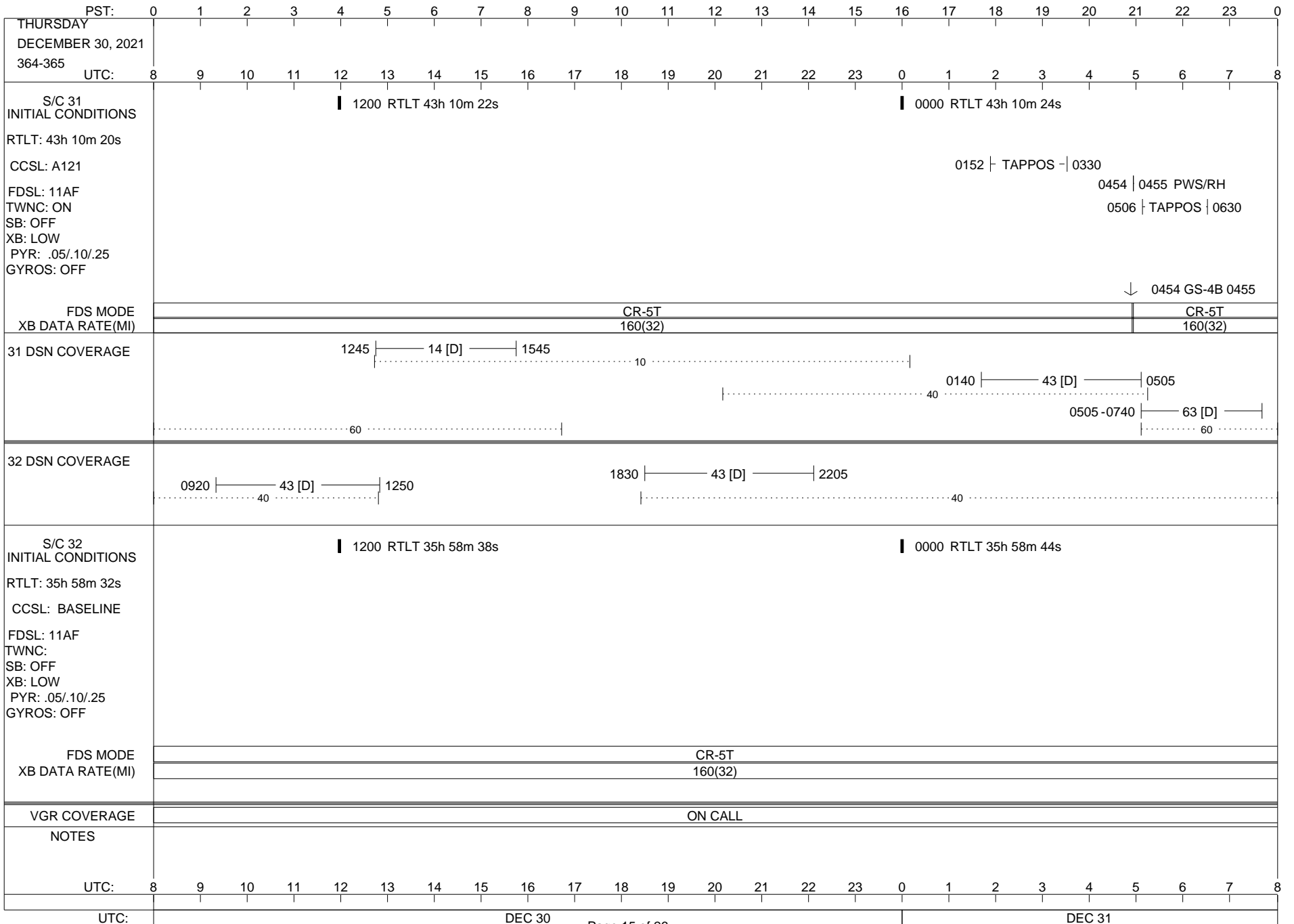
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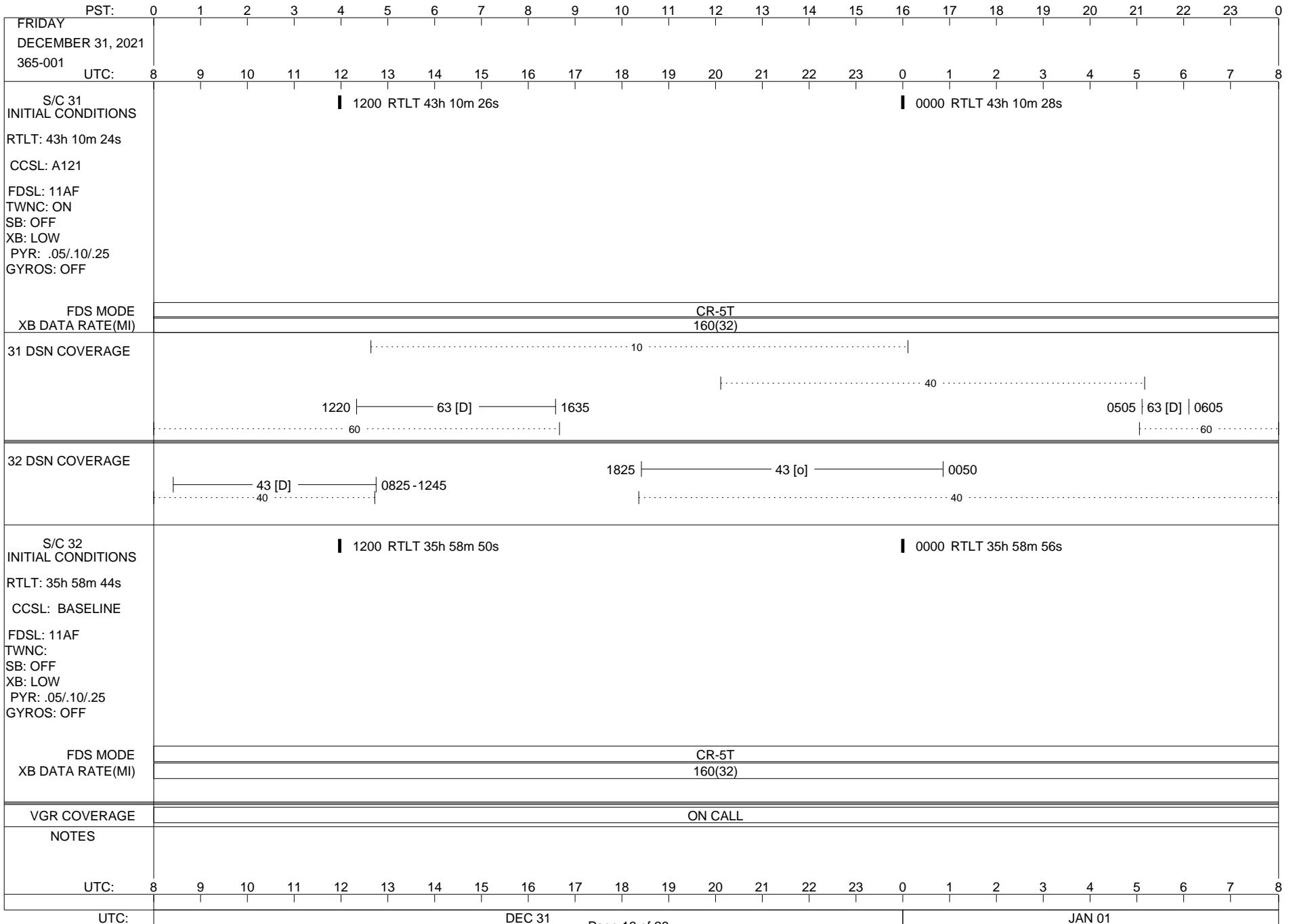
UTC: DEC 27 Page 12 of 26 DEC 28

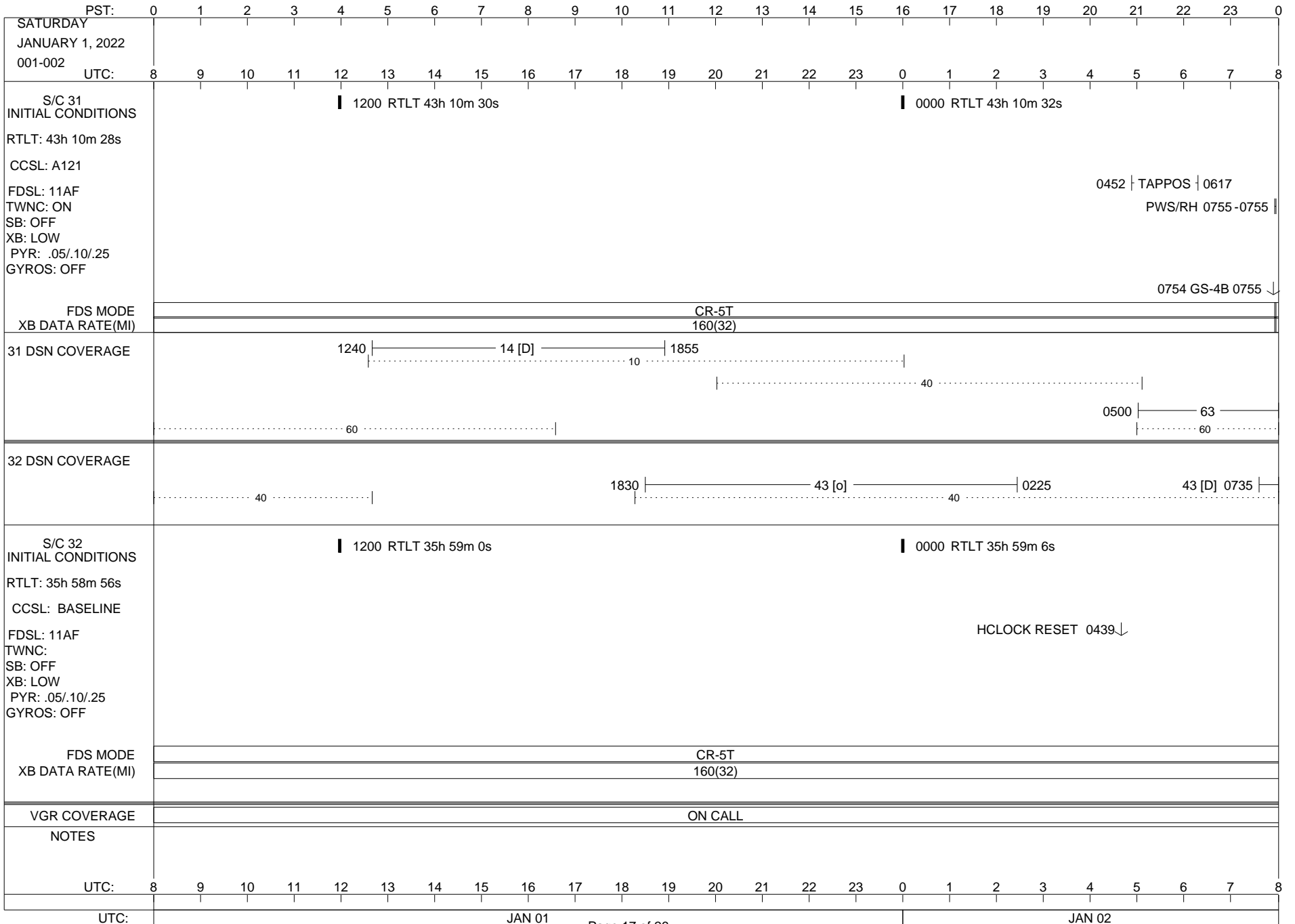


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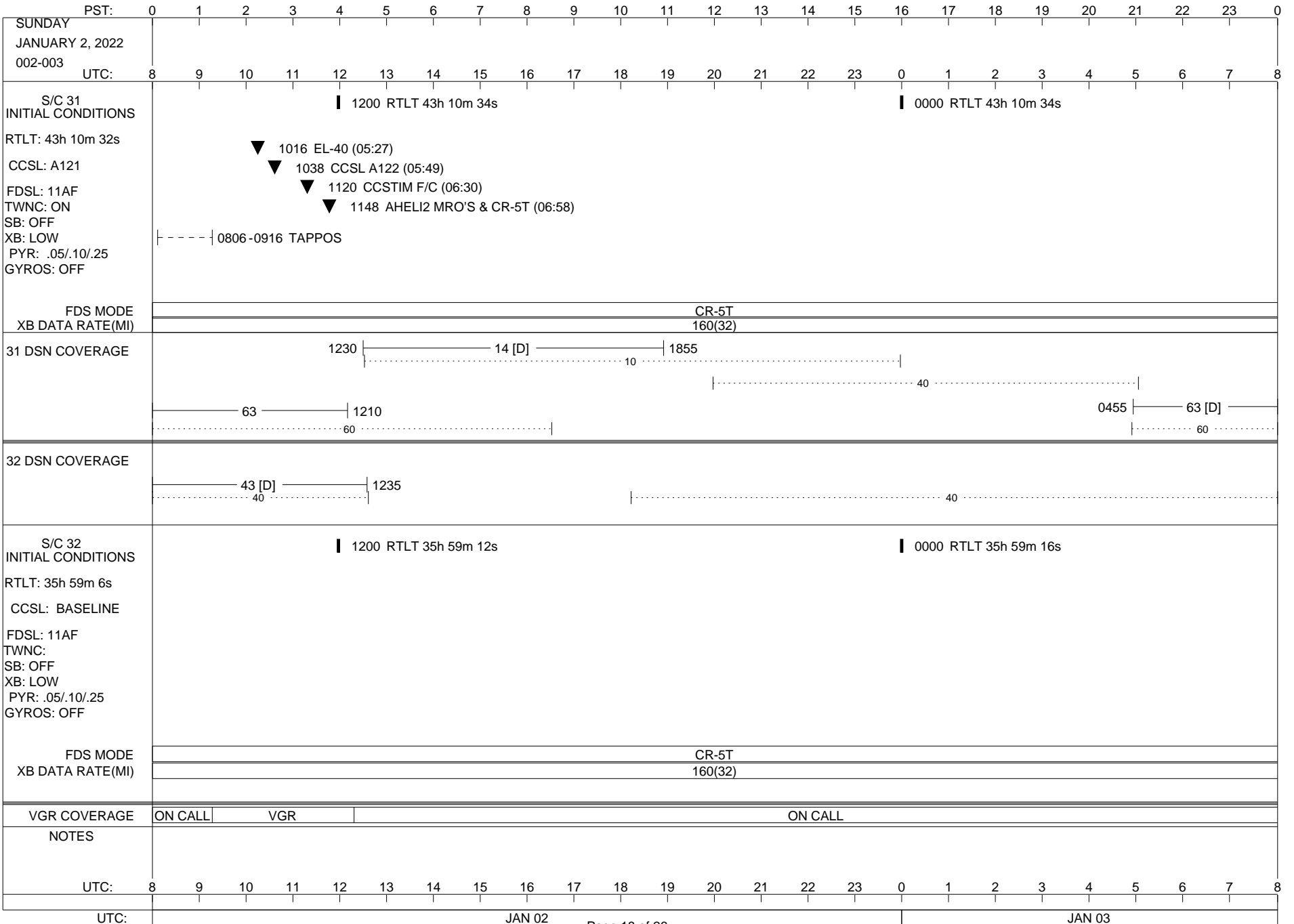




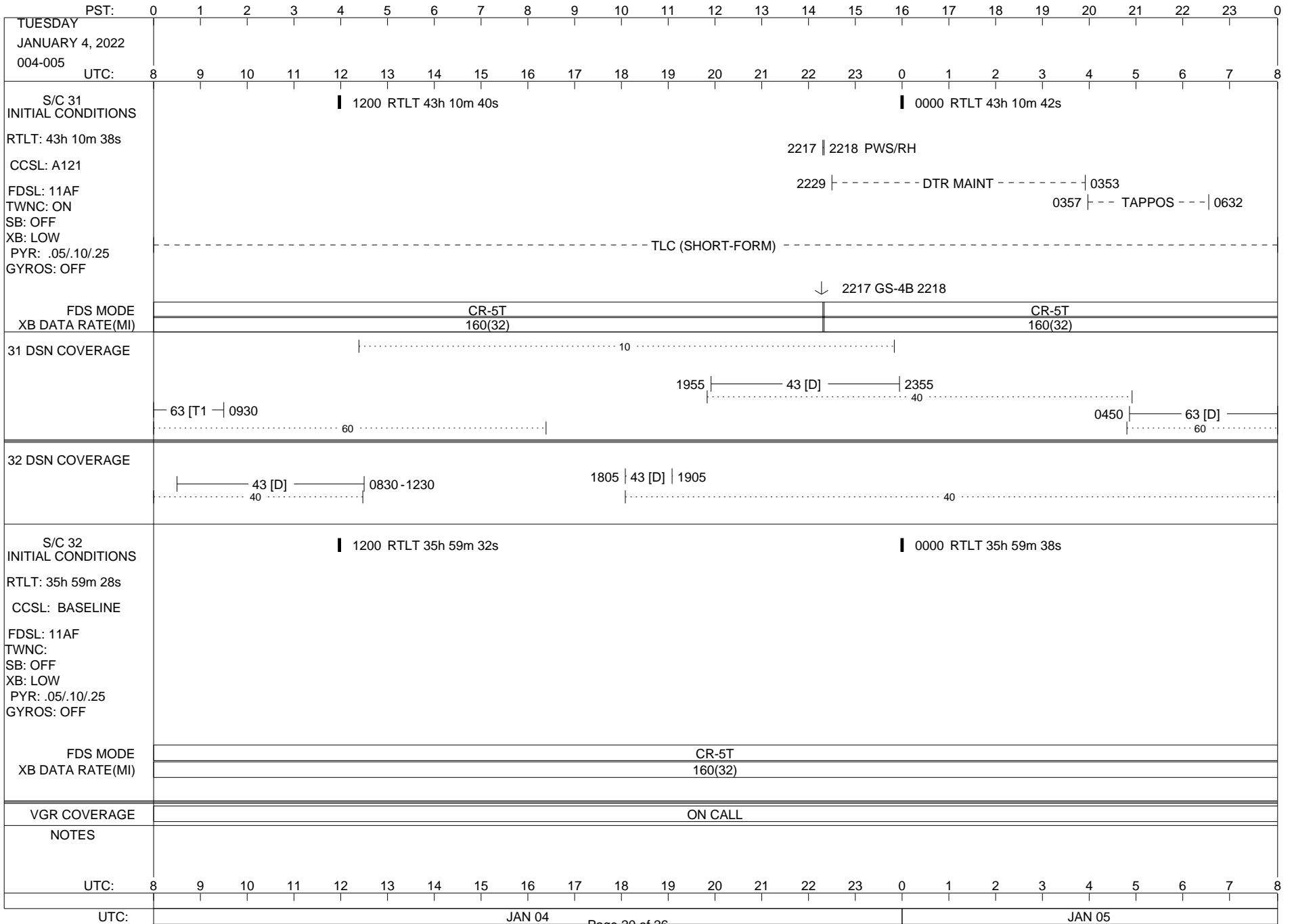




ISSUE DATE: 12/20/21 12:46



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MONDAY JANUARY 3, 2022 003-004																									
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 10m 34s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/.25 GYROS: OFF	1200 RTLT 43h 10m 36s												0000 RTLT 43h 10m 38s												
