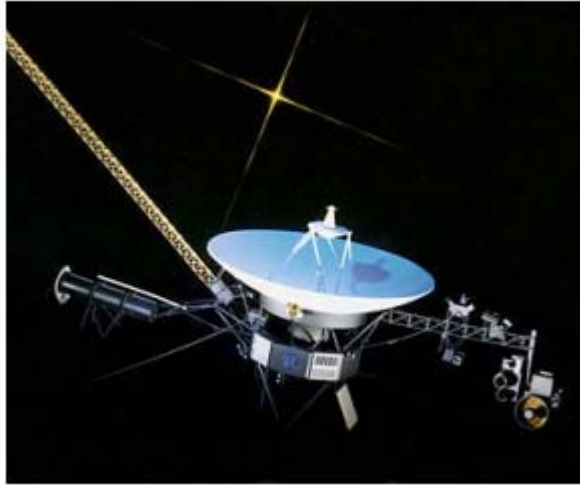


VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: December 15, 2020

For the Period: 12/17/20 to 01/04/21 (20/352 – 21/004)



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: 12/15/20 11:51

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 17, 2020
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: 42h 9m 48s
CCSL: A117
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10.25
GYROS: OFF

1200 RTLT 42h 9m 50s
0000 RTLT 42h 9m 54s

▼ 1420 CCS DIAG (08:30)
1427 | | 1443 SHUNT POWER TEST
U/L 1445 | - | - - - - - TLC (SHORT-FORM) - - - - -

0234 | - - - - | 0344 TAPPOS
0535 | 0537 PWS/RH
0547-0712 | TAPPOS |
0535 GS-4B 0537 ↓

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

31 DSN COVERAGE
1350 | - 14 [T] - | 1545
| 10 |
| 40 |
| 60 | 0555 | 63 [D] |
| 60 |

32 DSN COVERAGE
34 [DA] | 1115
35 [DAR] | 1115
| 40 | 40 |
34 [DA] 0650 |
35 [DAR] 0650 |

S/C 32
INITIAL CONDITIONS
RTLT: 35h 3m 6s
CCSL: N/A
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF

