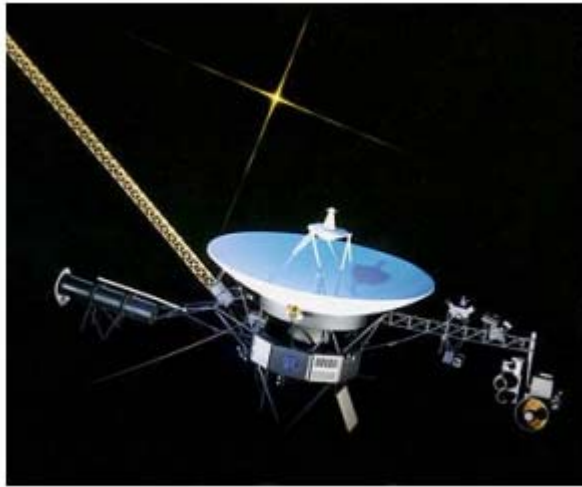


# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: December 13, 2022

For the Period: 12/15/22 to 1/08/23 (22/349 – 23/008)



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

**LEGEND:**

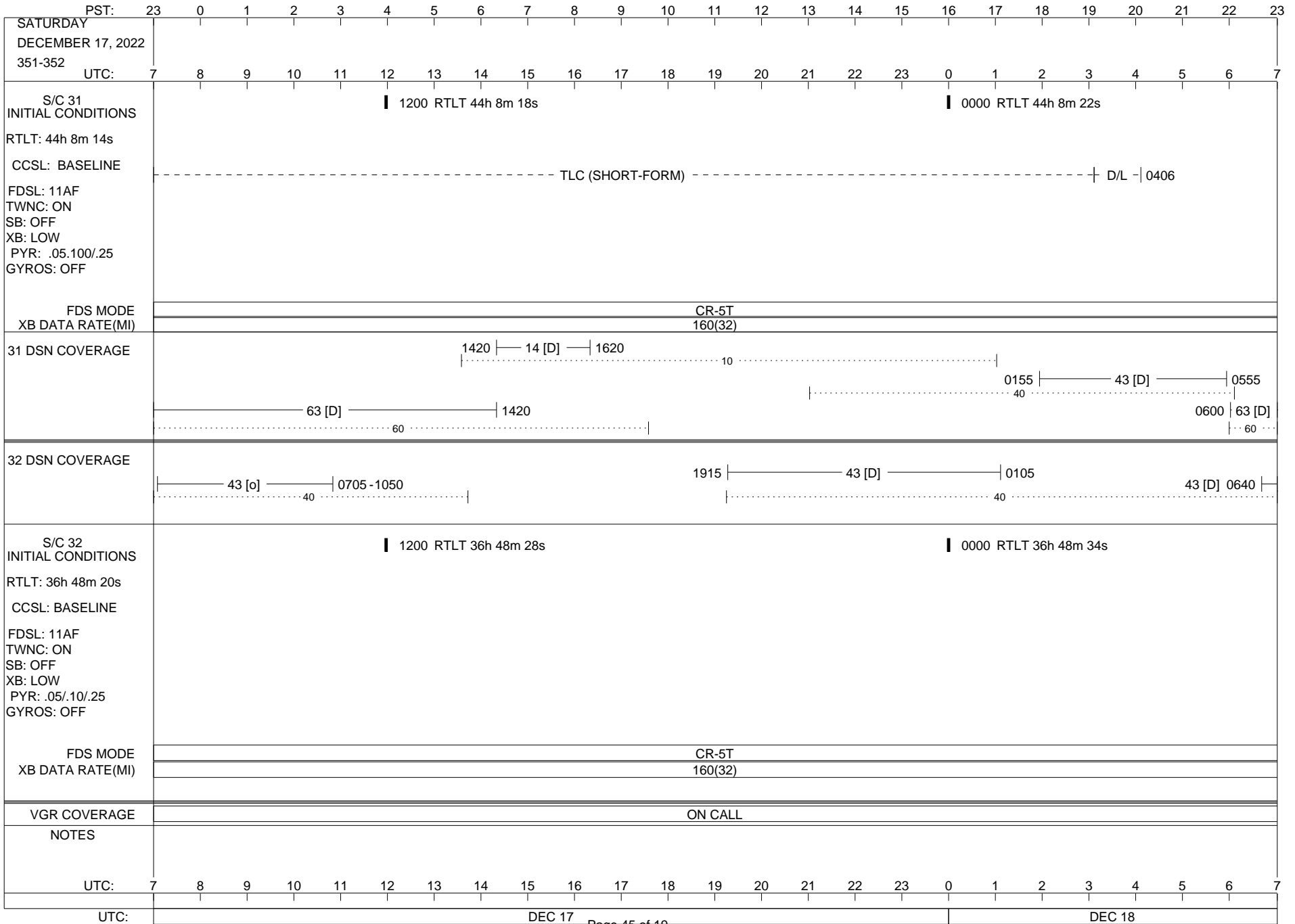
- ▽ = R/T Command (Last chance or Contingency)
- ▼ = R/T Command (Scheduled)
- \* = Result of R/T Command
- n = (where n = 1,2,3 ..) Special Note, see bottom of page
- A = Arrayed station
- B = BLF
- D = Downlink only pass
- H = High Power Transmitter
- R = Array Reference Antenna
- T = TLC Uplink
- U = Uplink only pass
- [o] = Ramp-through

