

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: December 22, 2021

For the Period: 12/23/21 to 01/17/22 (21/357 – 22/017)



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

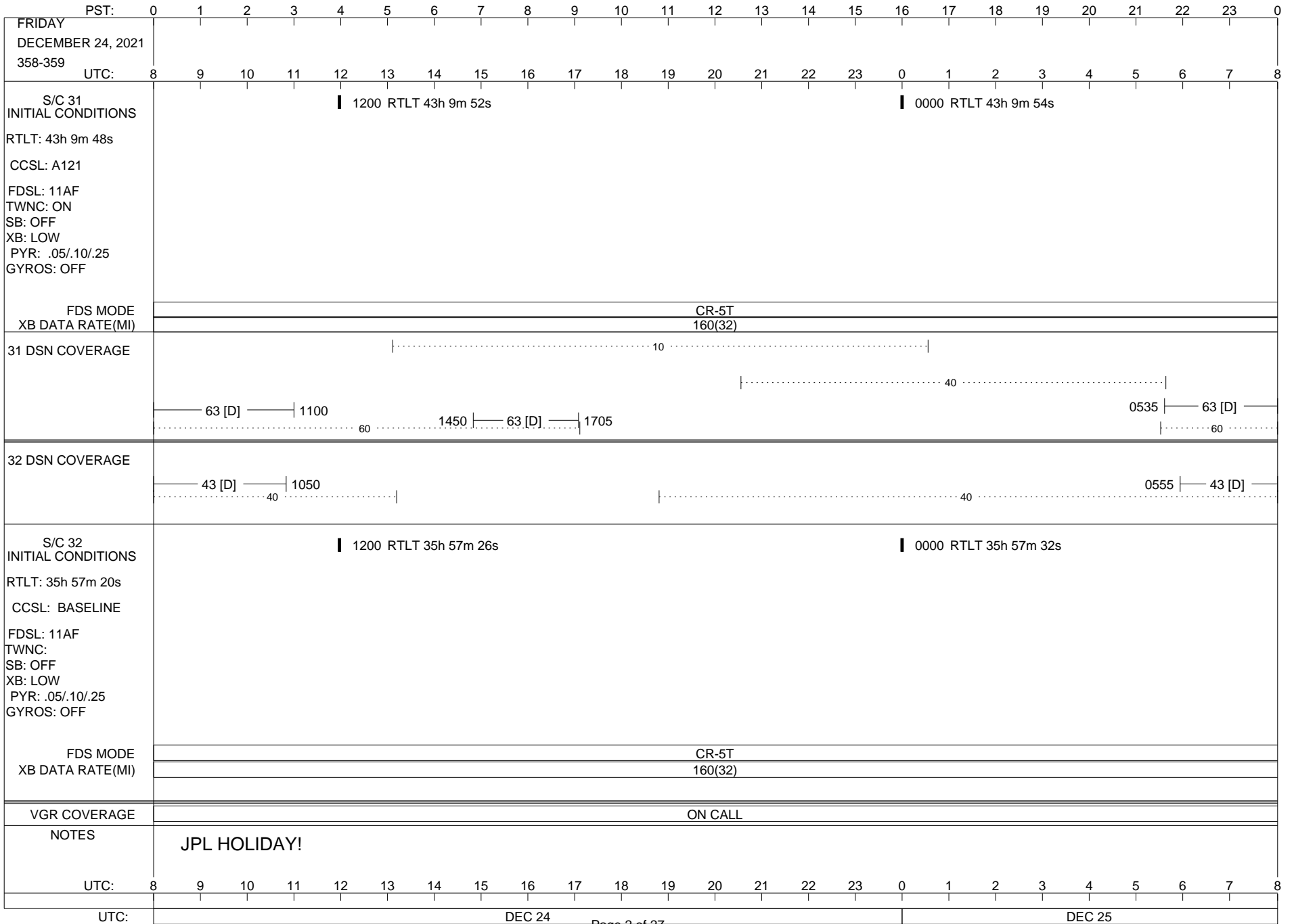
**LEGEND:**

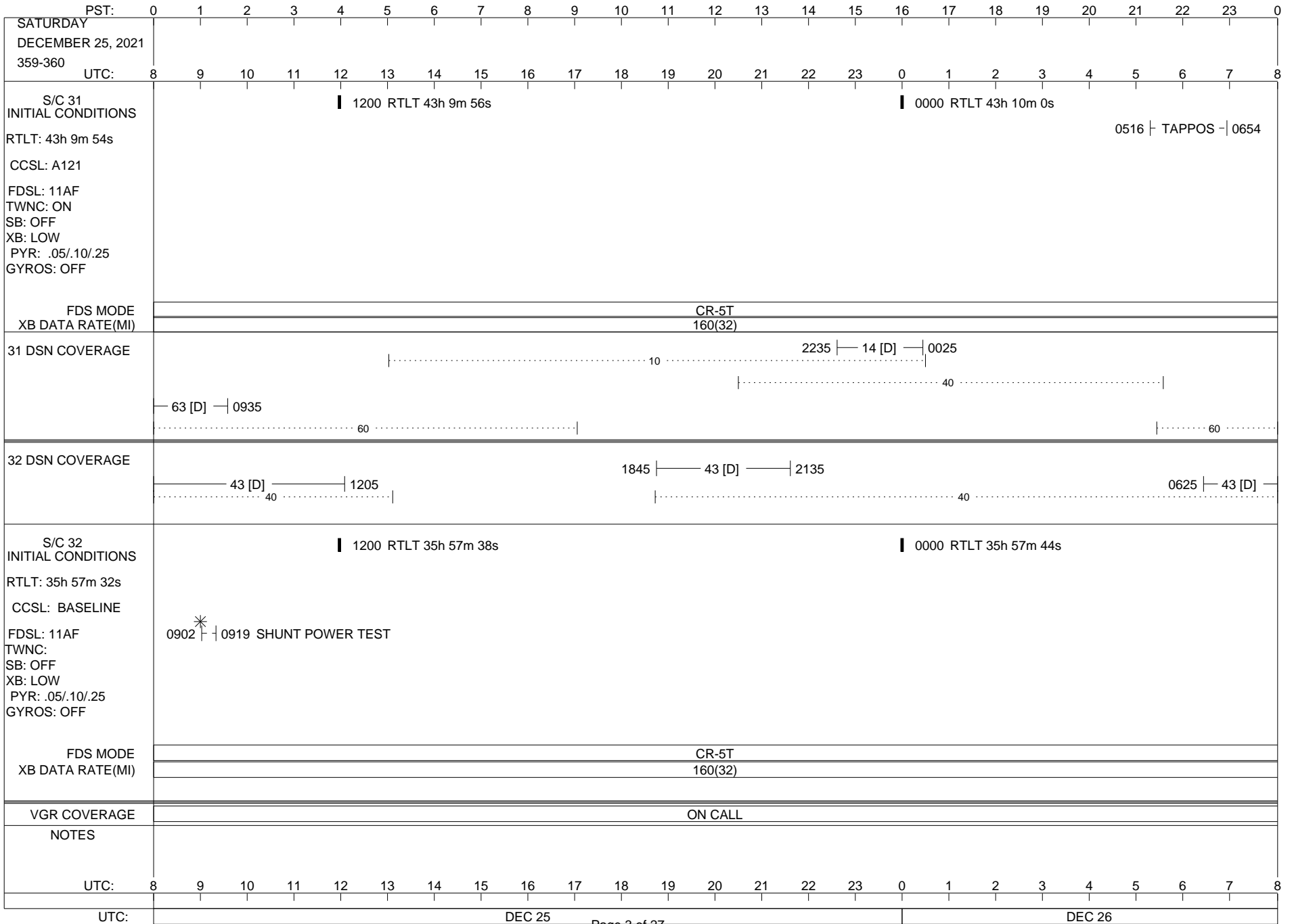
- ▽ = R/T Command (Last chance or Contingency)
- ▼ = R/T Command (Scheduled)
- \* = Result of R/T Command
- n = (where n = 1,2,3 ..) Special Note, see bottom of page
- A = Arrayed station
- B = BLF
- D = Downlink only pass
- H = High Power Transmitter
- R = Array Reference Antenna
- T = TLC Uplink
-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