1200 RTLT 35h 3m 12s
0000 RTLT 35h 3m 20s

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

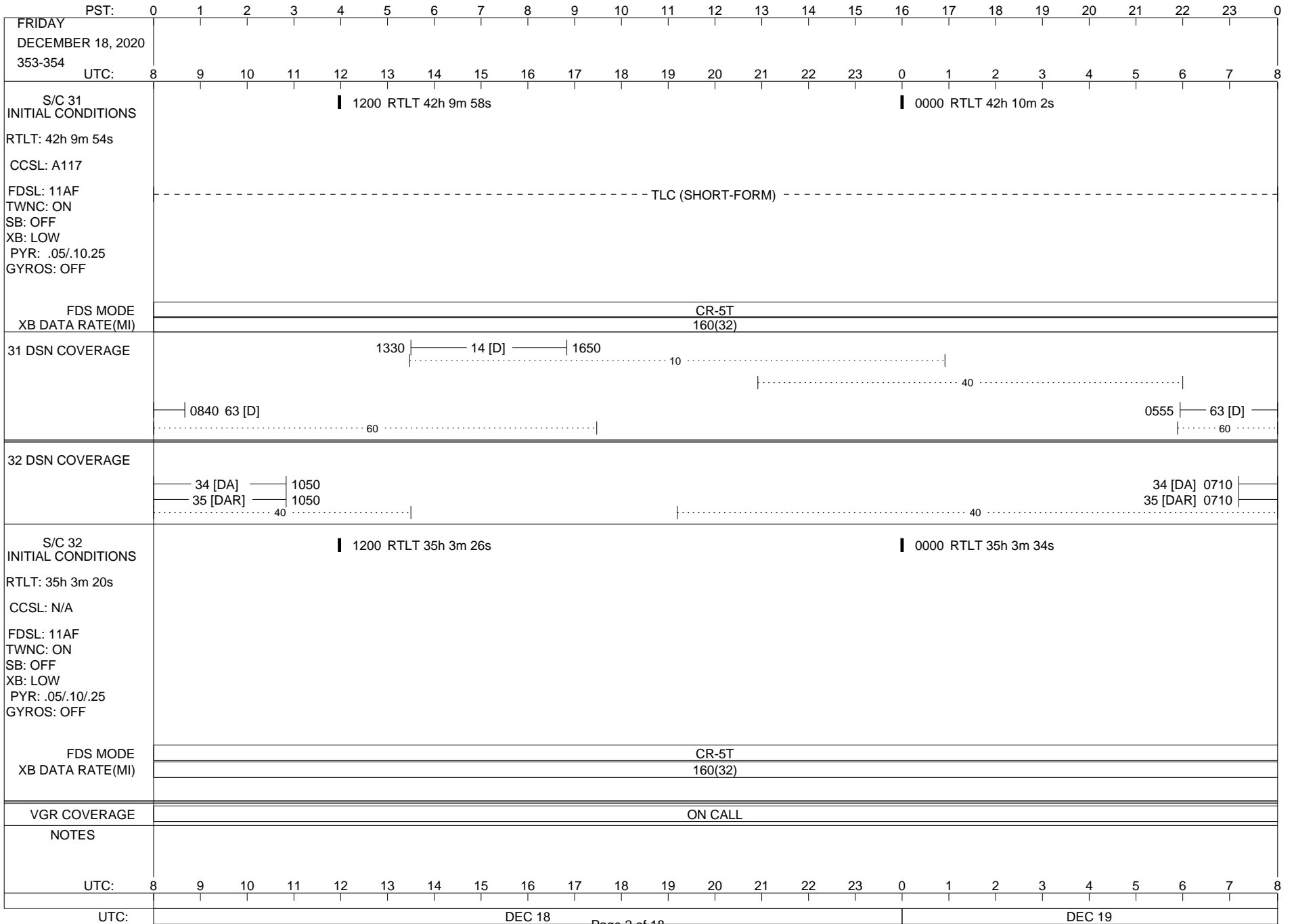
VGR COVERAGE ON CALL VGR ON CALL

NOTES

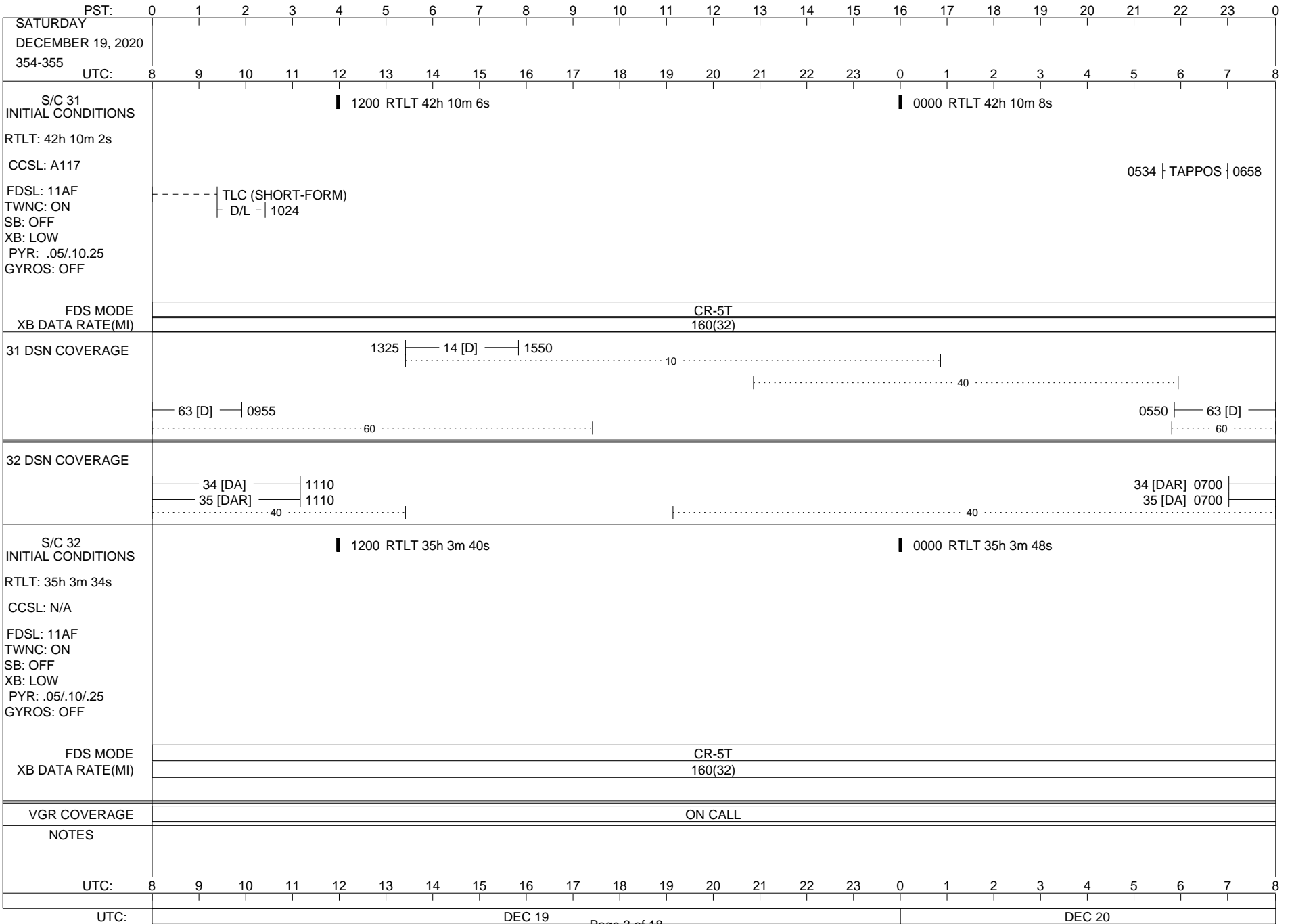
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UTC: DEC 17 DEC 18