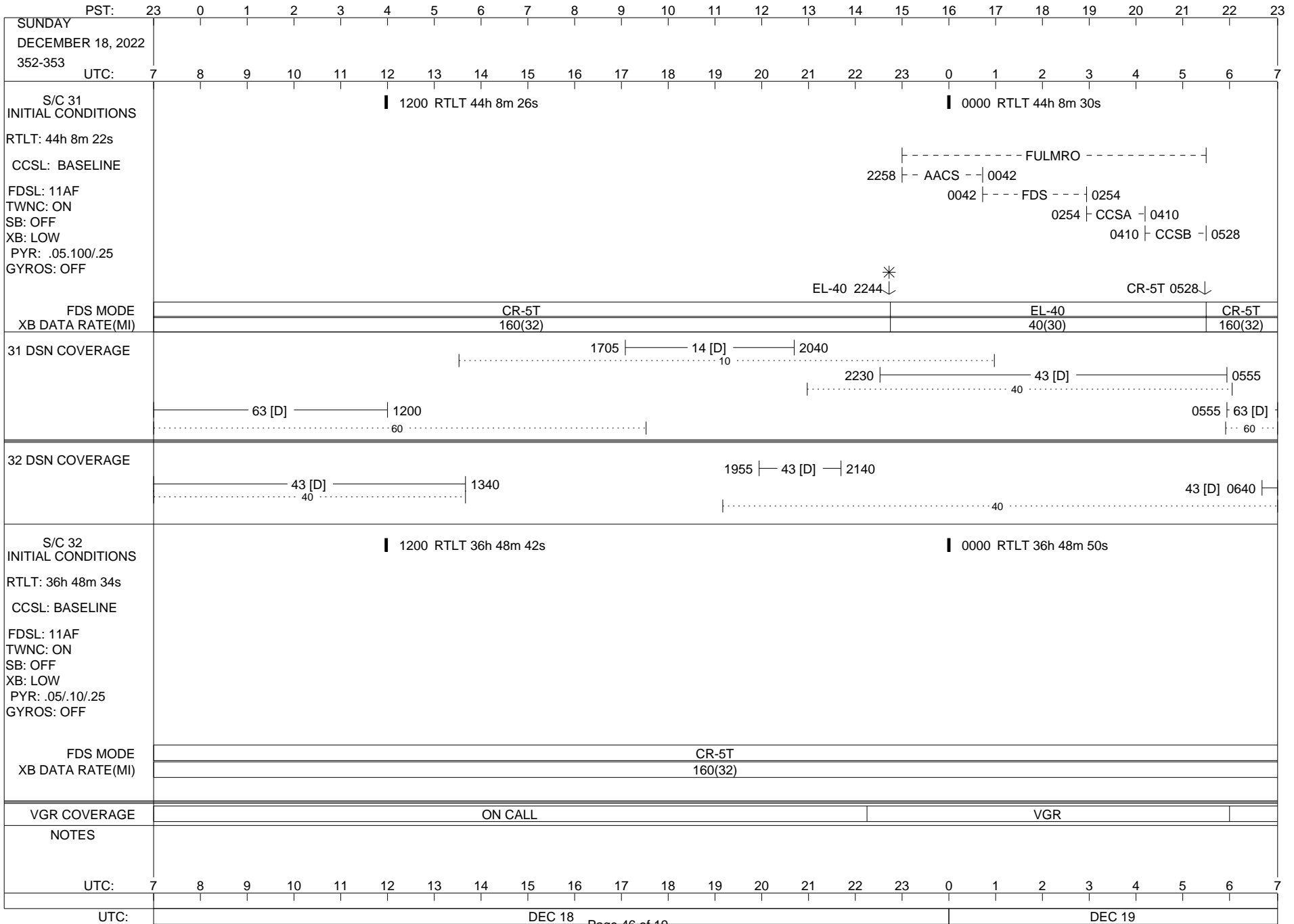
02/27/19

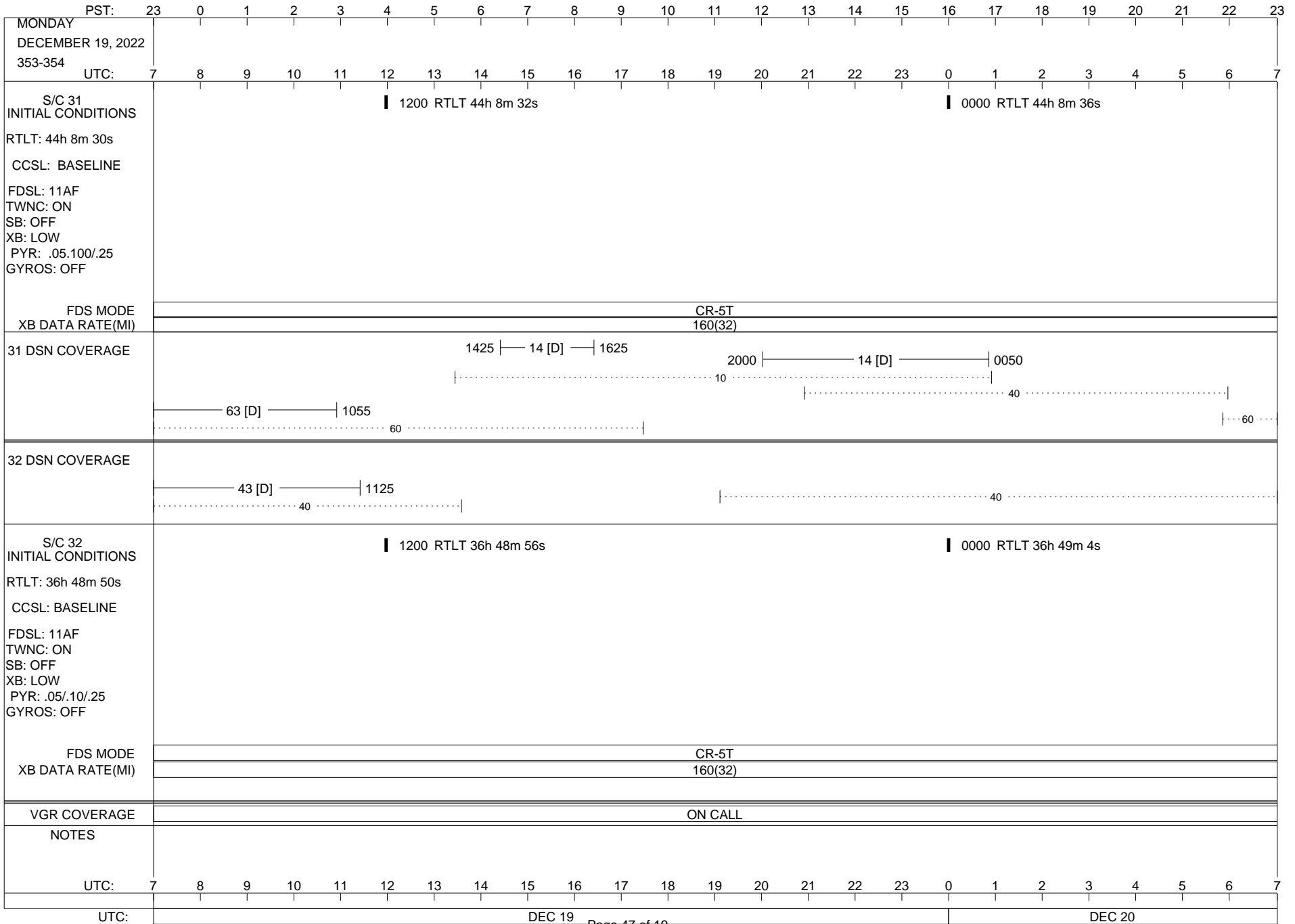
ISSUE DATE: 12/13/22 18:33

PST: 23		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
THURSDAY DECEMBER 15, 2022 349-350																										
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: 44h 7m 58s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/100/.25 GYROS: OFF		1200 RTLT 44h 8m 2s												0000 RTLT 44h 8m 6s												
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)												
31 DSN COVERAGE																										
32 DSN COVERAGE																										
S/C 32 INITIAL CONDITIONS RTLTL: 36h 47m 50s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/.25 GYROS: OFF		1200 RTLT 36h 47m 58s												0000 RTLT 36h 48m 6s												
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:		DEC 15												DEC 16												

PST: 23		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
FRIDAY DECEMBER 16, 2022 350-351																										
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: 44h 8m 6s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/100/.25 GYROS: OFF		1200 RTLTL 44h 8m 10s												0000 RTLTL 44h 8m 14s												
----- TLC (SHORT-FORM) -----																										
▼ 0235 FULMRO (22:44)																										
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)												
31 DSN COVERAGE		<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>63 [T]   1225</p> <p>60</p> </div> <div style="width: 10%; text-align: center;">10</div> <div style="width: 40%;"> <p>0210   43 [H]   0605</p> <p>40</p> <p>63 [D] 0620  </p> <p>60</p> </div> </div>																								
32 DSN COVERAGE		<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"></div> <div style="width: 10%; text-align: center;">1920</div> <div style="width: 40%;"> <p>43 [B]   0050</p> <p>40</p> <p>40</p> </div> </div>																								
S/C 32 INITIAL CONDITIONS RTLTL: 36h 48m 6s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/.25 GYROS: OFF		1200 RTLTL 36h 48m 14s												0000 RTLTL 36h 48m 20s												
▼ 2032 DUMMY (5 MIN BRACKETED 09:21)																										
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)												
VGR COVERAGE		ON CALL												VGR			ON CALL			VGR			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:		DEC 16												DEC 17												







ISSUE DATE: 12/13/22 18:33

PST: 23 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

TUESDAY  
DECEMBER 20, 2022  
354-355  
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: 44h 8m 36s  
CCSL: BASELINE  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05.100/.25  
GYROS: OFF

1200 RTLT 44h 8m 40s 0000 RTLT 44h 8m 44s

2310 | 2311 PWS/RH

↓ 2310 GS-4B 2311

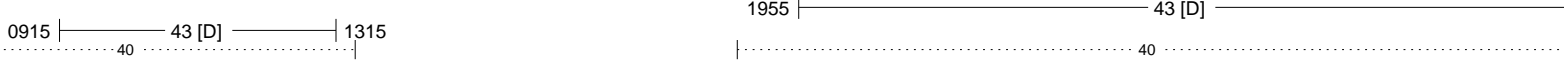
FDS MODE  
XB DATA RATE(MI)

CR-5T 160(32) CR-5T 160(32)

31 DSN COVERAGE



32 DSN COVERAGE



S/C 32  
INITIAL CONDITIONS  
RTLTL: 36h 49m 4s  
CCSL: BASELINE  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLT 36h 49m 10s 0000 RTLT 36h 49m 16s