FDS MODE	CR-5T												EL-40												
XB DATA RATE(MI)	160(32)												40(30)												
31 DSN COVERAGE	1230 ----- 14 [D] ----- 1445												10 ----- 40 -----												
	0855 63 [D]												0455 ----- 63 [T1]												
	60 -----												60 -----												
32 DSN COVERAGE	43 [D] ----- 0830-1230												40 ----- 40 -----												
S/C 32 INITIAL CONDITIONS RTLTL: 35h 59m 16s CCSL: BASELINE FDSL: 11AF TWNC: SB: OFF XB: LOW PYR: .05/10/.25 GYROS: OFF	1200 RTLT 35h 59m 22s												0000 RTLT 35h 59m 28s												
FDS MODE	CR-5T																								
XB DATA RATE(MI)	160(32)																								
VGR COVERAGE	ON CALL												VGR												
NOTES	[1] A122 BACKUP U/L SUPPORT [2] S/C 31=EL-40 @ 0528 XB=40(30) [3] S/C 31=CR-5T @ 0704 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 03												JAN 04												

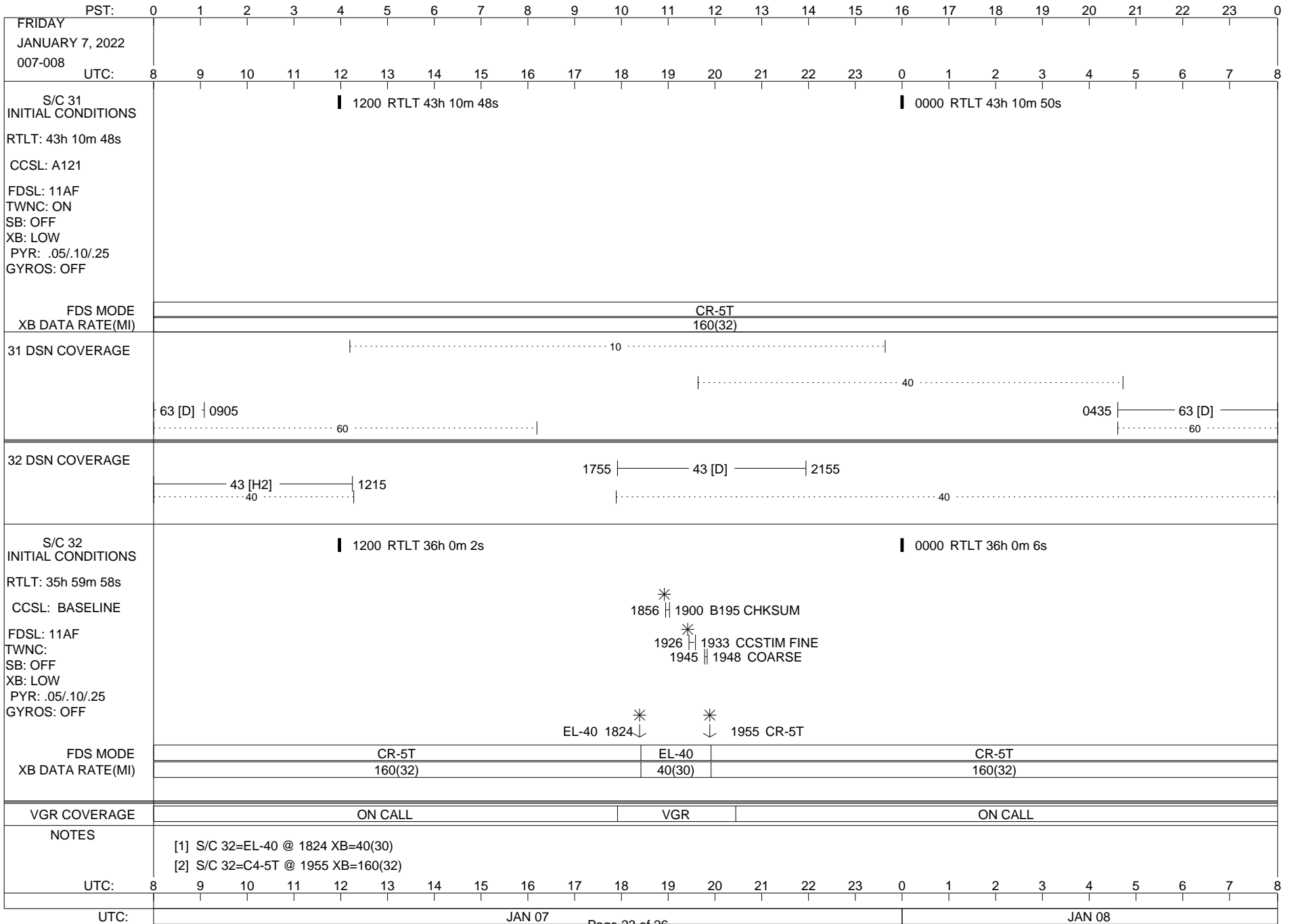


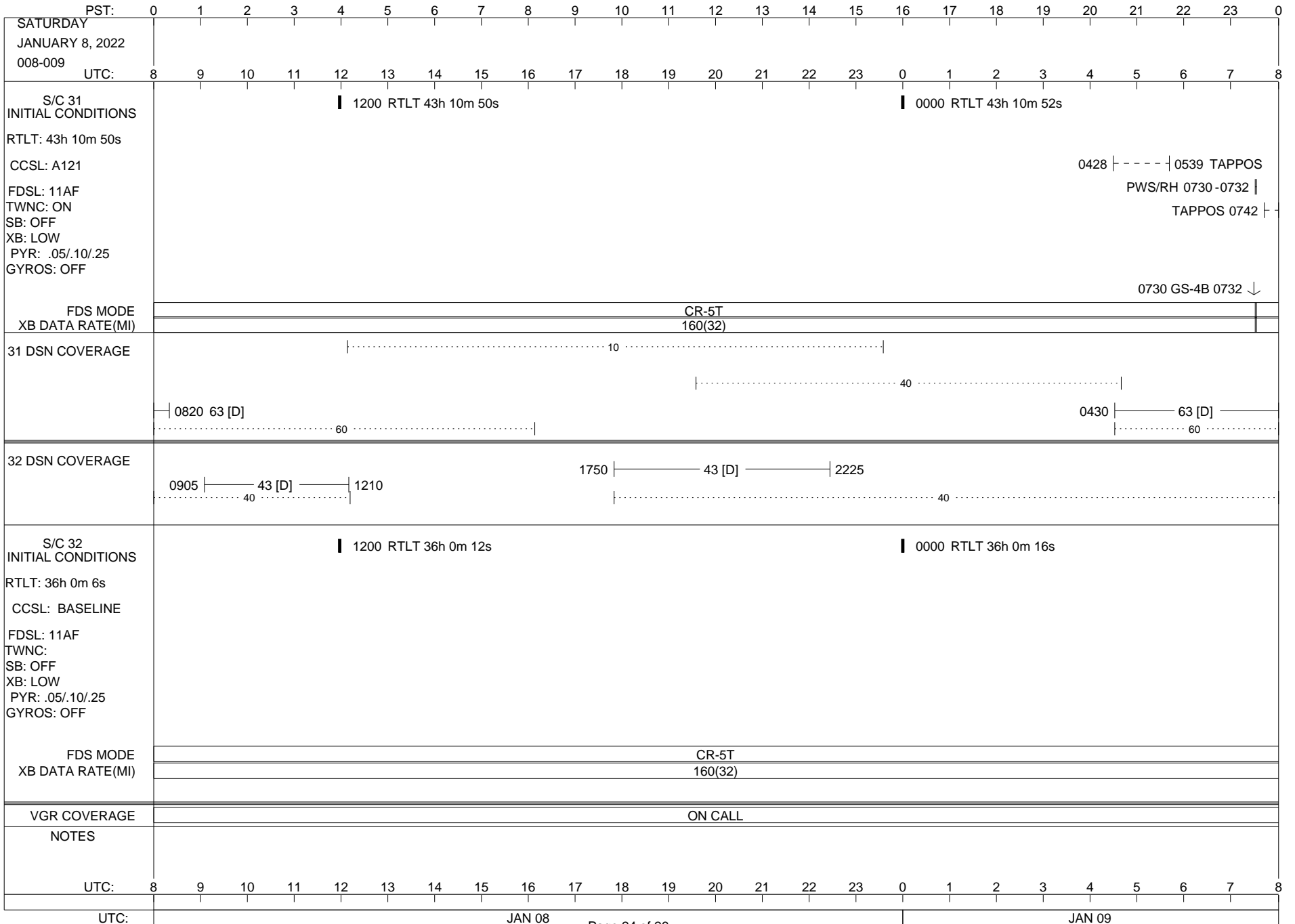
ISSUE DATE: 12/20/21 12:46

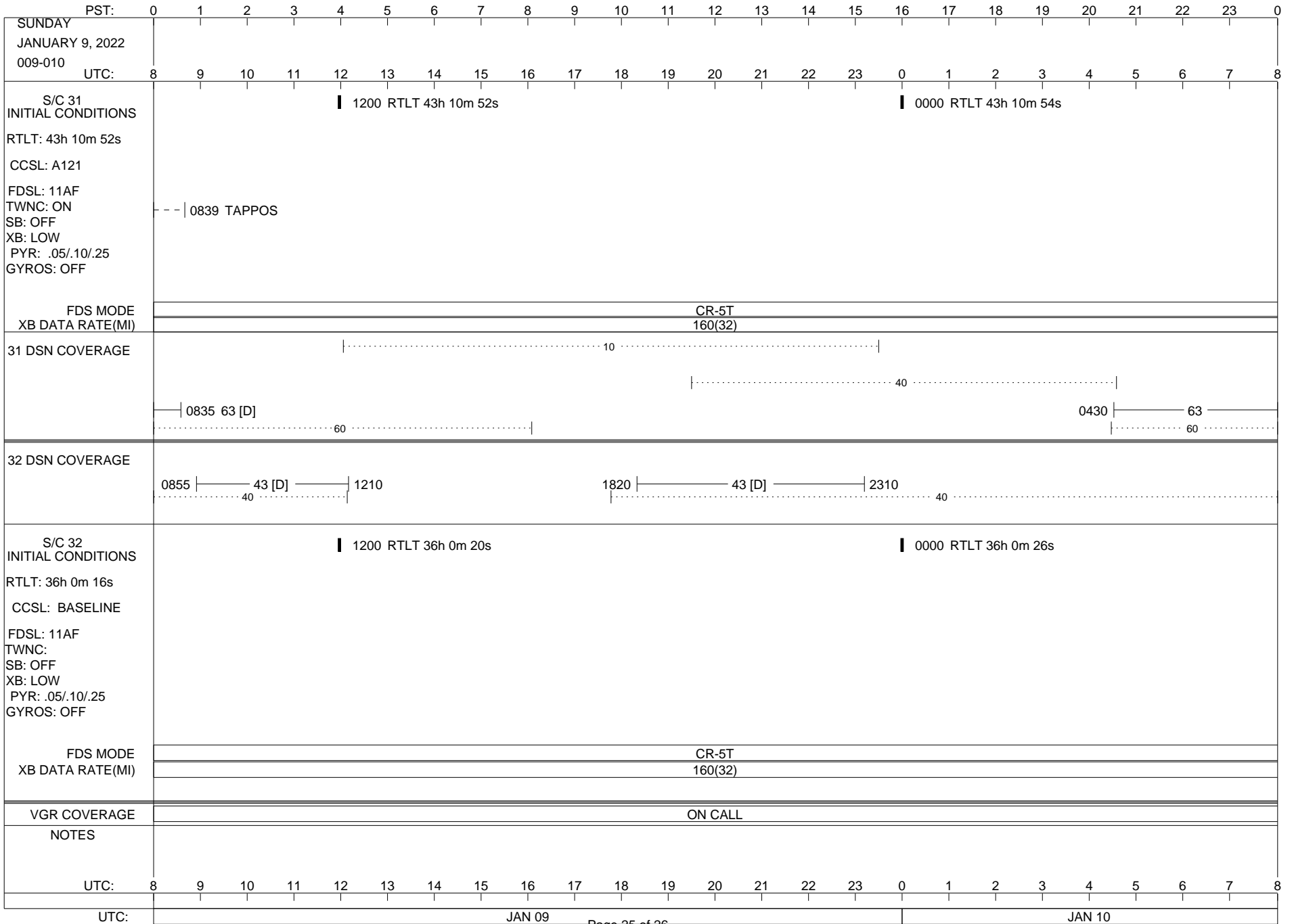
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UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8			
S/C 31 INITIAL CONDITIONS RTLT: 43h 10m 42s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 43h 10m 42s												0000 RTLT 43h 10m 44s															