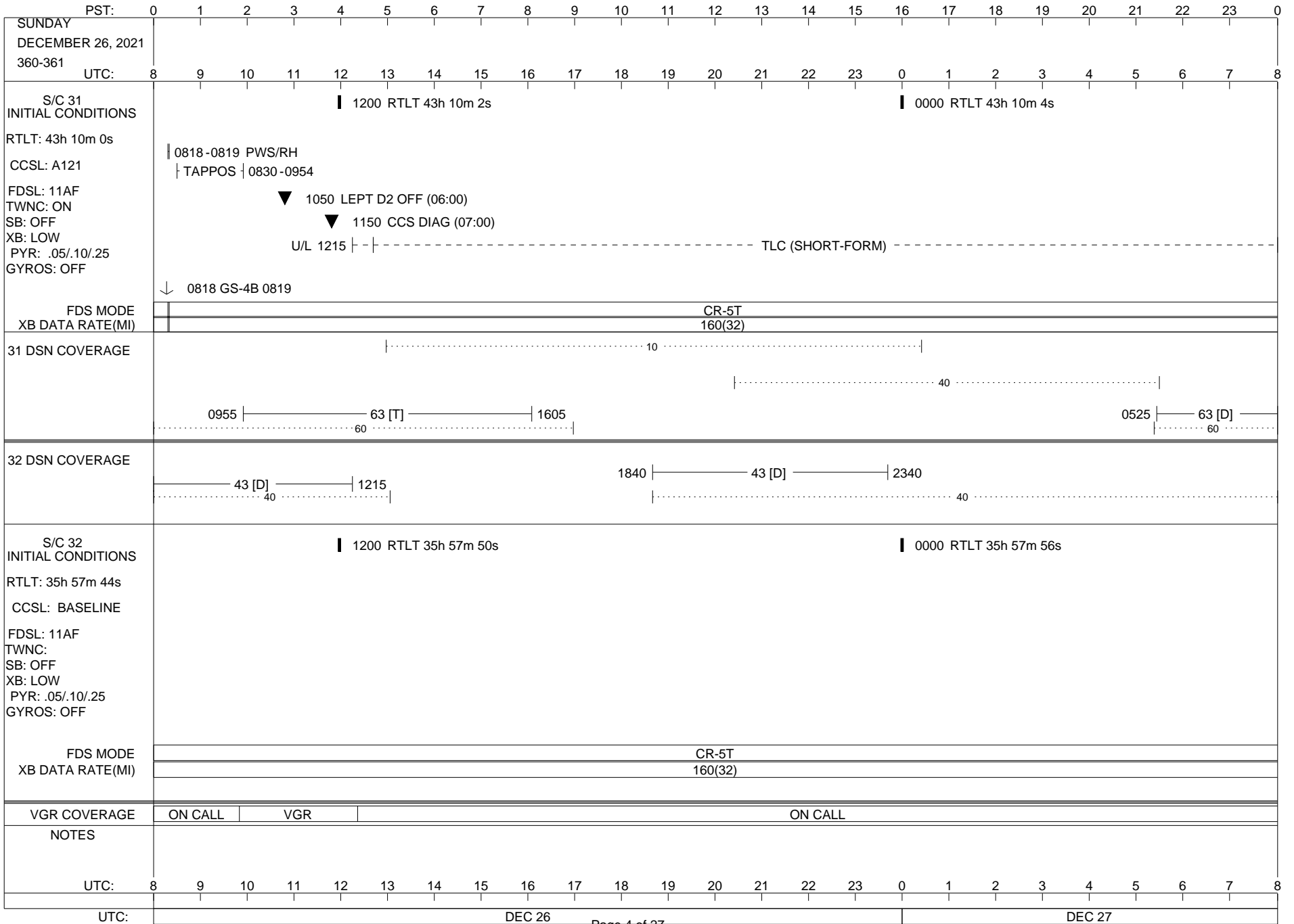
02/27/19

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 23, 2021 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: 43h 9m 42s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 43h 9m 46s												0000 RTLTL 43h 9m 48s															
FDS MODE	CR-5T												CR-5T															
XB DATA RATE(MI)	160(32)												160(32)															
31 DSN COVERAGE	1310  -----  14 [D]  -----  1545												0030  -----  43 [D]  -----  0540															
	60  -----												40  -----  63 [D]  -----  0535  -----  60  -----															
32 DSN COVERAGE	0915  -----  43 [D]  -----  1315				1850  -----  43 [HB1]  -----  2340				0625  -----  43 [D]  -----																			
S/C 32 INITIAL CONDITIONS RTLTL: 35h 57m 6s CCSL: BASELINE FDSL: 11AF TWNC: SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 35h 57m 12s												0000 RTLTL 35h 57m 20s															
FDS MODE	CR-5T												CR-5T															
XB DATA RATE(MI)	160(32)												160(32)															
VGR COVERAGE	ON CALL												VGR				ON CALL											
NOTES	[1] DSS-43 HP TXR DRV ON >= 20:20 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 23														DEC 24													

ISSUE DATE: 01/05/22 09:53



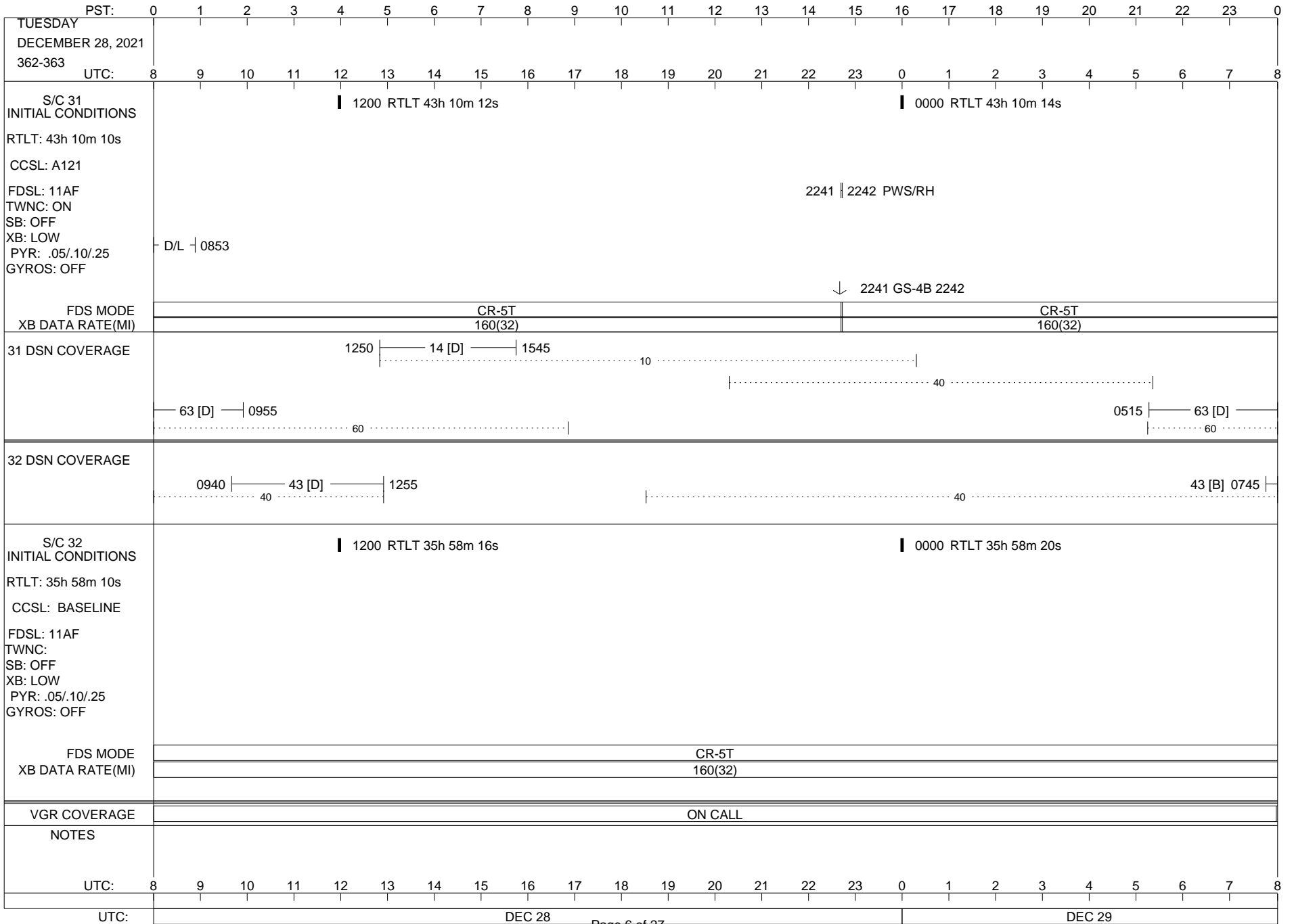




PST:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0
MONDAY DECEMBER 27, 2021 361-362	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLTL: 43h 10m 4s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 43h 10m 8s												0000 RTLTL 43h 10m 10s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	63 [D]   1105												0535   63 [D]												
32 DSN COVERAGE	0900   43 [D]   1300												1840   43 [o]   0220												
S/C 32 INITIAL CONDITIONS RTLTL: 35h 57m 56s CCSL: BASELINE FDSL: 11AF TWNC: SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 35h 58m 2s												0000 RTLTL 35h 58m 10s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
VGR COVERAGE	ON CALL																				VGR	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 27												DEC 28												