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: DEC 20 Page 48 of 19 DEC 21

ISSUE DATE: 12/13/22 18:33

PST: 23 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

WEDNESDAY  
DECEMBER 21, 2022  
355-356 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: 44h 8m 44s  
CCSL: BASELINE  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/100/.25  
GYROS: OFF

1200 RTLT 44h 8m 46s

0000 RTLT 44h 8m 50s

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

31 DSN COVERAGE  
1410 |-----| 14 [D] |-----| 2355  
|-----| 10 |-----| 40 |-----|  
|-----| 60 |-----|  
0715 63 [D] |-----| 63 [T] 0610 |-----|  
|-----| 60 |-----|

32 DSN COVERAGE  
43 [D] |-----| 1055  
|-----| 40 |-----| 2200 |-----| 43 [D] |-----|  
|-----| 40 |-----|

S/C 32  
INITIAL CONDITIONS  
RTLT: 36h 49m 16s  
CCSL: BASELINE  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/10/.25  
GYROS: OFF

1200 RTLT 36h 49m 24s

0000 RTLT 36h 49m 30s

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: DEC 21 Page 49 of 19 DEC 22

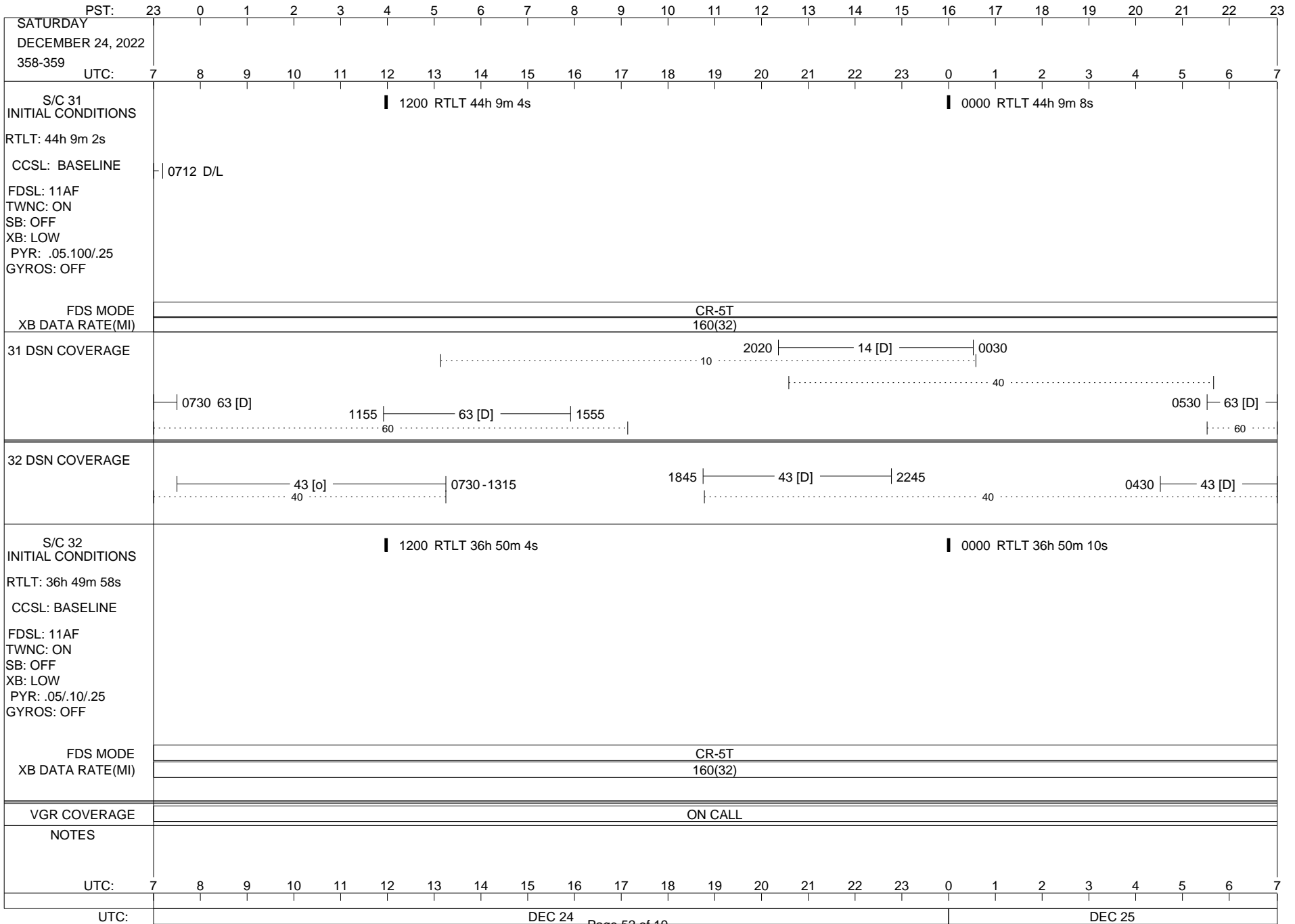


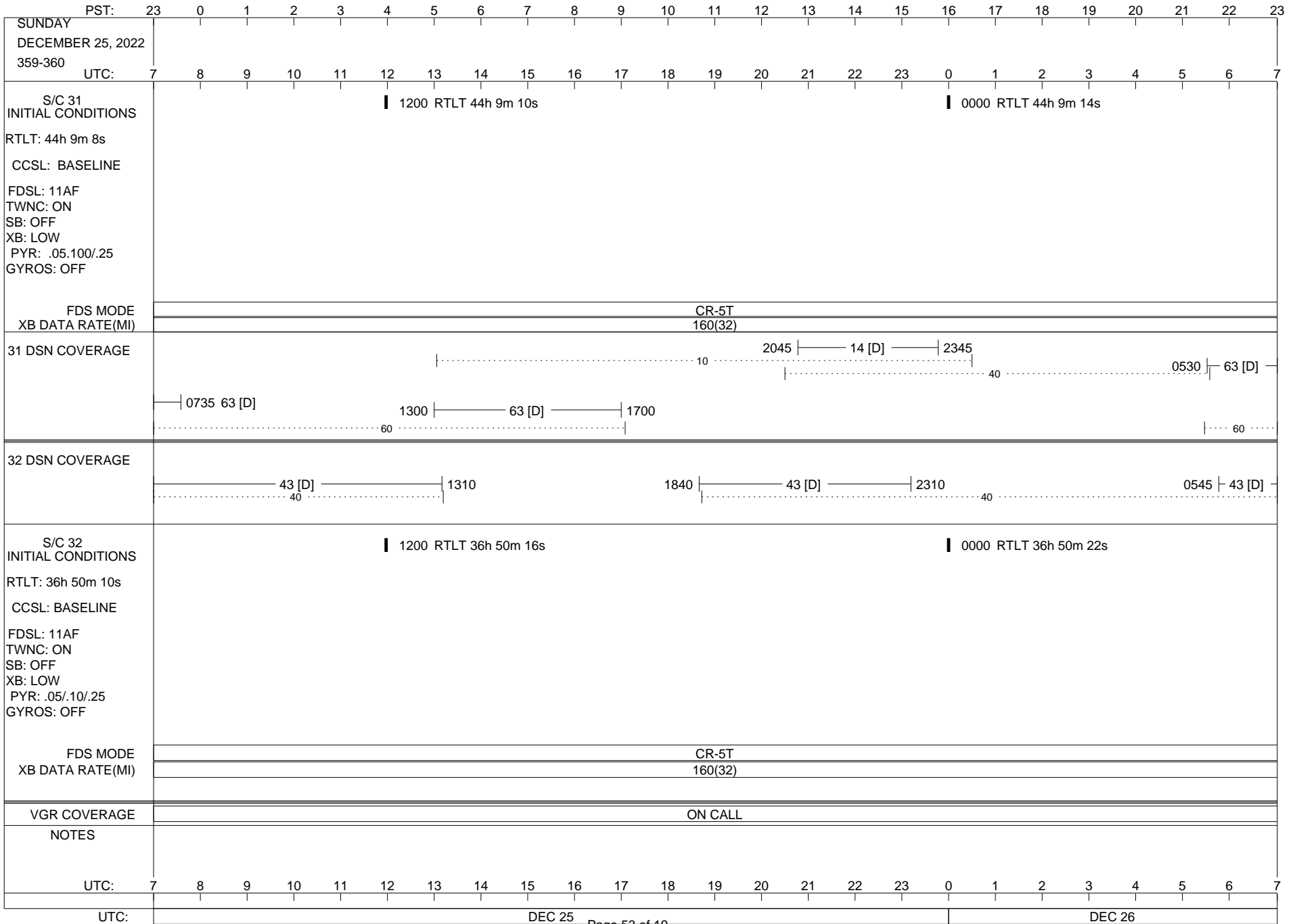
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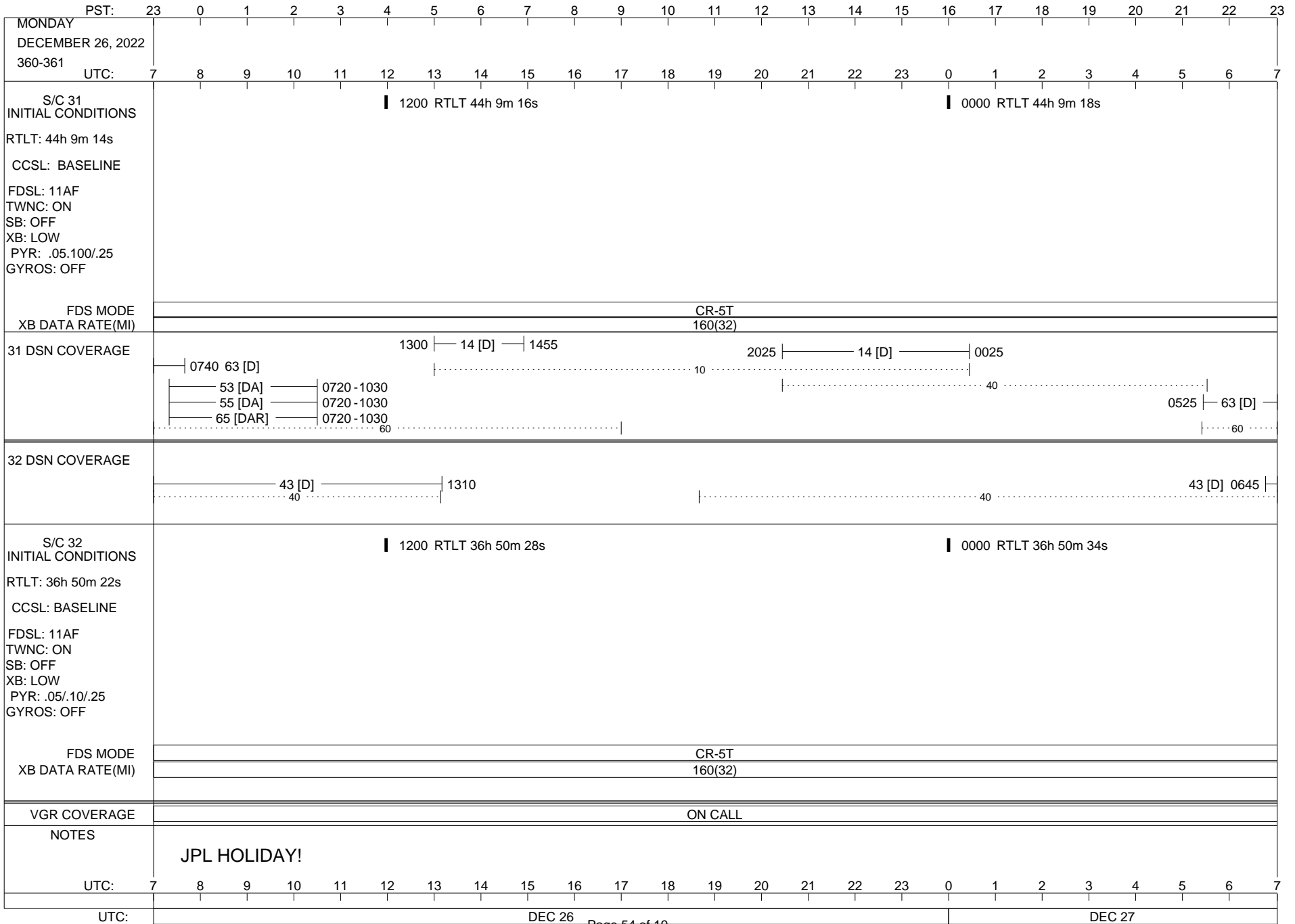
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THURSDAY DECEMBER 22, 2022 356-357	UTC: 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
S/C 31 INITIAL CONDITIONS RTLT: 44h 8m 50s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/100/.25 GYROS: OFF	1200 RTLT 44h 8m 52s											0000 RTLT 44h 8m 56s														
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)											CR-5T 160(32)														
31 DSN COVERAGE	63 [T] 1515											2355   43 [H]   0105 40														
32 DSN COVERAGE	43 [D] 1320 40											1855   43 [D]   2235 40														