	1401 --- MAGCAL --- 1711												1401 --- PESCAL --- 1728															
	----- TLC (SHORT-FORM) ----- D/L - 0354																											
FDS MODE															CR-5T													
XB DATA RATE(MI)															160(32)													
31 DSN COVERAGE	<p>.....10.....</p> <p>0050 ----- 43 [D] ----- 0440</p> <p>.....40.....</p> <p> 0815 63 [D]60.....</p> <p>.....60.....</p> <p>0445-0755 ----- 63 [D] ----- </p> <p>.....60.....</p>																											
32 DSN COVERAGE	<p>0910 ----- 43 [D] ----- 1225</p> <p>.....40.....</p> <p>.....40.....</p> <p>0555 ----- 43 [H1] ----- </p>																											
S/C 32 INITIAL CONDITIONS RTLT: 35h 59m 38s CCSL: BASELINE FDSL: 11AF TWNC: SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 59m 42s												0000 RTLT 35h 59m 48s															
	<p>EL-40 (18:23) 0623▼</p> <p>CCSL B195 (18:44) 0645▼</p> <p>CCSTIM F/C (19:26) 0726▼</p> <p>CR-5T (19:54) 0754▼</p>																											
FDS MODE															CR-5T													
XB DATA RATE(MI)															160(32)													
VGR COVERAGE	ON CALL																					VGR						
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 05														JAN 06													