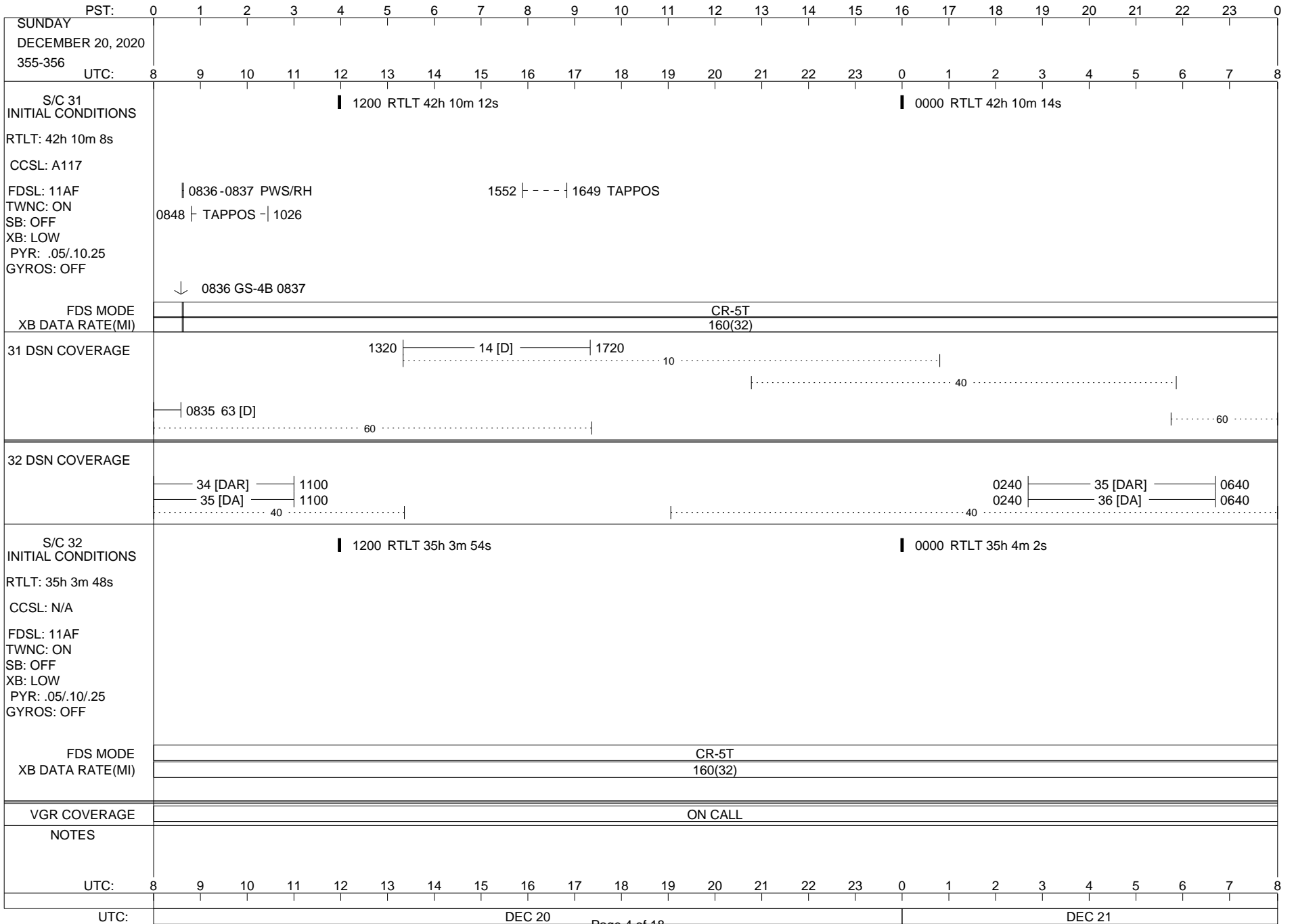
ISSUE DATE: 12/15/20 11:51



ISSUE DATE: 12/15/20 11:51



ISSUE DATE: 12/15/20 11:51



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 21, 2020 356-357																					
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: 42h 10m 14s CCSL: A117 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10.25 GYROS: OFF	1200 RTLT 42h 10m 18s 0000 RTLT 42h 10m 22s																				
	↓ 1450 BAY 1 HTR OFF ↓ 1454 X/B HI POWER ↓ 1502 YAW=.05 1512 ----- PLAYBACK ----- 2148 ↓ 2158 YAW=.10 ↓ 2202 X/B LOW POWER ↓ 2206 BAY 1 HTR ON TAPPOS 0601 - 0627																				
	↓ 1512 PB-14 1512 ↓ 2148 CR-5T 2148																				
	<table border="1"> <tr> <td>FDS MODE</td> <td>CR-5T</td> <td>PB-14</td> <td>CR-5T</td> </tr> <tr> <td>XB DATA RATE(MI)</td> <td>160(32)</td> <td>1.4K(39)</td> <td>160(32)</td> </tr> </table>	FDS MODE	CR-5T	PB-14	CR-5T	XB DATA RATE(MI)	160(32)	1.4K(39)	160(32)												
FDS MODE	CR-5T	PB-14	CR-5T																		
XB DATA RATE(MI)	160(32)	1.4K(39)	160(32)																		
31 DSN COVERAGE	<table border="1"> <tr> <td>1430</td> <td>14 [DA]</td> <td>2230</td> <td></td> </tr> <tr> <td>1430</td> <td>24 [DA]</td> <td>2230</td> <td></td> </tr> <tr> <td>1430</td> <td>25 [DA]</td> <td>2230</td> <td></td> </tr> <tr> <td>1430</td> <td>26 [DAR]</td> <td>2230</td> <td></td> </tr> <tr> <td colspan="2">0540-0715 63 [D] </td> <td colspan="2"></td> </tr> </table>	1430	14 [DA]	2230		1430	24 [DA]	2230		1430	25 [DA]	2230		1430	26 [DAR]	2230		0540-0715 63 [D]			
1430	14 [DA]	2230																			
1430	24 [DA]	2230																			
1430	25 [DA]	2230																			
1430	26 [DAR]	2230																			
0540-0715 63 [D]																					
32 DSN COVERAGE	<table border="1"> <tr> <td>0545 35 [DAR] </td> <td></td> </tr> <tr> <td>0545 36 [DA] </td> <td></td> </tr> </table>	0545 35 [DAR]		0545 36 [DA]																	
0545 35 [DAR]																					
0545 36 [DA]																					
S/C 32 INITIAL CONDITIONS RTLT: 35h 4m 2s CCSL: N/A FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10.25 GYROS: OFF	1200 RTLT 35h 4m 8s 0000 RTLT 35h 4m 14s																				
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																				
VGR COVERAGE	<table border="1"> <tr> <td>ON CALL</td> <td>VGR</td> <td>ON CALL</td> </tr> </table>	ON CALL	VGR	ON CALL																	
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 21 DEC 22																					

ISSUE DATE: 12/15/20 11:51

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 22, 2020
357-358
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: 42h 10m 22s
CCSL: A117
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF

1200 RTLTL 42h 10m 24s

0000 RTLTL 42h 10m 28s

▼ 1420 CCS DIAG (08:30)

U/L 1445 | - | - - - - - TLC (SHORT-FORM) - - - - -

2259 | 2300 PWS/RH

↓ 2259 GS-4B 2300

FDS MODE
XB DATA RATE(MI)

CR-5T
160(32)

CR-5T
160(32)

31 DSN COVERAGE

1330 |-----| 14 [T] |-----| 1715

.....10.....

|-----40-----|

.....60.....

0535 |-----63 [D]-----|
|-----60-----|

32 DSN COVERAGE

35 [DAR] |-----0945
36 [DA] |-----0945

.....40.....

0545 |-----34 [DAR]-----|
0545 |-----35 [DA]-----|

|-----40-----|

S/C 32
INITIAL CONDITIONS
RTLTL: 35h 4m 14s
CCSL: N/A
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF

1200 RTLTL 35h 4m 22s

0000 RTLTL 35h 4m 28s

FDS MODE
XB DATA RATE(MI)

CR-5T
160(32)