D/L

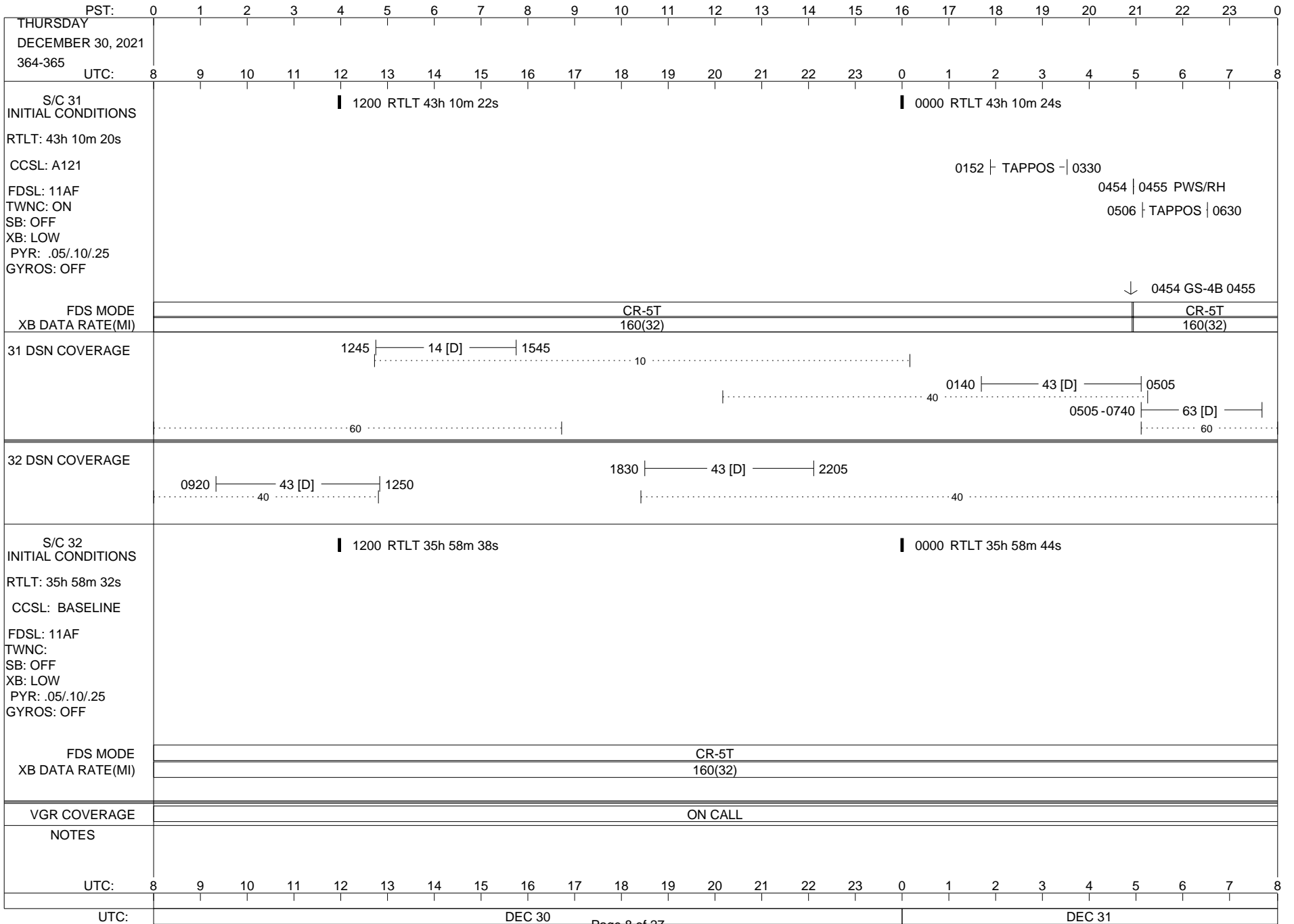
\*  
LEPT D2 OFF 0601↓

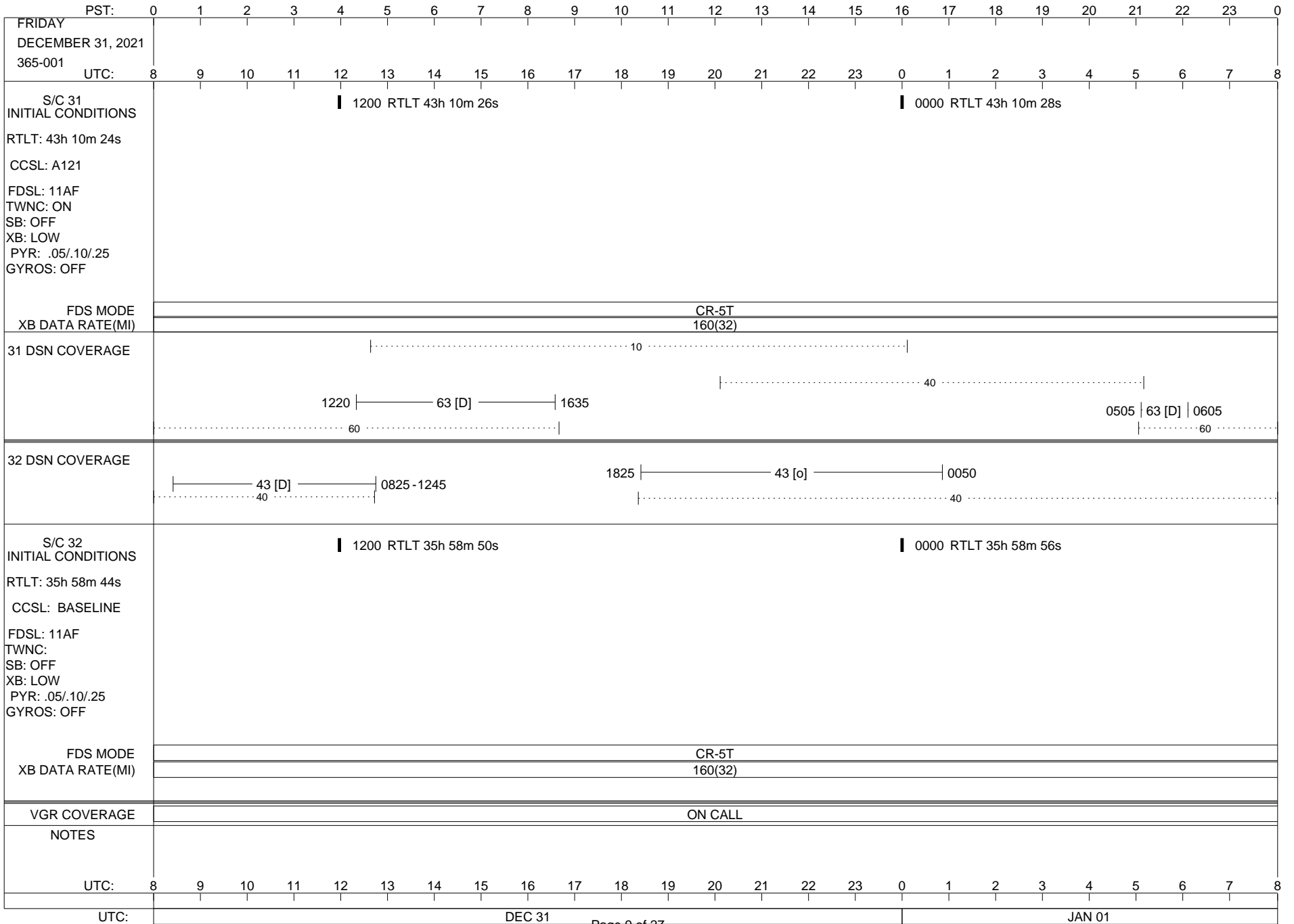


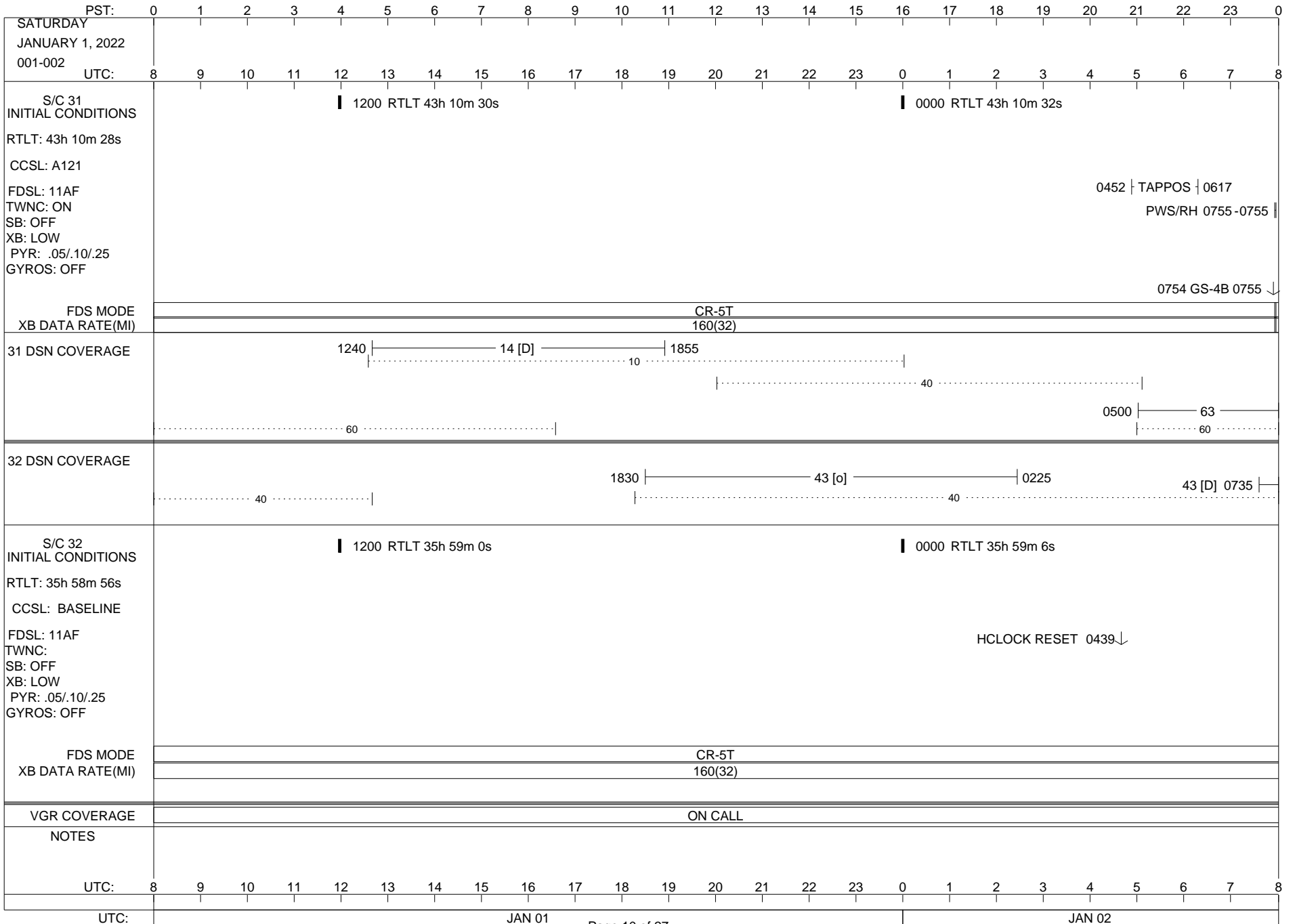
ISSUE DATE: 01/05/22 09:53

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 DECEMBER 29, 2021 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: 43h 10m 14s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 43h 10m 16s 0000 RTLT 43h 10m 20s
FDS MODE	CR-5T
XB DATA RATE(MI)	160(32)
31 DSN COVERAGE	..... 10 ..... ..... 40 ..... 63 [D]   1225 ..... 60 ..... 0510-0715   63 [D]   ..... 60 .....
32 DSN COVERAGE	43 [B]   1250 ..... 40 ..... ..... 40 .....
S/C 32 INITIAL CONDITIONS RTLT: 35h 58m 20s CCSL: BASELINE FDSL: 11AF TWNC: SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 58m 26s 0000 RTLT 35h 58m 32s ▼ 0857 DUMMY (5 MIN BRACKETED 20:56)
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 29 Page 7 of 27 DEC 30	