S/C 32 INITIAL CONDITIONS RTLT: 36h 49m 30s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/.25 GYROS: OFF	1200 RTLT 36h 49m 38s											0000 RTLT 36h 49m 44s														
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)											CR-5T 160(32)														
VGR COVERAGE	ON CALL											VGR 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:	DEC 22											DEC 23														

ISSUE DATE: 12/13/22 18:33

		PST:	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
FRIDAY																											
DECEMBER 23, 2022																											
357-358		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								█	1200	RTLTL	44h	8m	58s							█	0000	RTLTL	44h	9m	2s		
RTLTL: 44h 8m 56s																											
CCSL: BASELINE		----- TLC (SHORT-FORM) -----																									
FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/100/.25 GYROS: OFF																											
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>63 [D]   0950</p> <p>..... 60 .....</p> </div> <div style="width: 10%; text-align: center;"> <p>1755  </p> <p>..... 10 .....</p> </div> <div style="width: 40%;"> <p>14 [D]   2250</p> <p>..... 40 .....</p> </div> </div>																									
32 DSN COVERAGE		<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>0750   43 [D]   1140</p> <p>..... 40 .....</p> </div> <div style="width: 40%; text-align: center;"> <p>1855   43 [B]   2305</p> <p>..... 40 .....</p> </div> </div>																									
S/C 32 INITIAL CONDITIONS								█	1200	RTLTL	36h	49m	50s							█	0000	RTLTL	36h	49m	58s		
RTLTL: 36h 49m 44s																											
CCSL: BASELINE																											
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																											
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:		DEC 23												DEC 24													