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 JANUARY 6, 2022 006-007																												
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 10m 44s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 43h 10m 46s														█ 0000 RTLT 43h 10m 48s													
																		0128 TAPPOS 0253		0430 0431 PWS/RH		0442 - - - - 0552 TAPPOS						
																								↓ 0430 GS-4B 0432				
FDS MODE	CR-5T																	CR-5T										
XB DATA RATE(MI)	160(32)																	160(32)										
31 DSN COVERAGE 10 40										0440 63 [D]							
 60 60							
32 DSN COVERAGE	43 [H1]				1215				1800 43 [D]				1900				0650 43 [H2]											
 40 40																							
S/C 32 INITIAL CONDITIONS RTLT: 35h 59m 48s CCSL: BASELINE FDSL: 11AF TWNC: SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 35h 59m 52s														█ 0000 RTLT 35h 59m 58s													
FDS MODE	CR-5T																	CR-5T										
XB DATA RATE(MI)	160(32)																	160(32)										
VGR COVERAGE	ON CALL																											
NOTES	[1] HP DRV OFF <= 10:55 [2] B195 BACKUP U/L SUPPORT																											
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 06														JAN 07													

ISSUE DATE: 12/20/21 12:46







ISSUE DATE: 12/20/21 12:46

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
MONDAY JANUARY 10, 2022 010-011	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 10m 54s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 43h 10m 54s																								
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE 10 63 0830 60																								
32 DSN COVERAGE 40 1930 43 [D] 2040																								
S/C 32 INITIAL CONDITIONS RTLT: 36h 0m 26s CCSL: BASELINE FDSL: 11AF TWNC: SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 36h 0m 30s																								
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:	JAN 10												JAN 11												