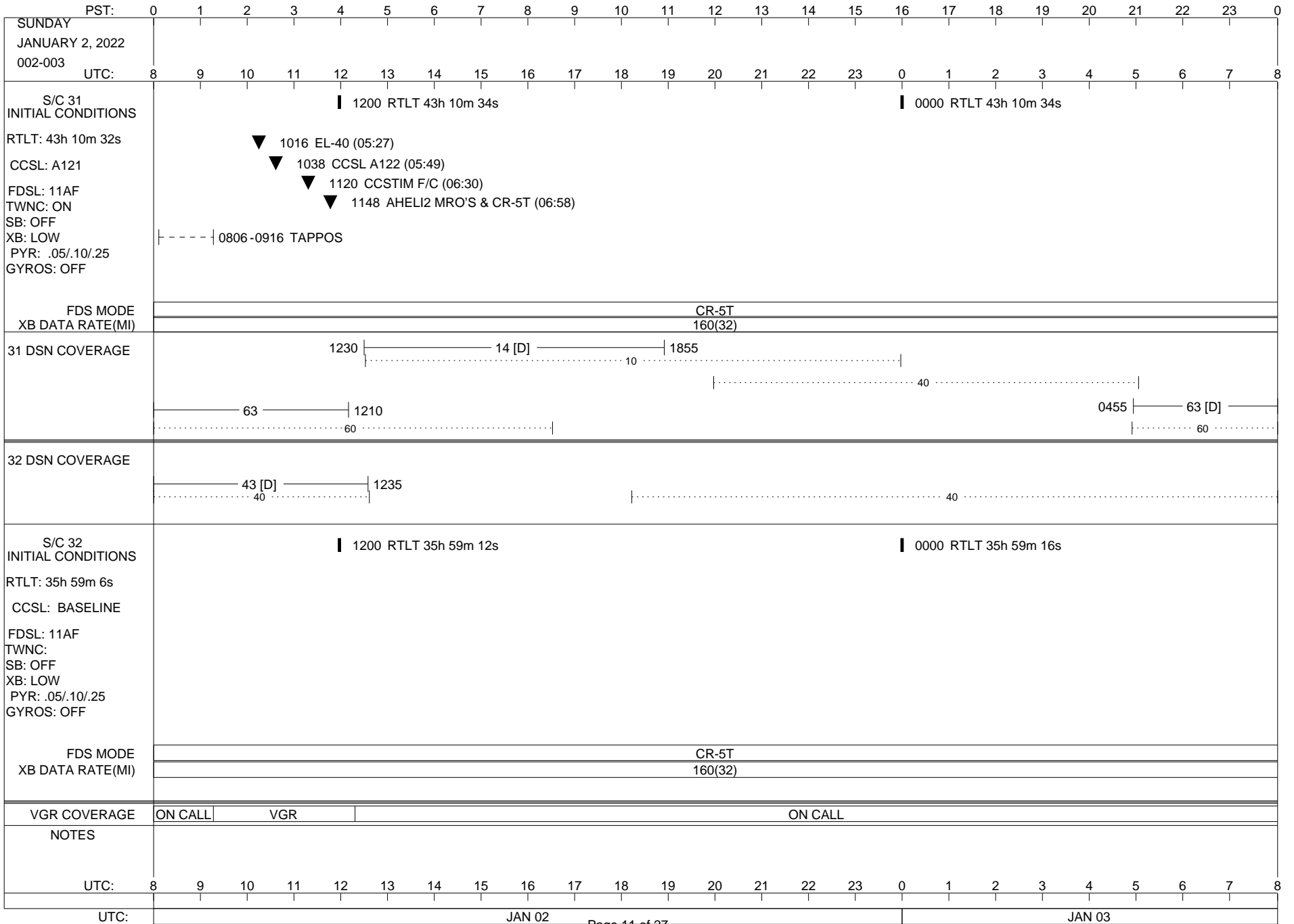






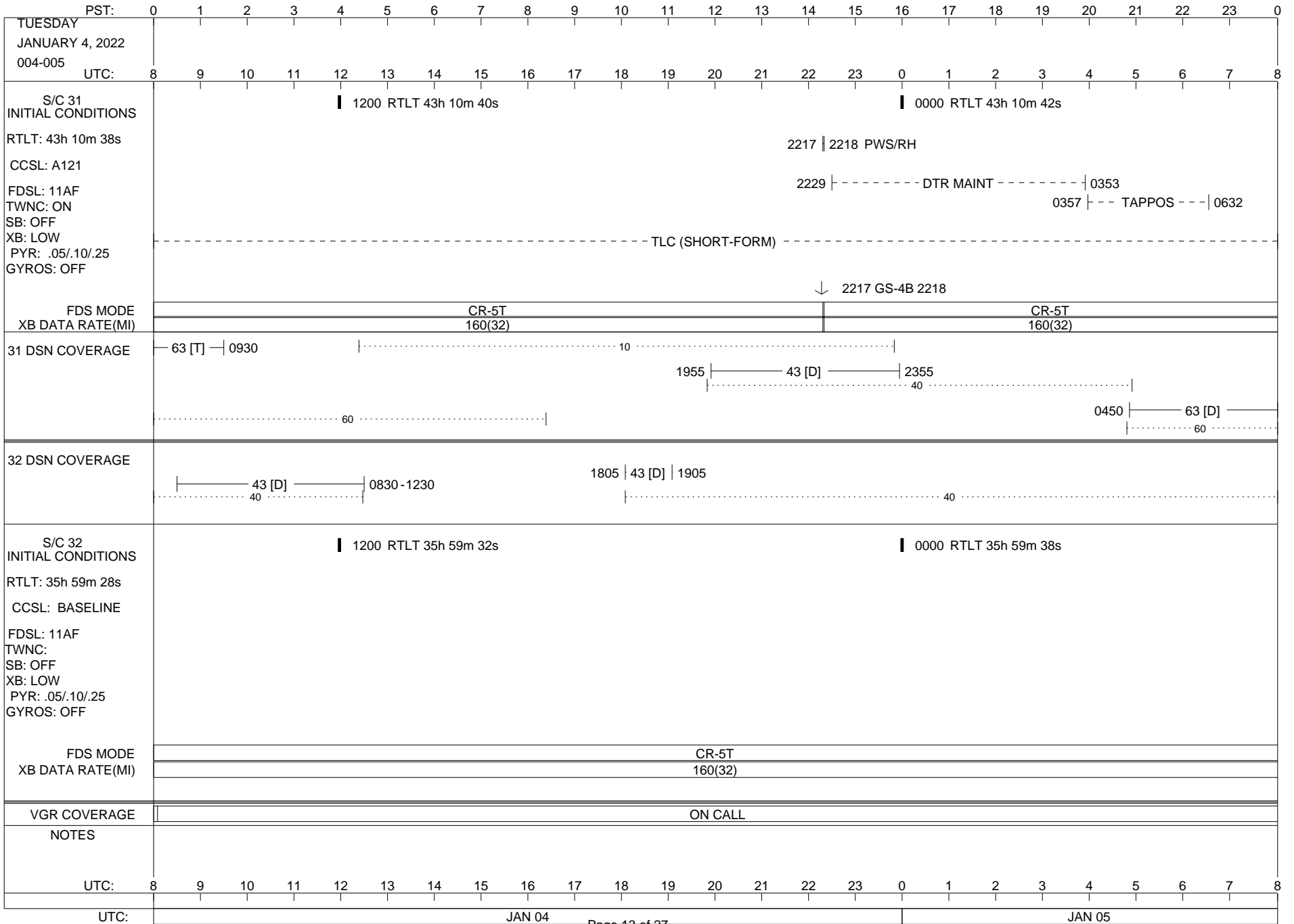


ISSUE DATE: 01/05/22 09:53



ISSUE DATE: 01/05/22 09:53

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 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												0455  -----  63 [T]												
	-----  0855 63 [D]												-----  60												
32 DSN COVERAGE	-----  43 [D]  -----  0830-1230												-----  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												