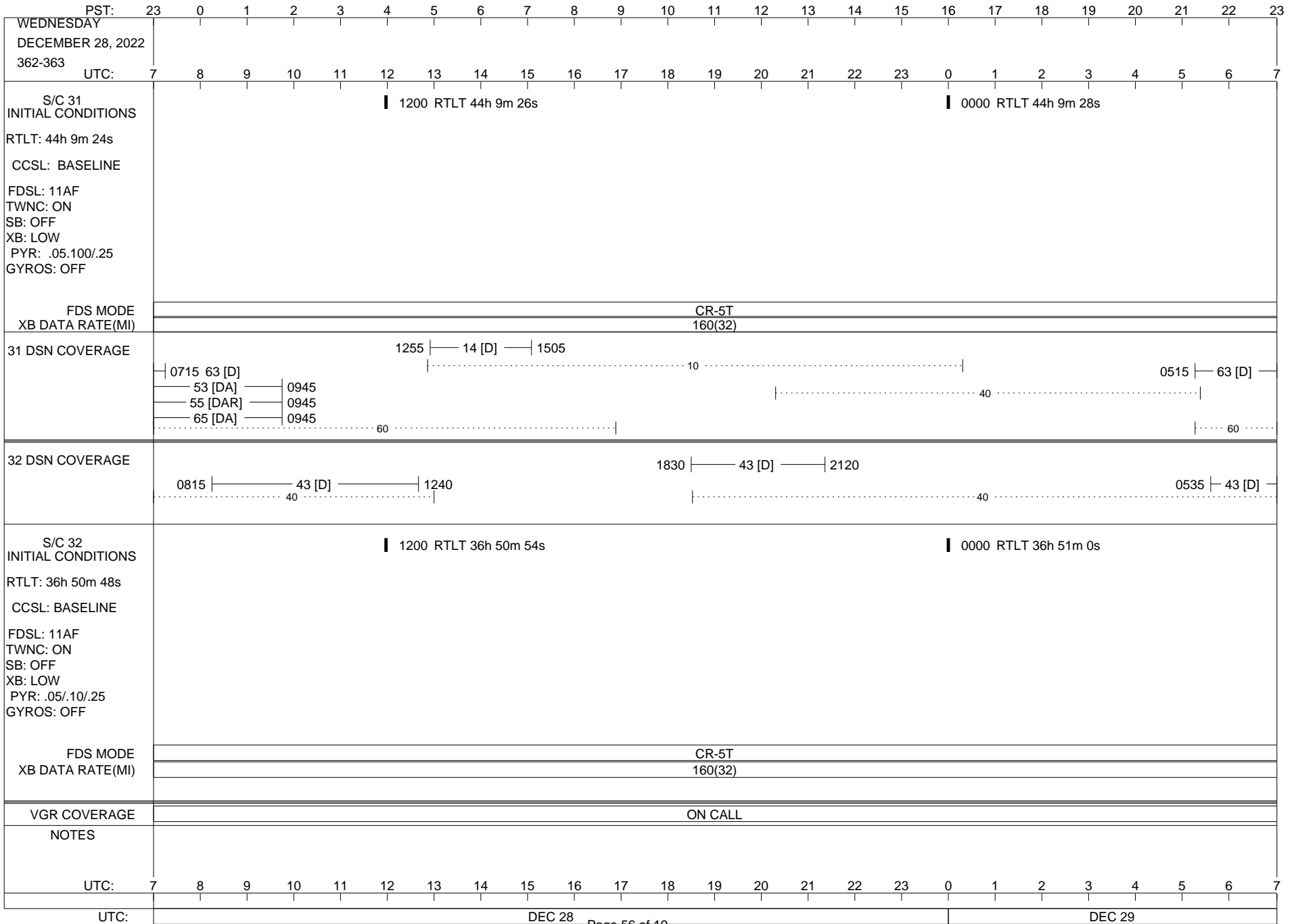




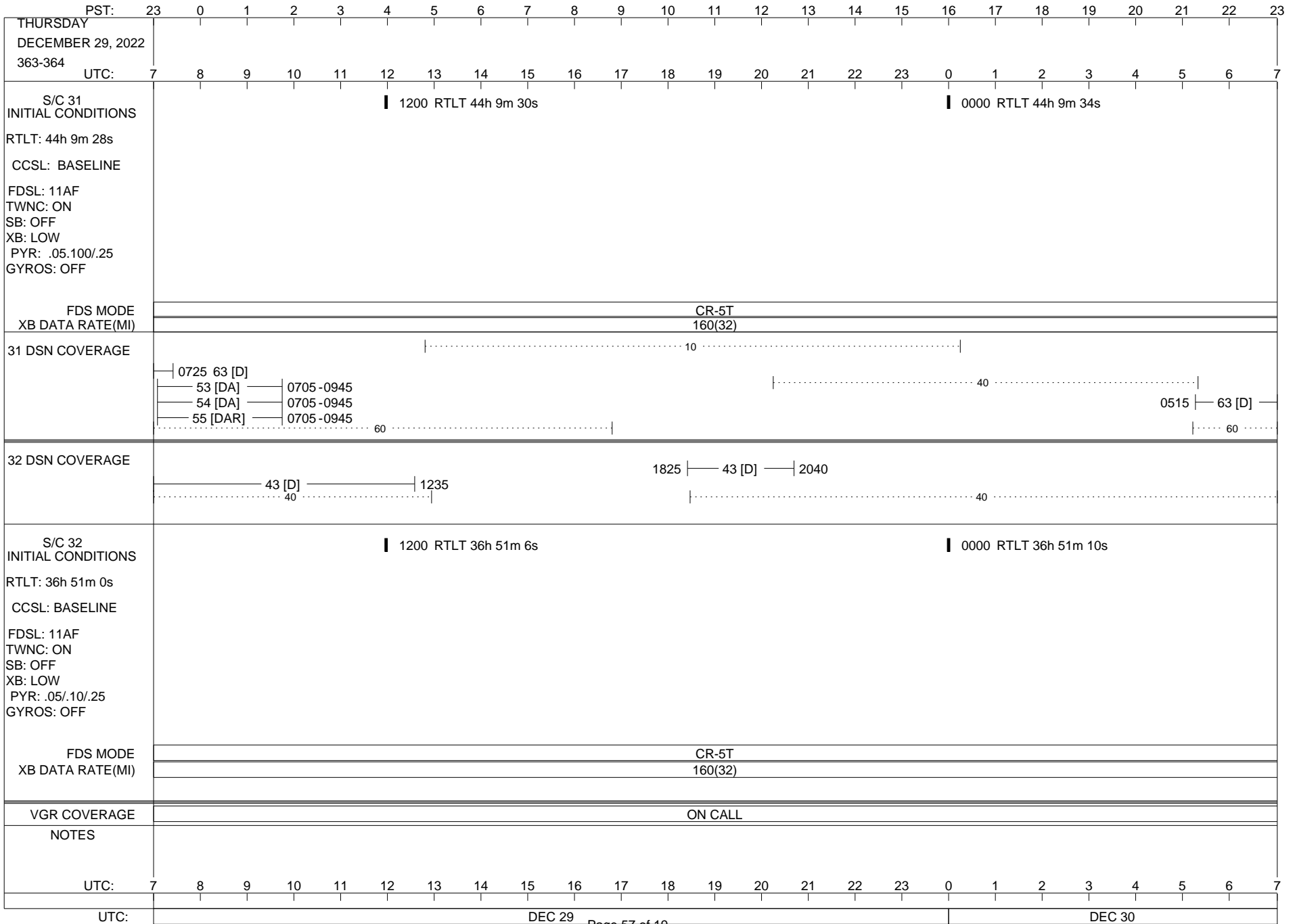




ISSUE DATE: 12/13/22 18:33



ISSUE DATE: 12/13/22 18:33

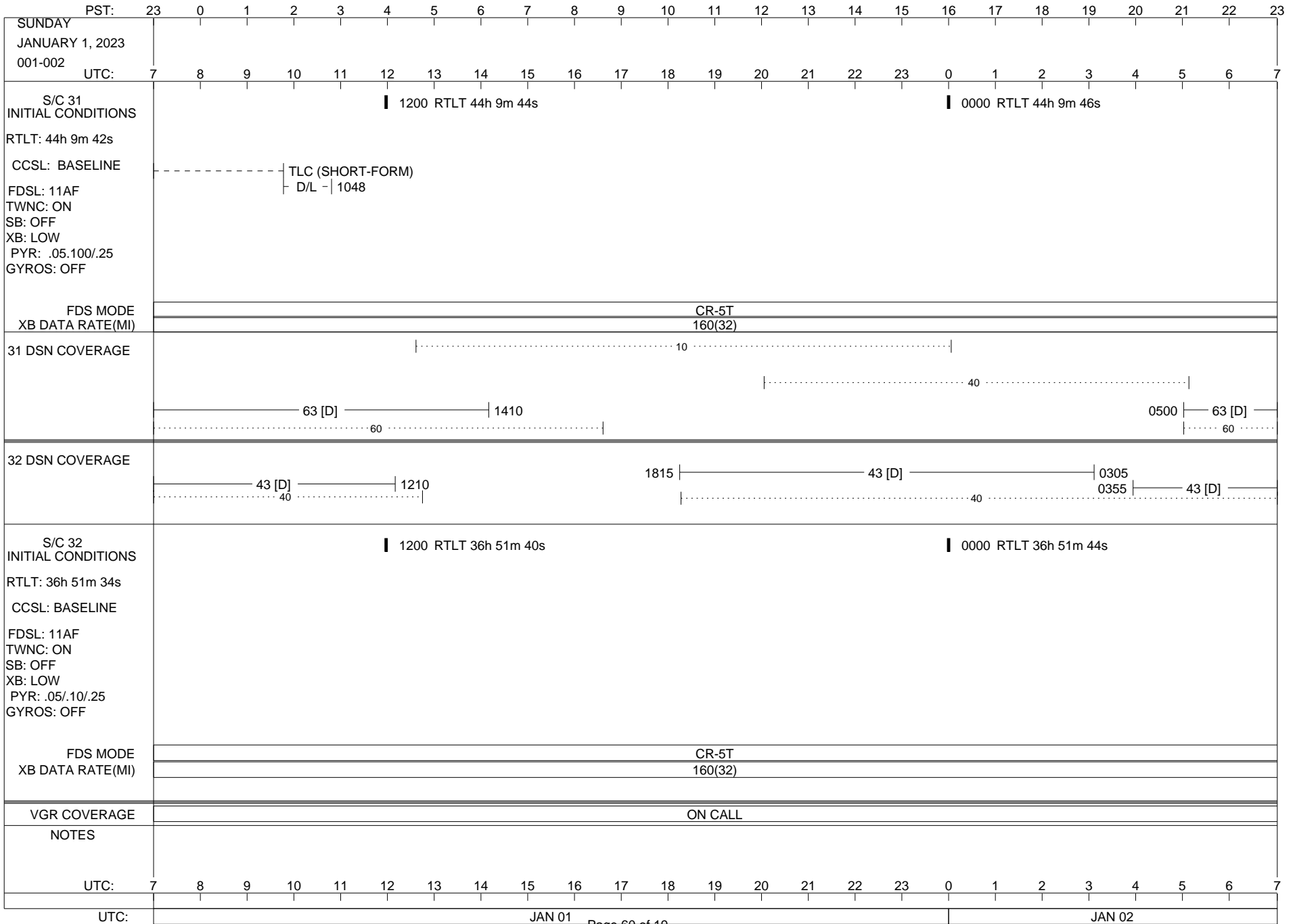


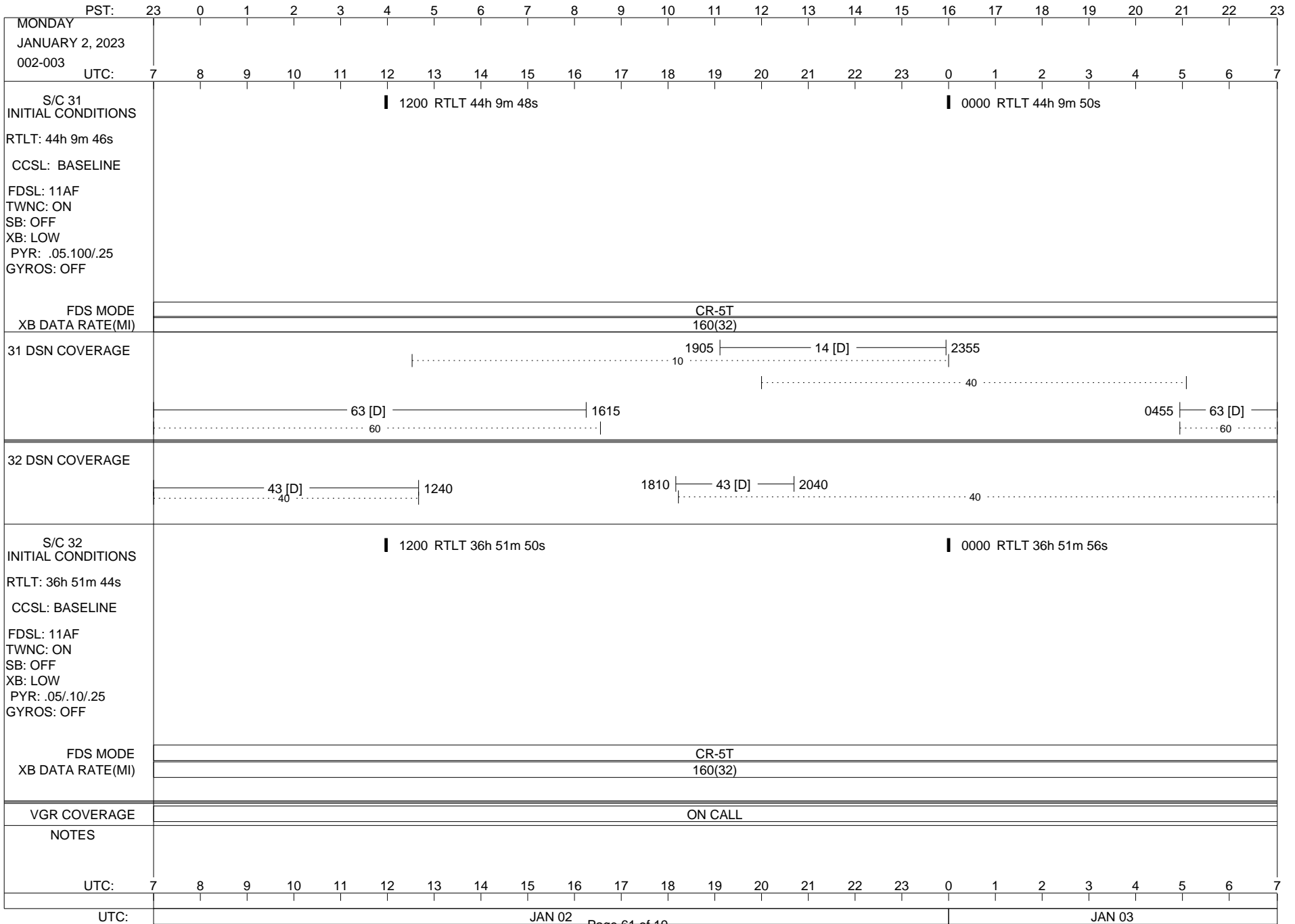


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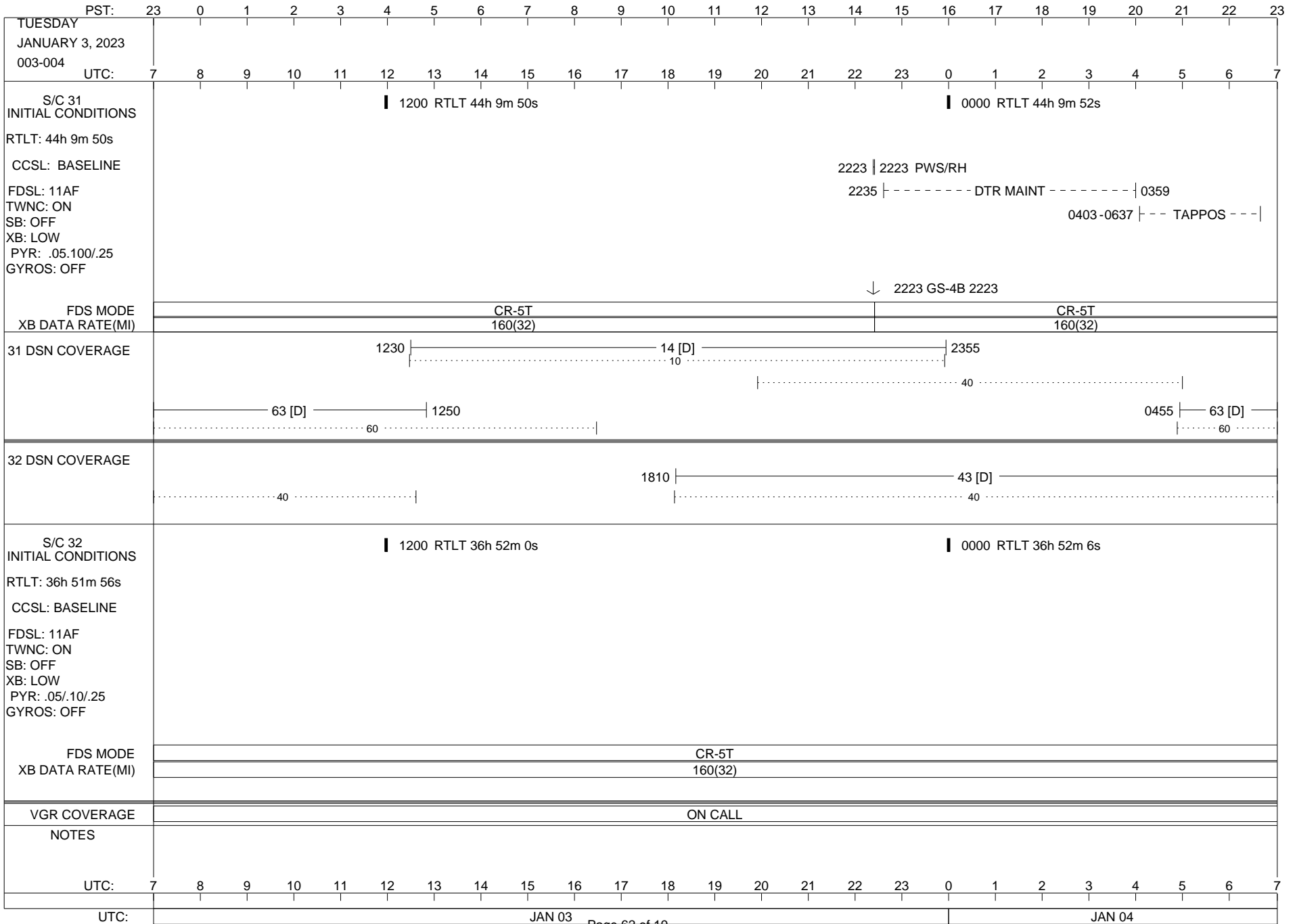
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FRIDAY DECEMBER 30, 2022 364-365		UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7		
S/C 31 INITIAL CONDITIONS RTLT: 44h 9m 34s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/100/.25 GYROS: OFF				1200 RTLT 44h 9m 36s												0000 RTLT 44h 9m 38s													
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)															
31 DSN COVERAGE				1245  ----- 14 [T] -----  1745  ----- 10 -----												0215  ----- 43 [D] -----  0515  ----- 40 -----													
		63 [D]   0800		----- 60 -----												0525  ----- 63 [D] -----   ----- 60 -----													
32 DSN COVERAGE				0750  ----- 43 [D] -----  1250												1825  ----- 43 [B] -----  0125  ----- 40 -----													
S/C 32 INITIAL CONDITIONS RTLT: 36h 51m 10s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/.25 GYROS: OFF				1200 RTLT 36h 51m 16s												0000 RTLT 36h 51m 22s													
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)															
VGR COVERAGE		ON CALL												VGR			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:	DEC 30															DEC 31											