VGR COVERAGE

ON CALL

VGR

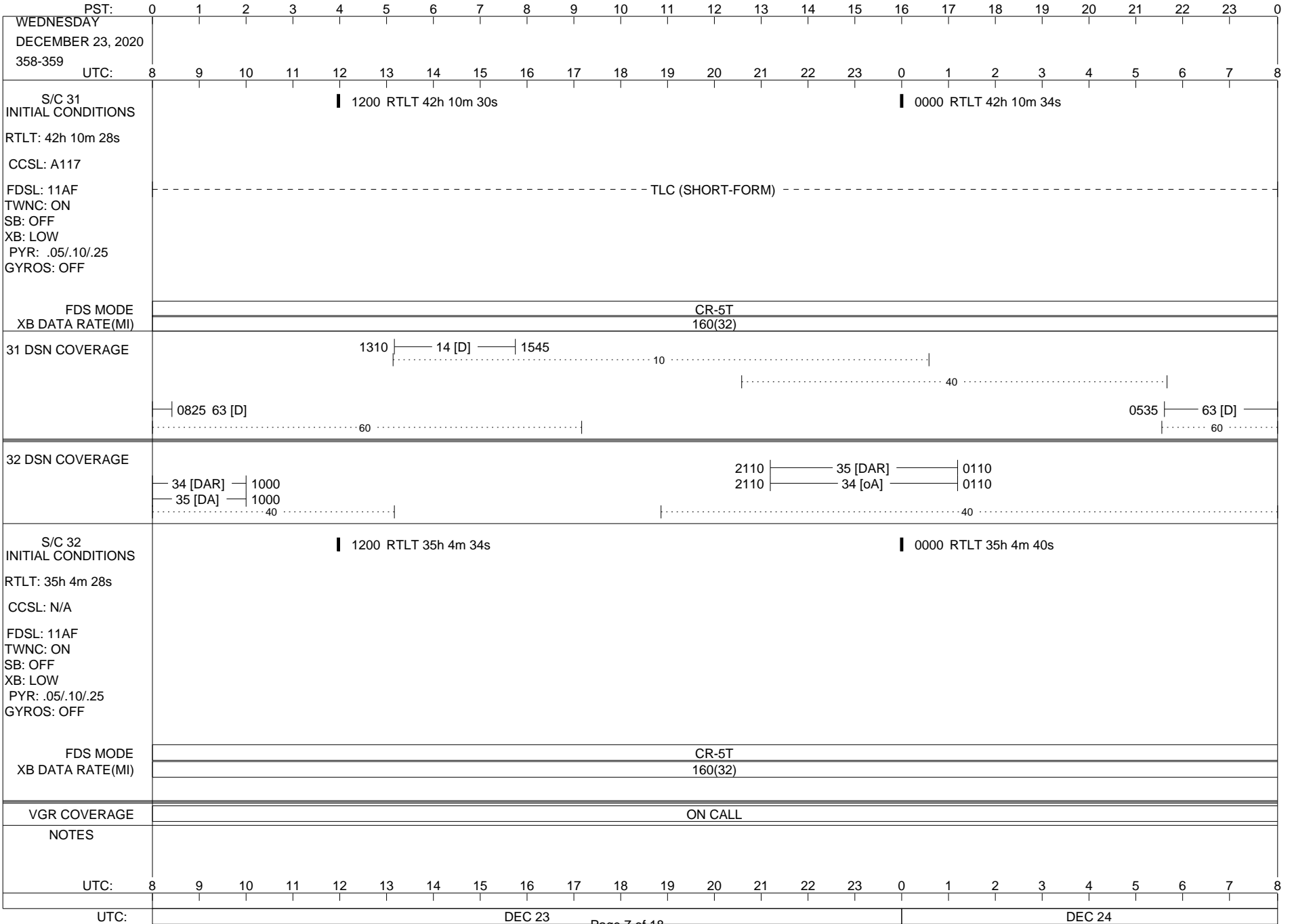
ON CALL

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 22 Page 6 of 18 DEC 23

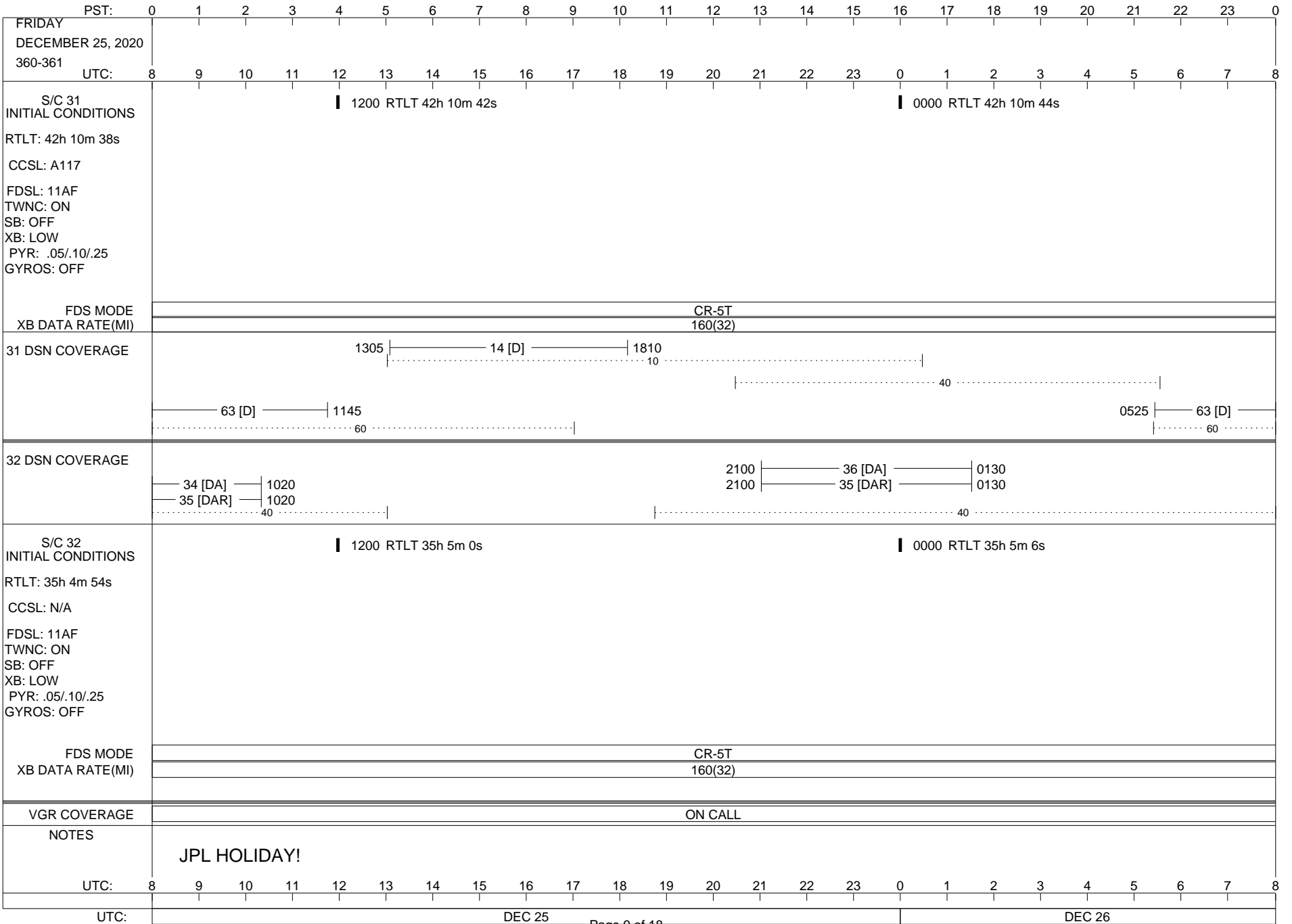
ISSUE DATE: 12/15/20 11:51



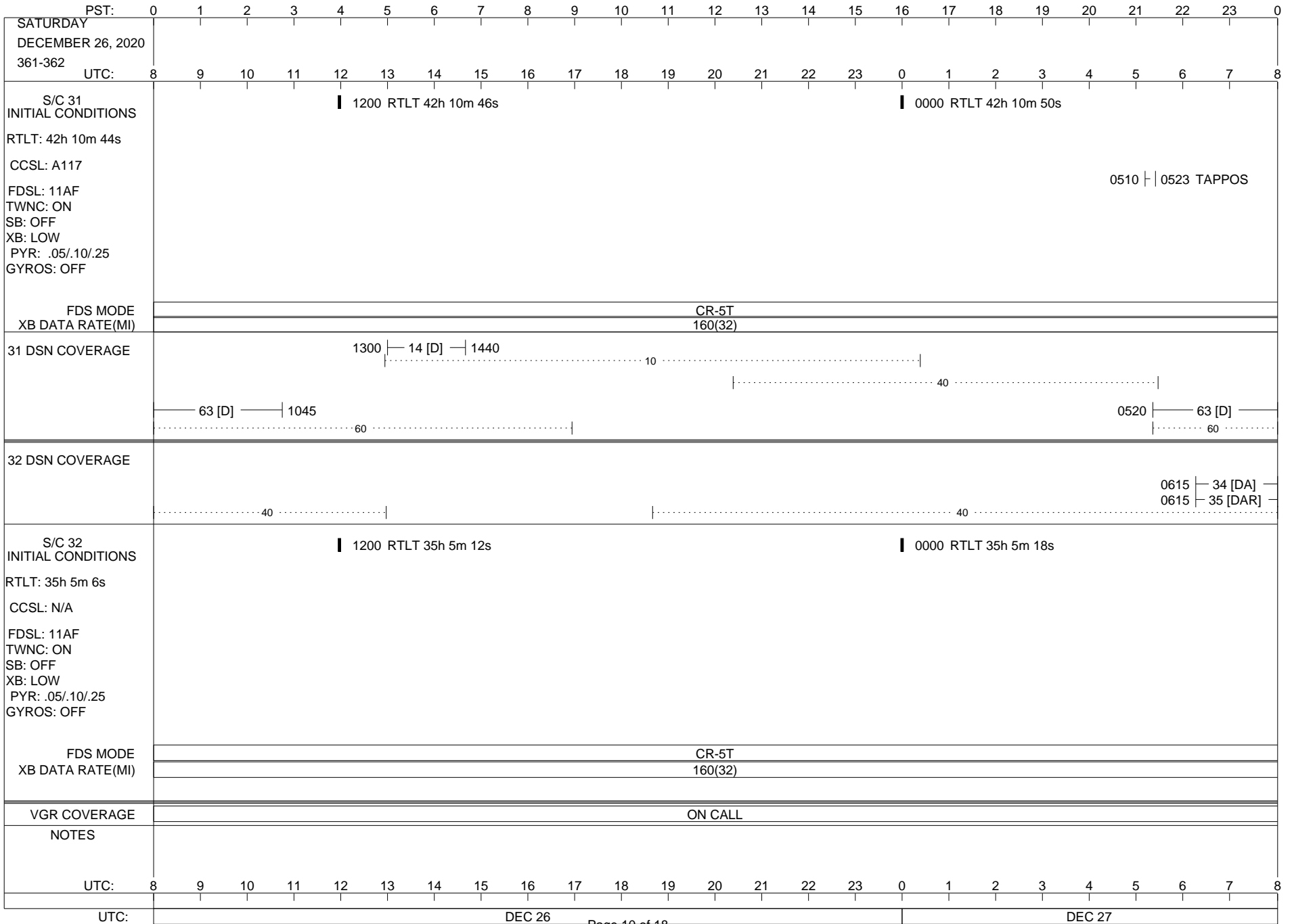
ISSUE DATE: 12/15/20 11:51

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THURSDAY DECEMBER 24, 2020 359-360																									
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: 42h 10m 34s CCSL: A117 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 42h 10m 36s												0000 RTLT 42h 10m 38s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	<p>1305 |----- 14 [D] -----| 1705</p> <p>63 [D] |----- 1045</p> <p>0530 |----- 63 [D] -----</p>																								
32 DSN COVERAGE	<p>0620 |----- 34 [DA] -----</p> <p>0620 |----- 35 [DAR] -----</p>																								
S/C 32 INITIAL CONDITIONS RTLT: 35h 4m 40s CCSL: N/A FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 4m 48s												0000 RTLT 35h 4m 54s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL																								
NOTES	JPL HOLIDAY!																								
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 24												DEC 25												