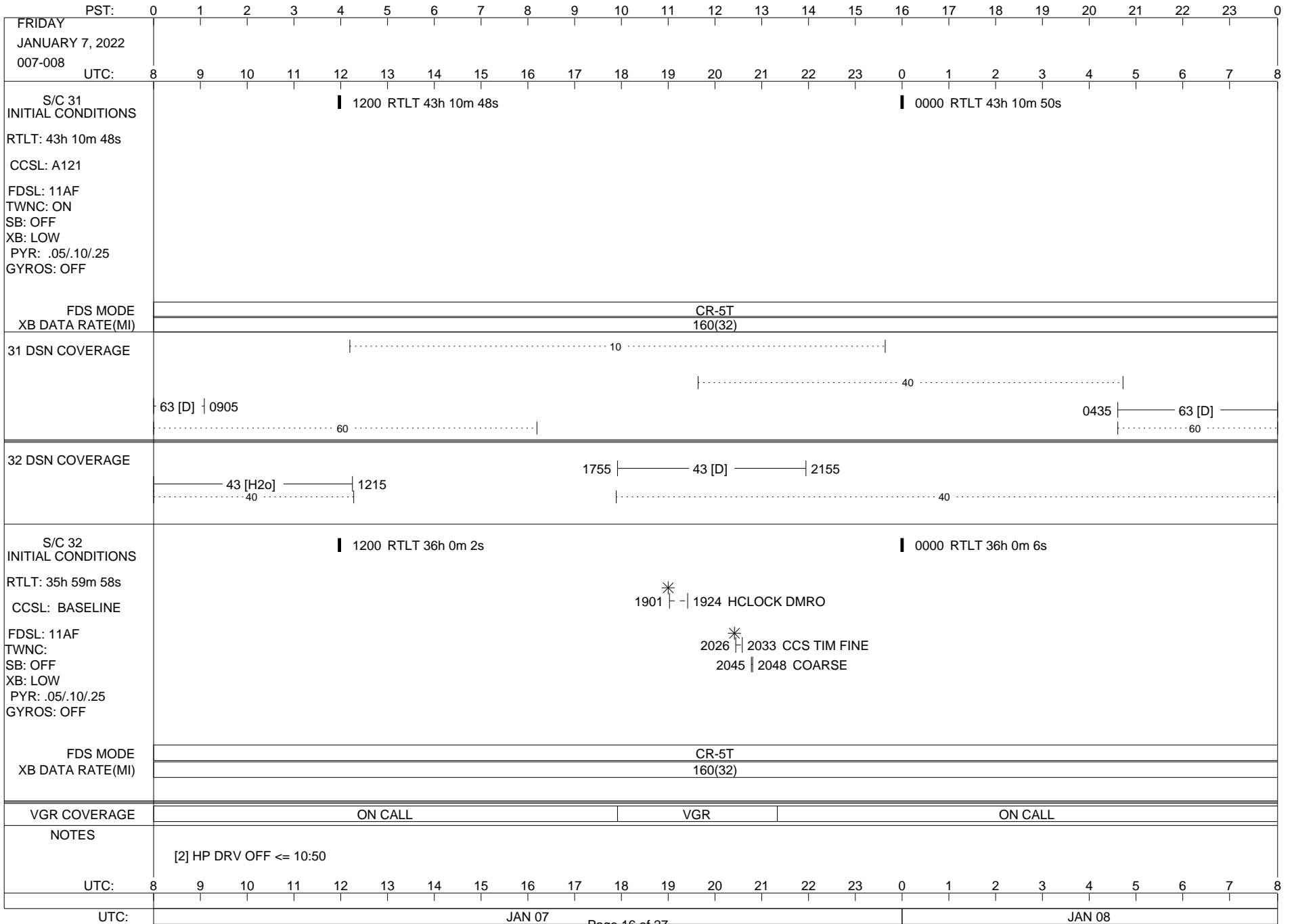


ISSUE DATE: 01/05/22 09:53

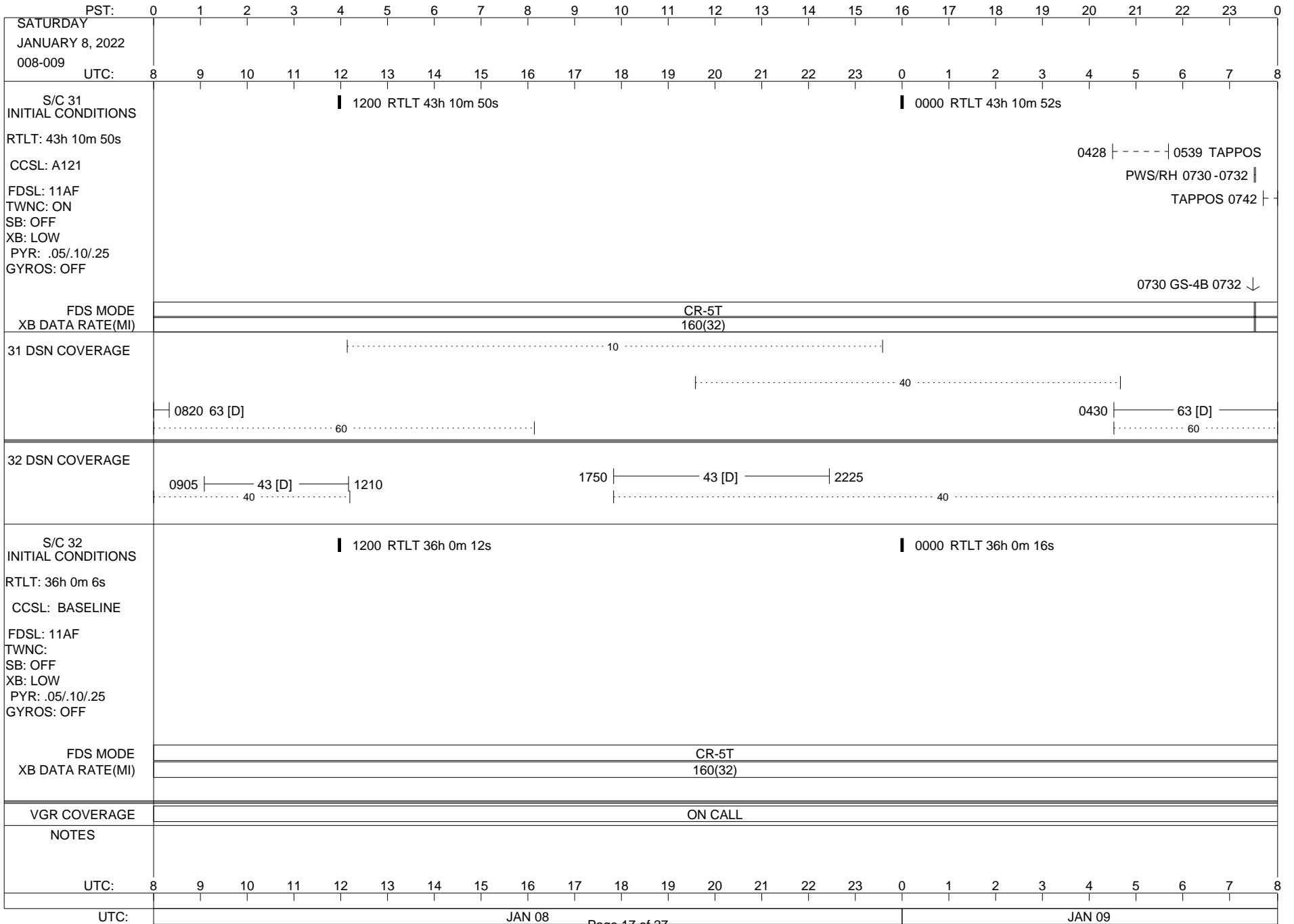
PST:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0
THURSDAY JANUARY 6, 2022 006-007																									
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLT: 43h 10m 44s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 43h 10m 46s												█ 0000 RTLT 43h 10m 48s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	<p>..... .....10..... .....</p> <p>..... .....40..... .....</p> <p>.....60..... .....</p> <p>0440  ----- 63 [D] -----</p> <p>.....60..... .....</p>																								
32 DSN COVERAGE	<p>----- 43 [H1] -----   1215</p> <p>1800   43 [D]   1900</p> <p>.....40..... .....</p> <p>.....40..... .....</p> <p>43 [H2o] 0650  -----</p>																								
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	VGR												ON CALL												
NOTES	[1] HP DRV OFF <= 10:55																								
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												