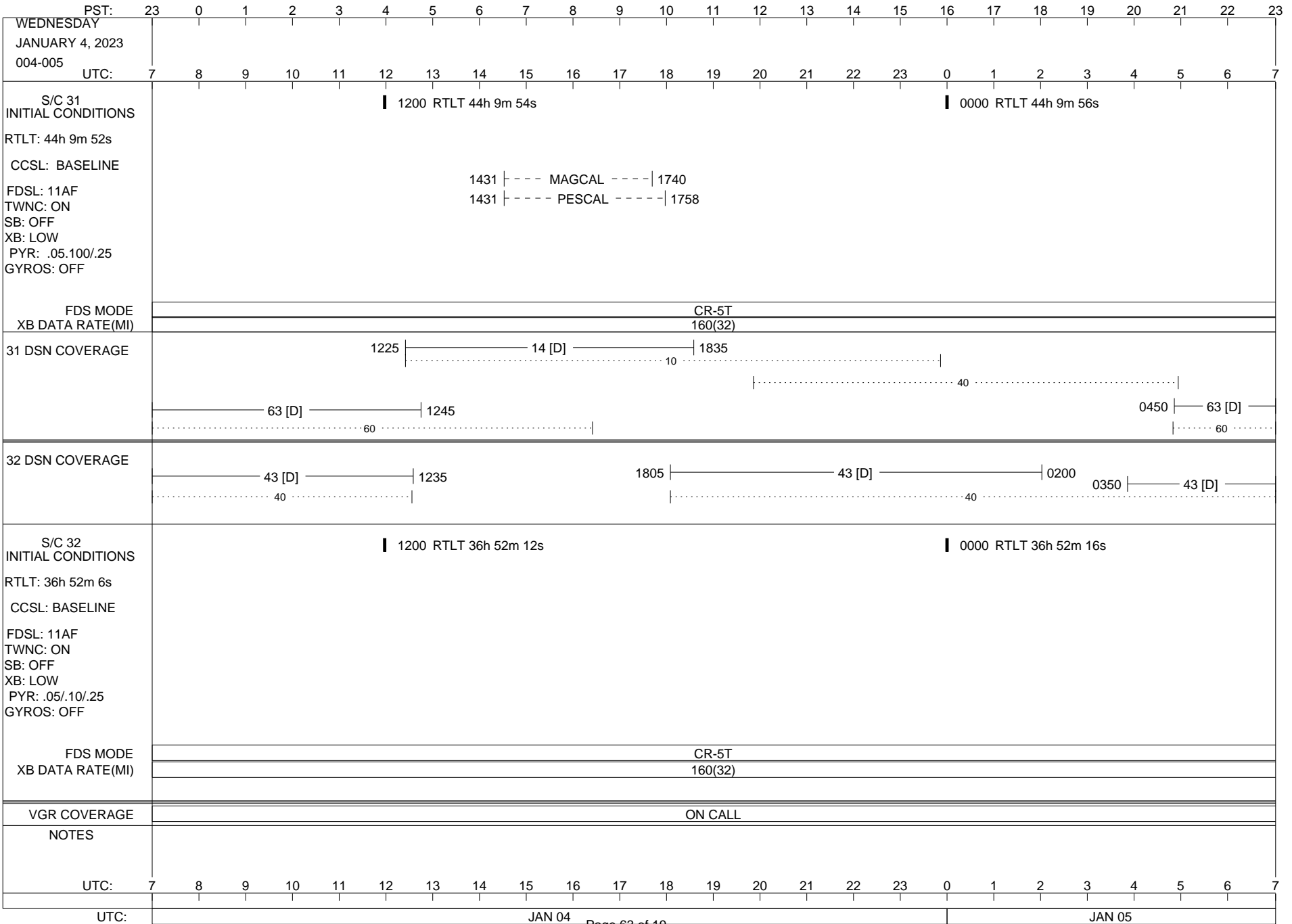




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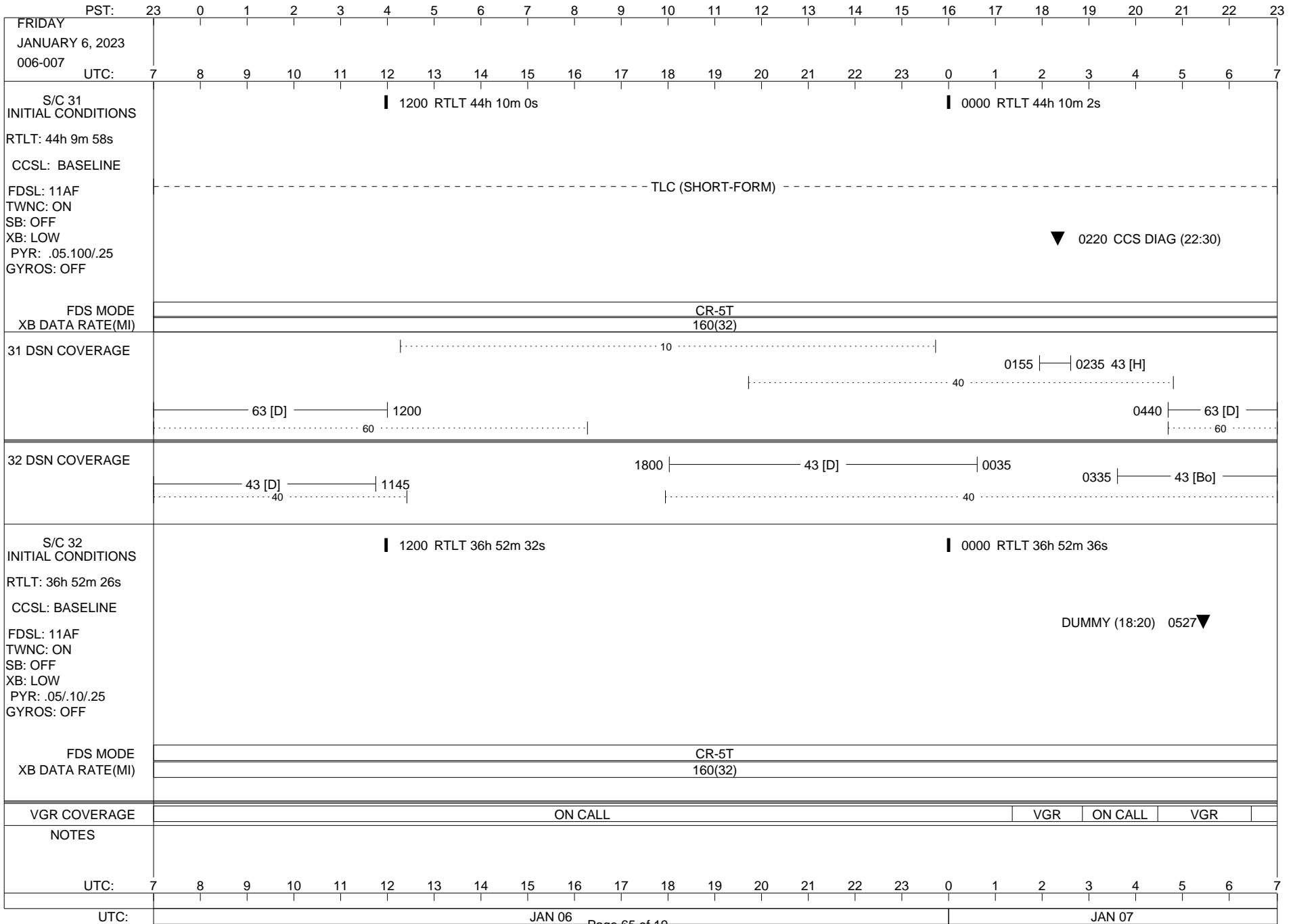


ISSUE DATE: 12/13/22 18:33



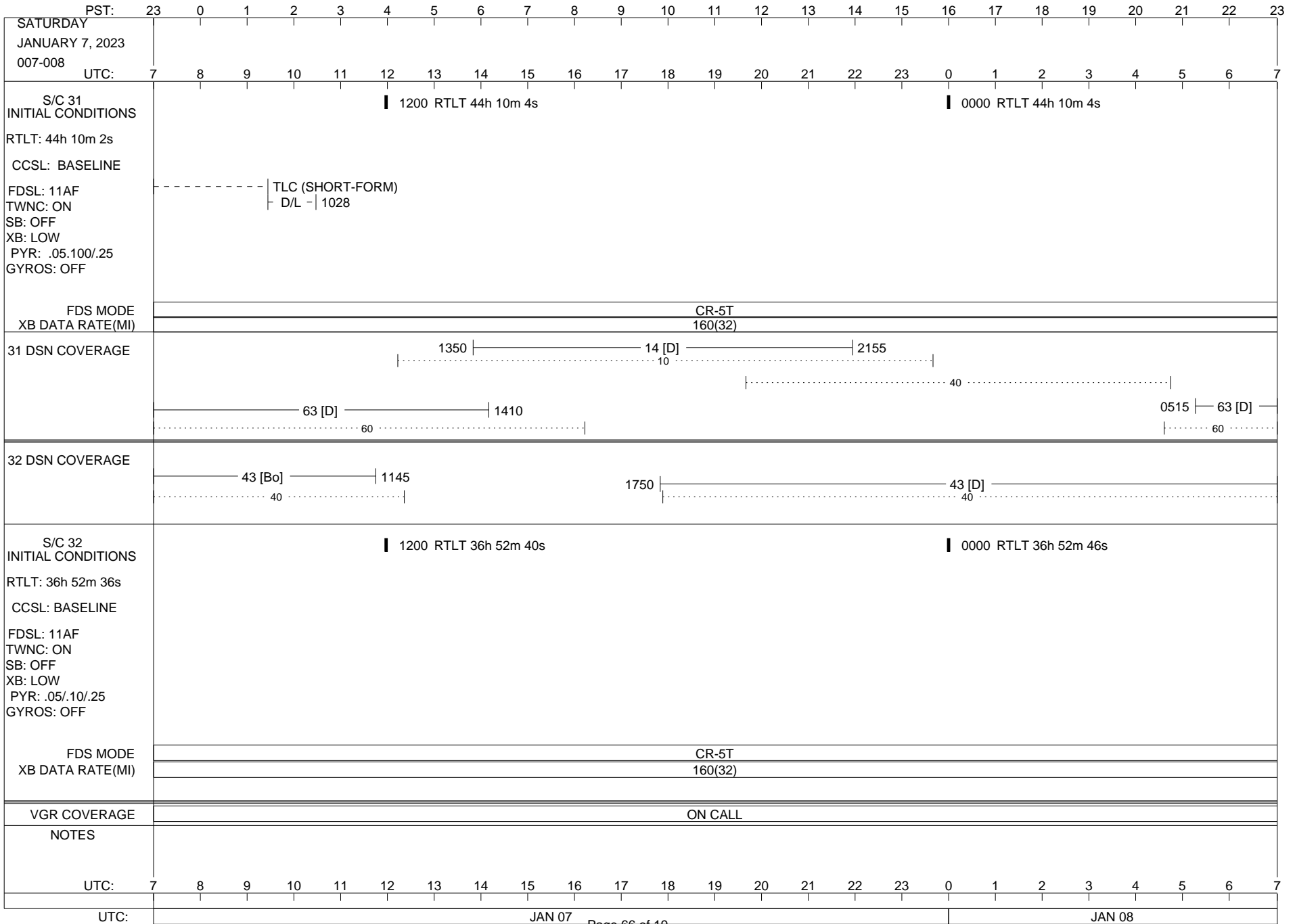


ISSUE DATE: 12/13/22 18:33





ISSUE DATE: 12/13/22 18:33



PST:	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SUNDAY JANUARY 8, 2023 008-009	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: 44h 10m 4s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/100/.25 GYROS: OFF	<p style="text-align: center;">█ 1200 RTLT 44h 10m 6s</p>																								
FDS MODE XB DATA RATE(MI)	<p style="text-align: center;">CR-5T 160(32)</p>																								
31 DSN COVERAGE	<p style="text-align: center;">1835  ----- 14 [D] -----  2335</p> <p style="text-align: center;">10  ----- 63 [D] -----  1600</p> <p style="text-align: center;">60  ----- </p>																								
32 DSN COVERAGE	<p style="text-align: center;">43 [D]  -----  1215</p> <p style="text-align: center;">40  ----- </p>																								
S/C 32 INITIAL CONDITIONS RTLT: 36h 52m 46s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/.25 GYROS: OFF	<p style="text-align: center;">█ 1200 RTLT 36h 52m 50s</p>																								
FDS MODE XB DATA RATE(MI)	<p style="text-align: center;">CR-5T 160(32)</p>																								
VGR COVERAGE	<p style="text-align: center;">ON CALL</p>																								
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:	JAN 08													JAN 09											