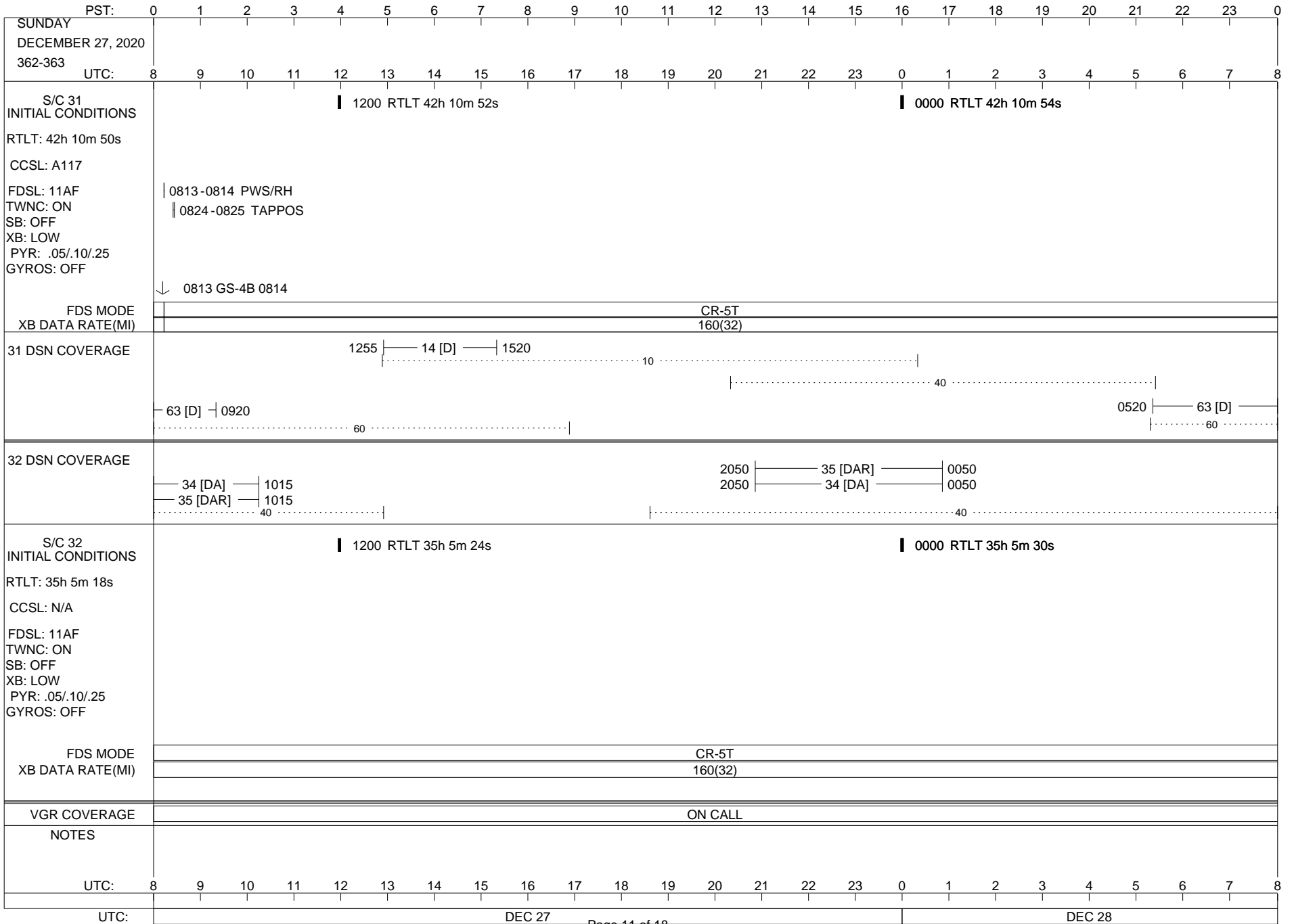
ISSUE DATE: 12/15/20 11:51



ISSUE DATE: 12/15/20 11:51



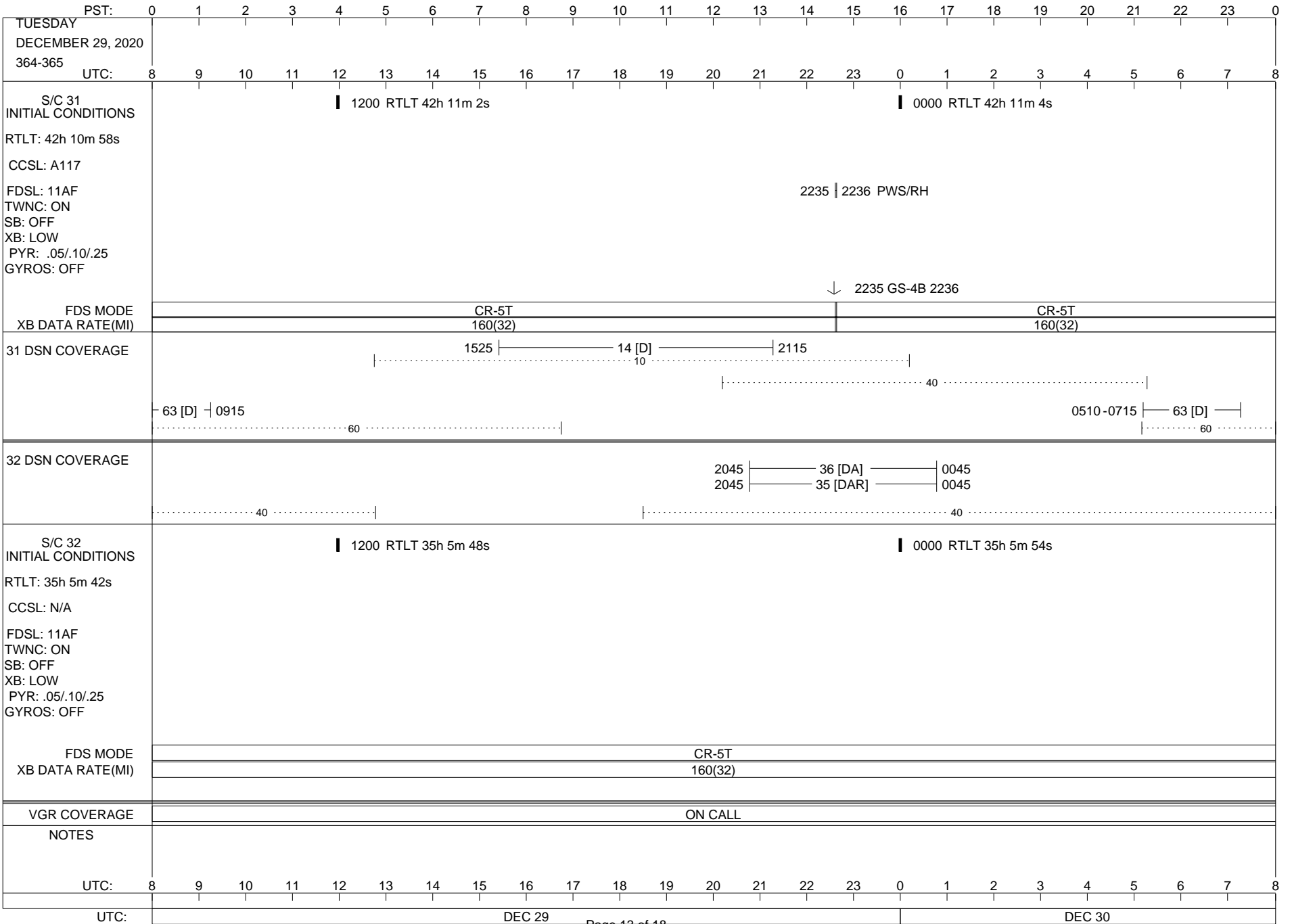
ISSUE DATE: 12/15/20 11:51



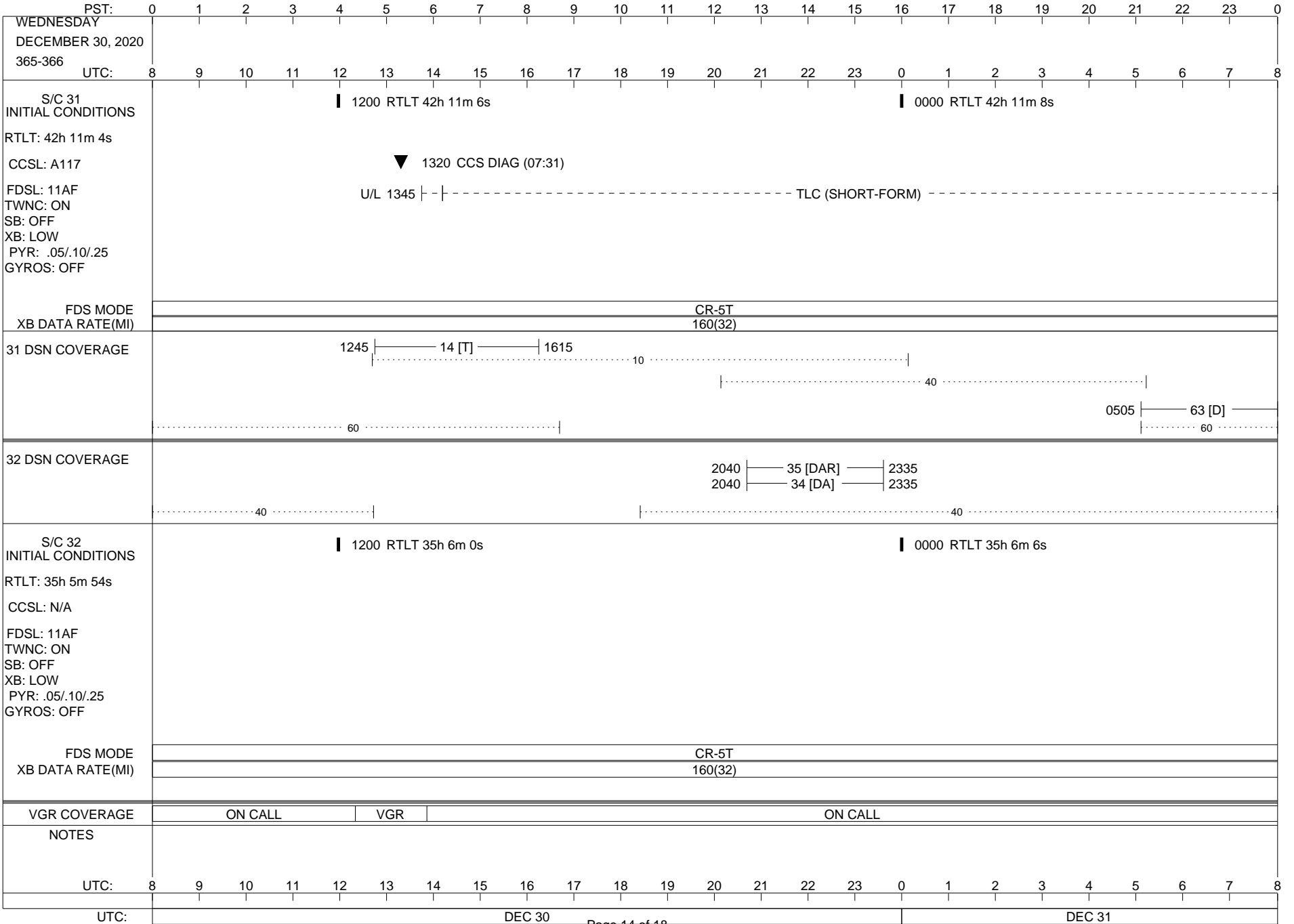
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MONDAY DECEMBER 28, 2020 363-364	UTC: 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLT: 42h 10m 54s CCSL: A117 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 42h 10m 56s												0000 RTLT 42h 10m 58s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	1250 |----- 14 [D] -----| 1650												10 .....|----- 40 -----|												
	63 [D] |----- 0915 -----|												0515 |----- 63 [D] -----|												
	60 .....|----- 40 -----|												60 .....|----- 40 -----|												
32 DSN COVERAGE	2050 |----- 36 [DA] -----| 0050												2050 |----- 35 [DAR] -----| 0050												
	40 .....|----- 40 -----|												40 .....|----- 40 -----|												
S/C 32 INITIAL CONDITIONS RTLT: 35h 5m 30s CCSL: N/A FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 5m 36s												0000 RTLT 35h 5m 42s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE	ON CALL																								
NOTES	JPL HOLIDAY!																								
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 28												DEC 29												