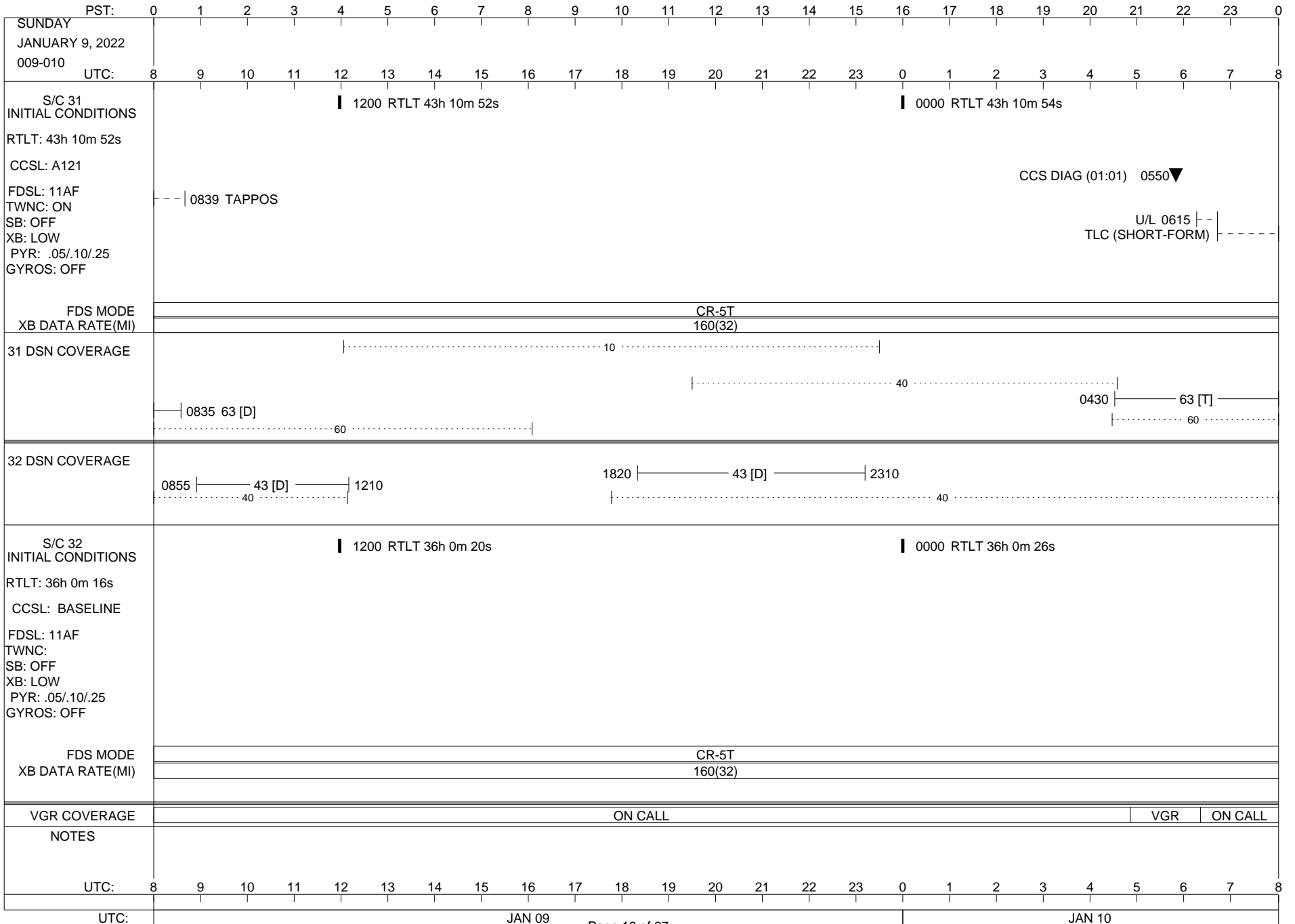


ISSUE DATE: 01/05/22 09:53



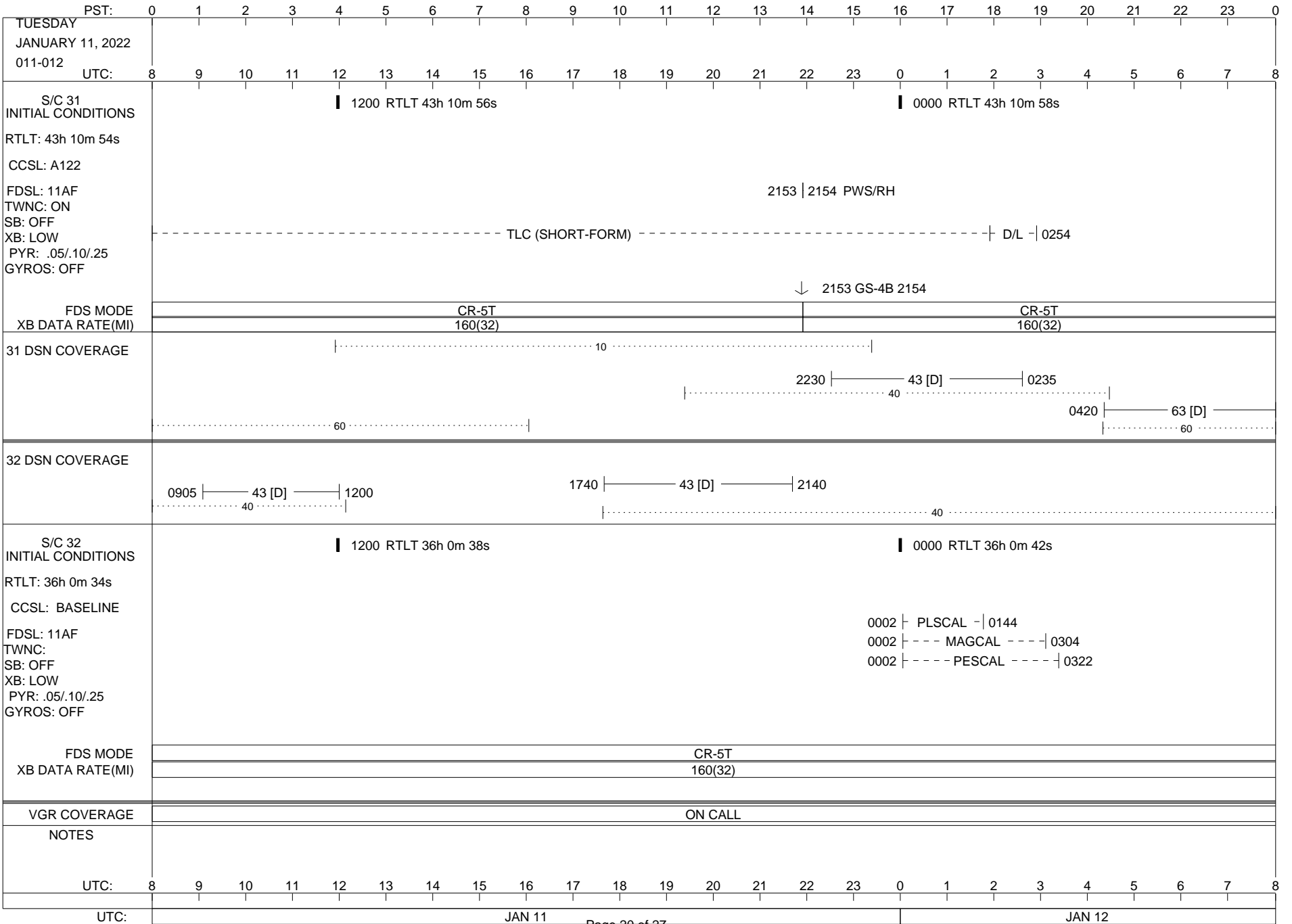
ISSUE DATE: 01/05/22 09:53



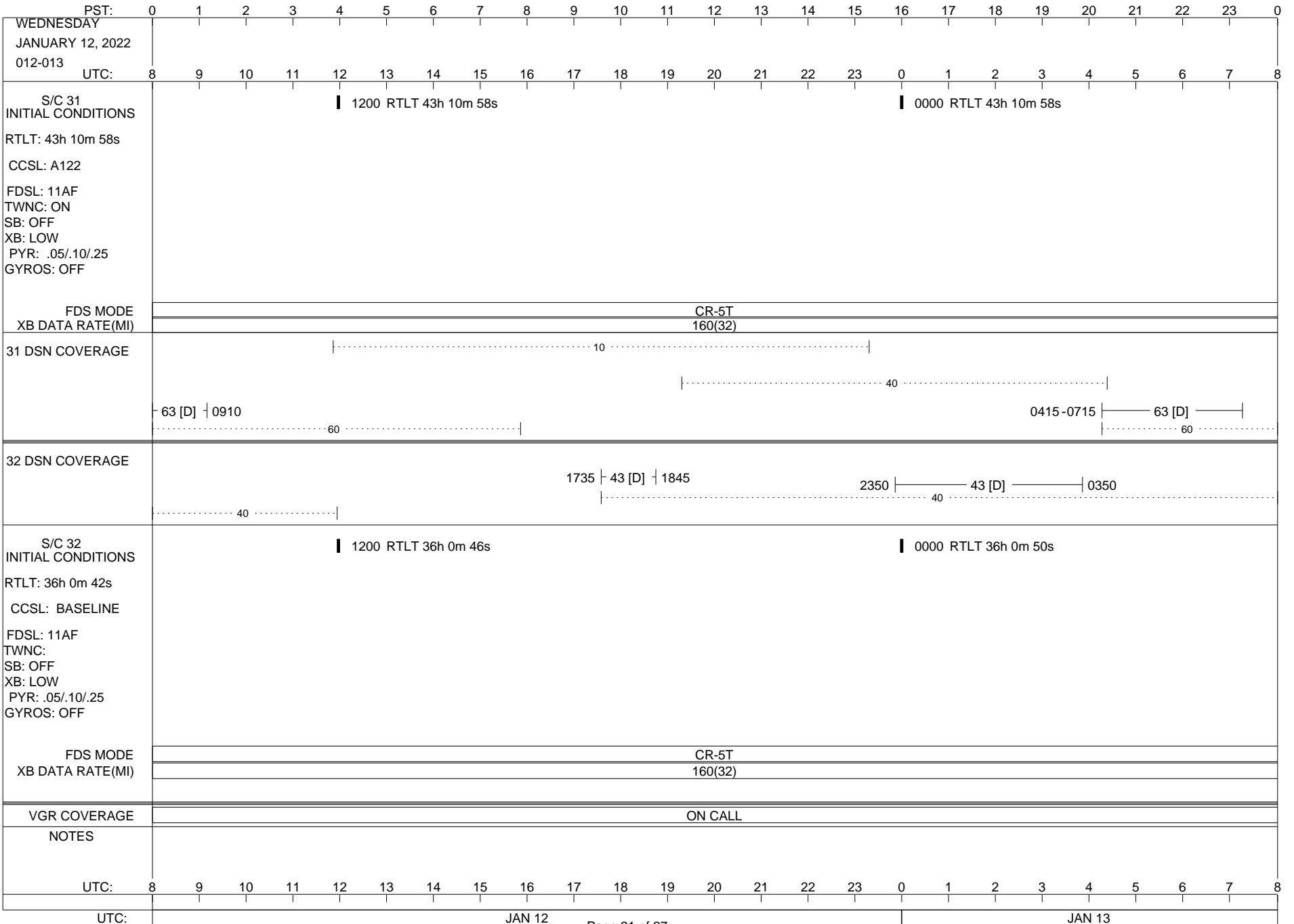


PST:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0
MONDAY JANUARY 10, 2022 010-011	UTC: 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLT: 43h 10m 54s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="display: flex; justify-content: space-between;"> <span>1200 RTLT 43h 10m 54s</span> <span>0000 RTLT 36h 0m 34s</span> </div> <div style="text-align: right; margin-top: 10px;">BEGIN SEQUENCE A122 0644 ↓</div> <hr/> <div style="text-align: center;">TLC (SHORT-FORM)</div> <hr/> <div style="display: flex; justify-content: space-between;"> <span>FDS MODE</span> <span>CR-5T</span> </div> <div style="display: flex; justify-content: space-between;"> <span>XB DATA RATE(MI)</span> <span>160(32)</span> </div>																								
31 DSN COVERAGE	<div style="display: flex; justify-content: space-between;"> <span>0830 63 [T]</span> <span>0425   63 [D]   0525</span> </div> <hr/> <div style="display: flex; justify-content: space-between;"> <span>40</span> <span>1930   43 [D]   2040</span> <span>40</span> </div>																								
32 DSN COVERAGE	<div style="display: flex; justify-content: space-between;"> <span>40</span> <span>1930   43 [D]   2040</span> <span>40</span> </div>																								
S/C 32 INITIAL CONDITIONS RTLT: 36h 0m 26s CCSL: BASELINE FDSL: 11AF TWNC: SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="display: flex; justify-content: space-between;"> <span>1200 RTLT 36h 0m 30s</span> <span>0000 RTLT 36h 0m 34s</span> </div>																								
FDS MODE XB DATA RATE(MI)	<div style="display: flex; justify-content: space-between;"> <span>CR-5T</span> <span>160(32)</span> </div>																								
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												

ISSUE DATE: 01/05/22 09:53

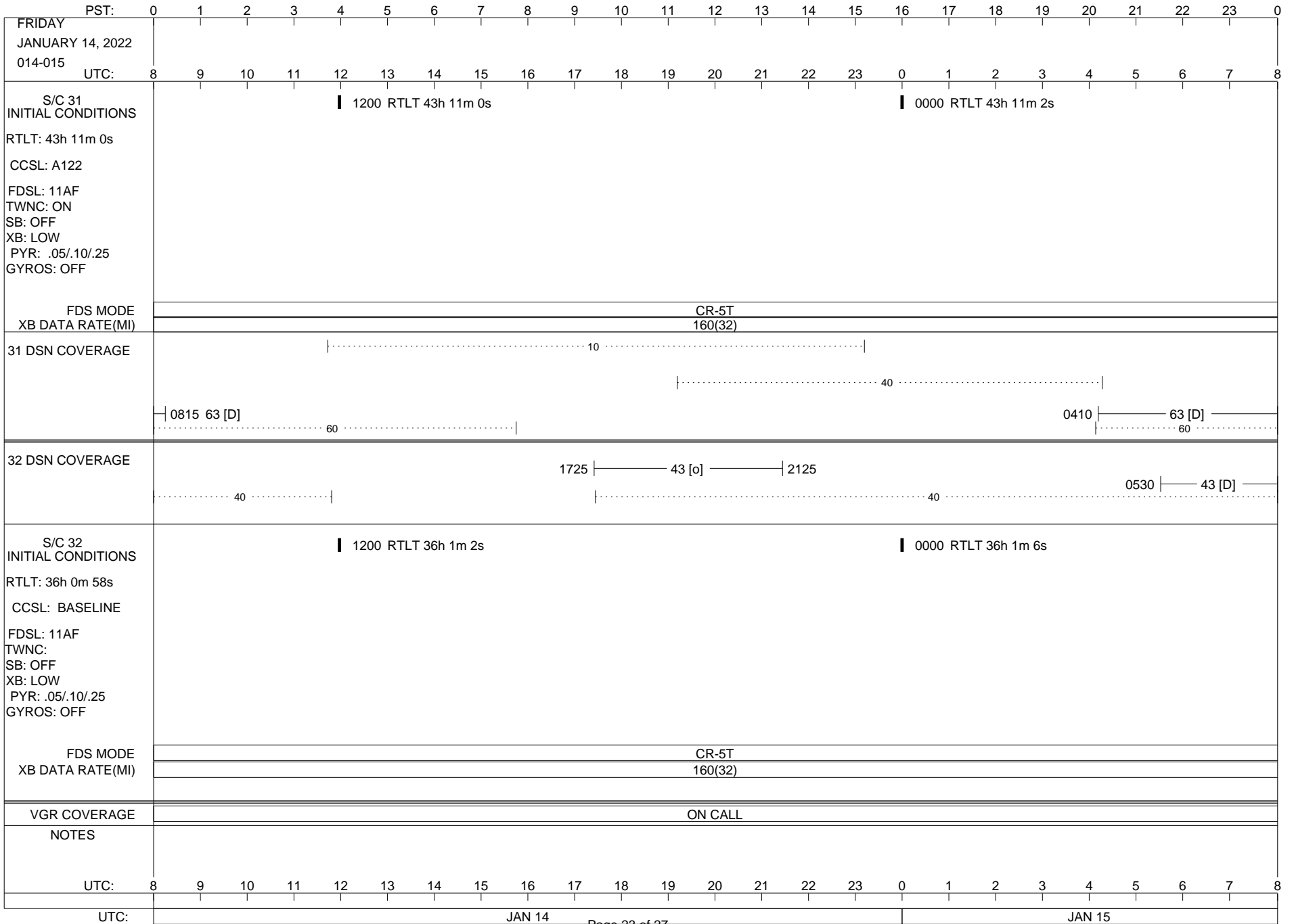


ISSUE DATE: 01/05/22 09:53



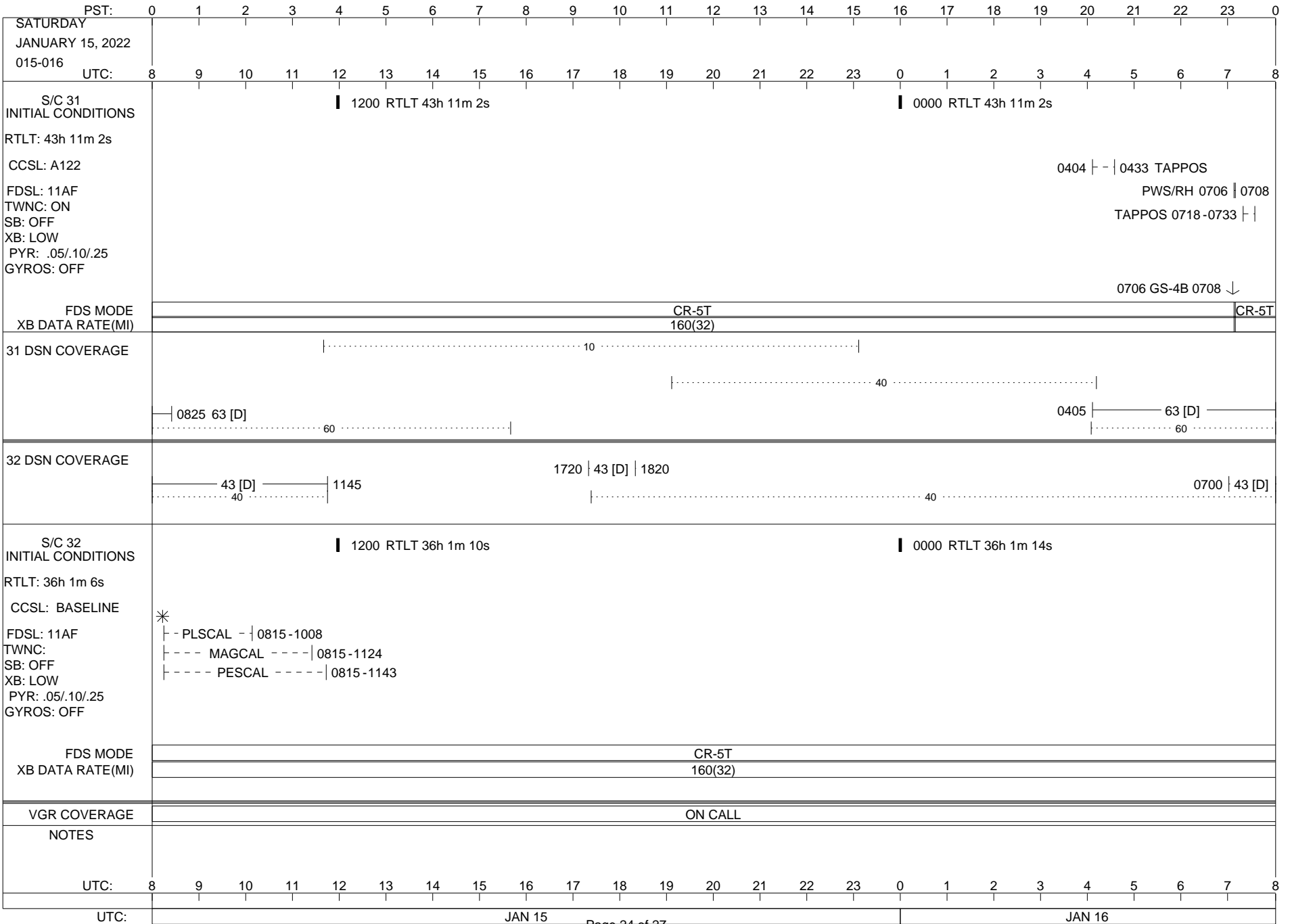


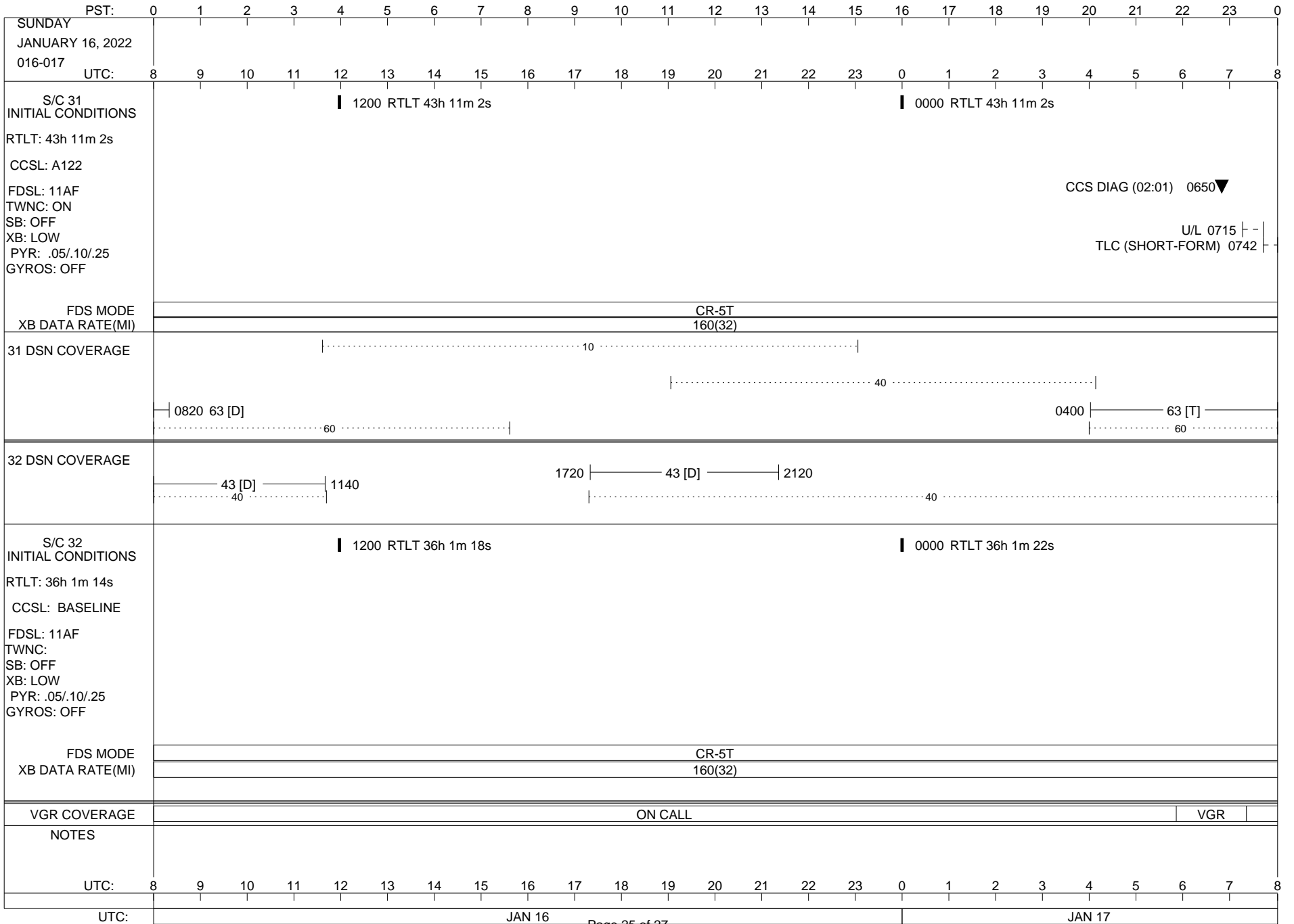
ISSUE DATE: 01/05/22 09:53



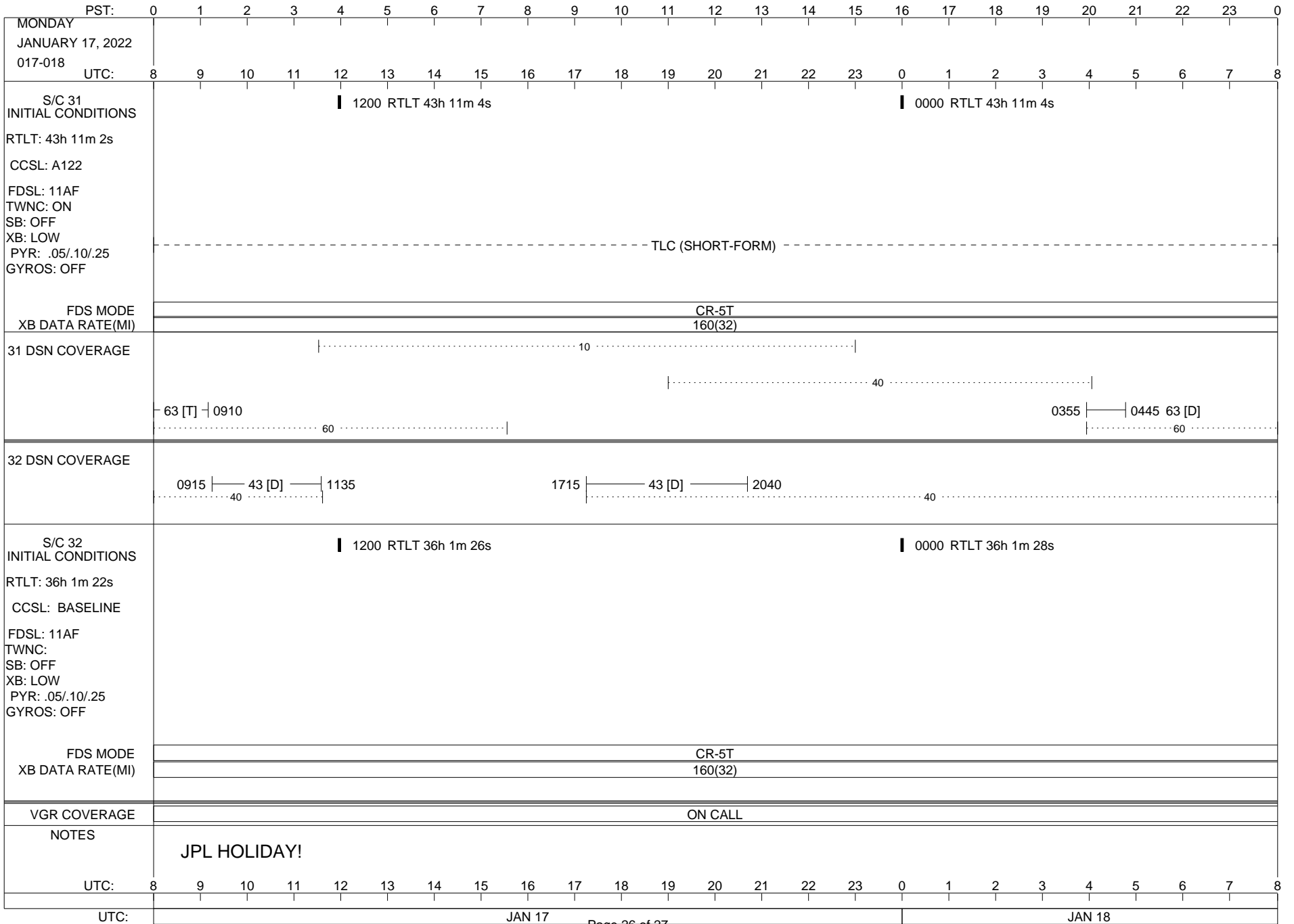


ISSUE DATE: 01/05/22 09:53





ISSUE DATE: 01/05/22 09:53



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 JANUARY 18, 2022 018-019	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 11m 4s CCSL: A122 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 43h 11m 4s												0000 RTLT 43h 11m 4s												
													2129   2130 PWS/RH												
													↓ 0018 BMLIT2 PTR UPD ↓ 0019 1 SID MRO ↓ 0119 REDUNDANT MRO												
	----- TLC (SHORT-FORM) -----   0253																								
													↓ 2129 GS-4B 2130												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	.....  10 .....												2355  -----  43 [D] -----  0355  .....  40 .....												
	.....  60 .....												0355  -----  63 [D] -----  0710  .....  60 .....												
32 DSN COVERAGE	.....  40 .....												1725  -----  43 [o] -----  2305  .....  40 .....												
S/C 32 INITIAL CONDITIONS RTLT: 36h 1m 28s CCSL: BASELINE FDSL: 11AF TWNC: SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 36h 1m 32s												0000 RTLT 36h 1m 36s												
FDS MODE													CR-5T												
XB DATA RATE(MI)													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 18												Page 27 of 27						JAN 19						