ISSUE DATE: 12/15/20 11:51



ISSUE DATE: 12/15/20 11:51



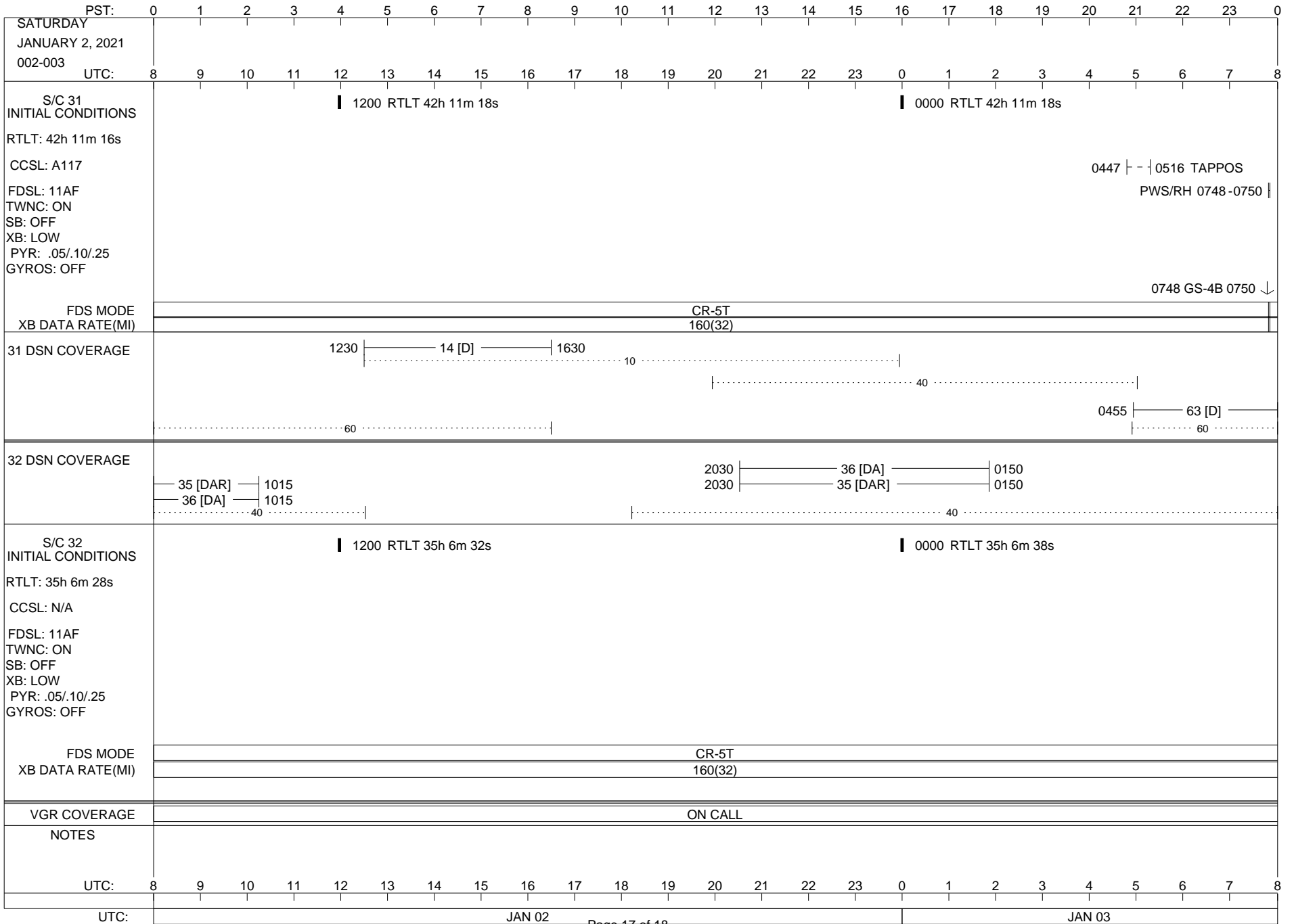
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PST:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0							
THURSDAY DECEMBER 31, 2020 366-001																																
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8							
S/C 31 INITIAL CONDITIONS RTLTL: 42h 11m 8s CCSL: A117 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 42h 11m 10s												█ 0000 RTLTL 42h 11m 12s																			
----- TLC (SHORT-FORM) -----																																
																		0146 | 0202 TAPPOS			0448 | 0450 PWS/RH						0500 | 0529 TAPPOS					
↓ 0448 GS-4B 0450																																
FDS MODE	CR-5T												CR-5T																			
XB DATA RATE(MI)	160(32)												160(32)																			
31 DSN COVERAGE	1240 |----- 14 [D] -----| 1615												..... 10 .....						..... 40						
63 [D] | 0905												..... 60						0500 |----- 63 [D] -----|														
..... 60 .....												..... 60													
32 DSN COVERAGE	..... 40												2035 |----- 35 [DAR] -----| 0035						2035 |----- 34 [oA] -----| 0035												
..... 40 .....												..... 40 .....						..... 40							
S/C 32 INITIAL CONDITIONS RTLTL: 35h 6m 6s CCSL: N/A FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 35h 6m 10s												█ 0000 RTLTL 35h 6m 16s																			
FDS MODE	CR-5T												CR-5T																			
XB DATA RATE(MI)	160(32)												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 31																JAN 01															

ISSUE DATE: 12/15/20 11:51

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
FRIDAY JANUARY 1, 2021 001-002	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: 42h 11m 12s CCSL: A117 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 42h 11m 14s												0000 RTLT 42h 11m 16s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	1235 | 14 [D] | 1500												63 [D] | 0900												
32 DSN COVERAGE	2035 | 36 [DA] | 2315 2035 | 35 [DAR] | 2315												0615 | 35 [DAR] | 0615 | 36 [DA] |												
S/C 32 INITIAL CONDITIONS RTLT: 35h 6m 16s CCSL: N/A FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 6m 22s												0000 RTLT 35h 6m 28s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE	ON CALL																								
NOTES	JPL HOLIDAY!																								
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 01												JAN 02												

ISSUE DATE: 12/15/20 11:51



ISSUE DATE: 12/15/20 11:51

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 JANUARY 3, 2021 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 RTLT: 42h 11m 18s CCSL: A117 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLT 42h 11m 20s</p> <p>0800-0843 TAPPOS</p>																								
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	<p>0855 63 [D]</p> <p>60</p>																								
32 DSN COVERAGE	<p>40</p>																								
S/C 32 INITIAL CONDITIONS RTLT: 35h 6m 38s CCSL: N/A FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLT 35h 6m 44s</p>																								
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 03												JAN 04												