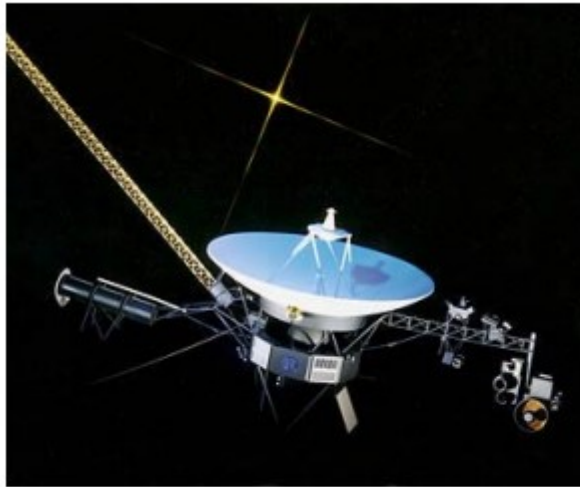


# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: January 15, 2020

For the Period: 01/16/20 to 02/03/20 (20/009 – 20/034)



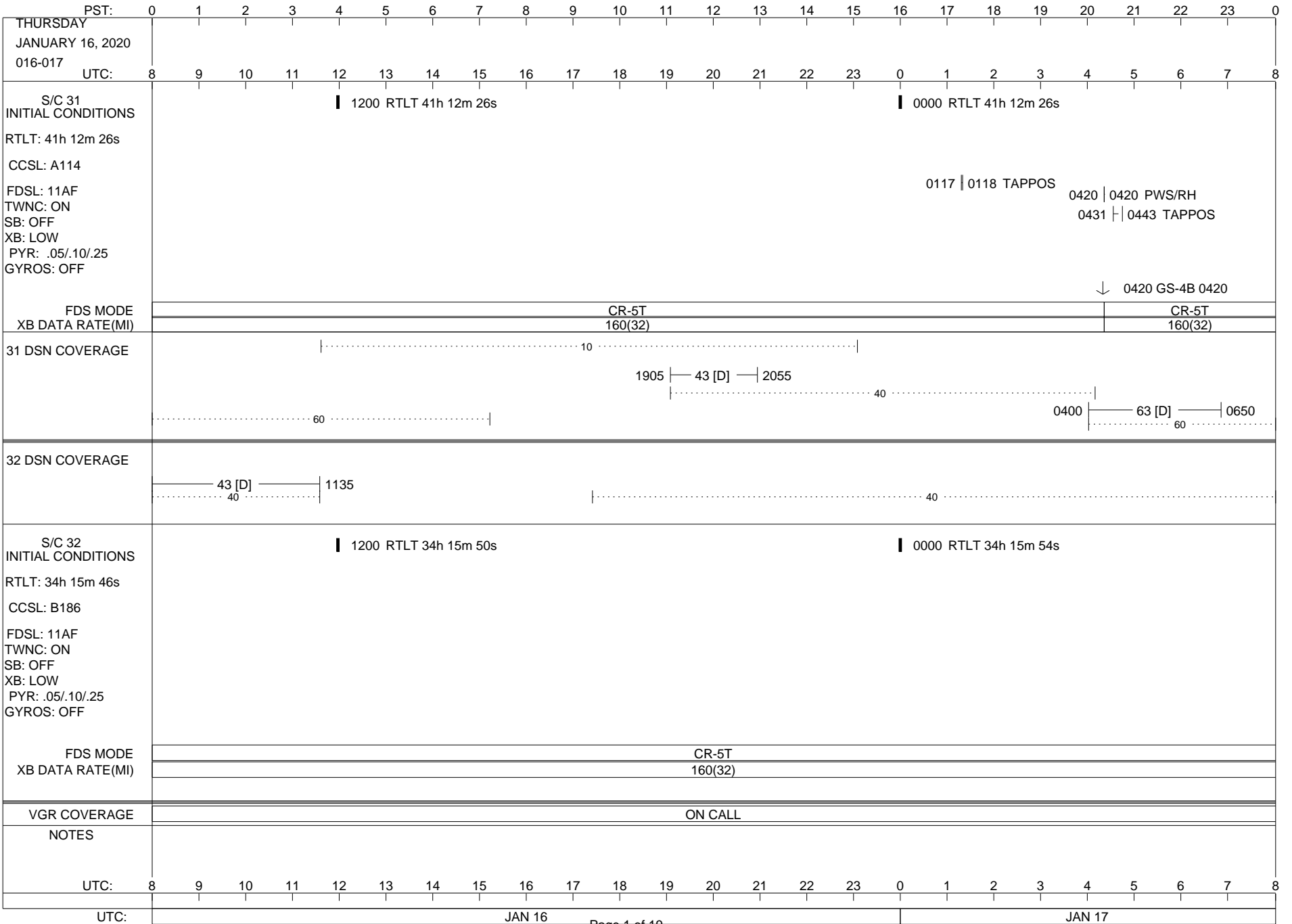
Posted at <https://voyager.jpl.nasa.gov/mission/status/>

**LEGEND:**

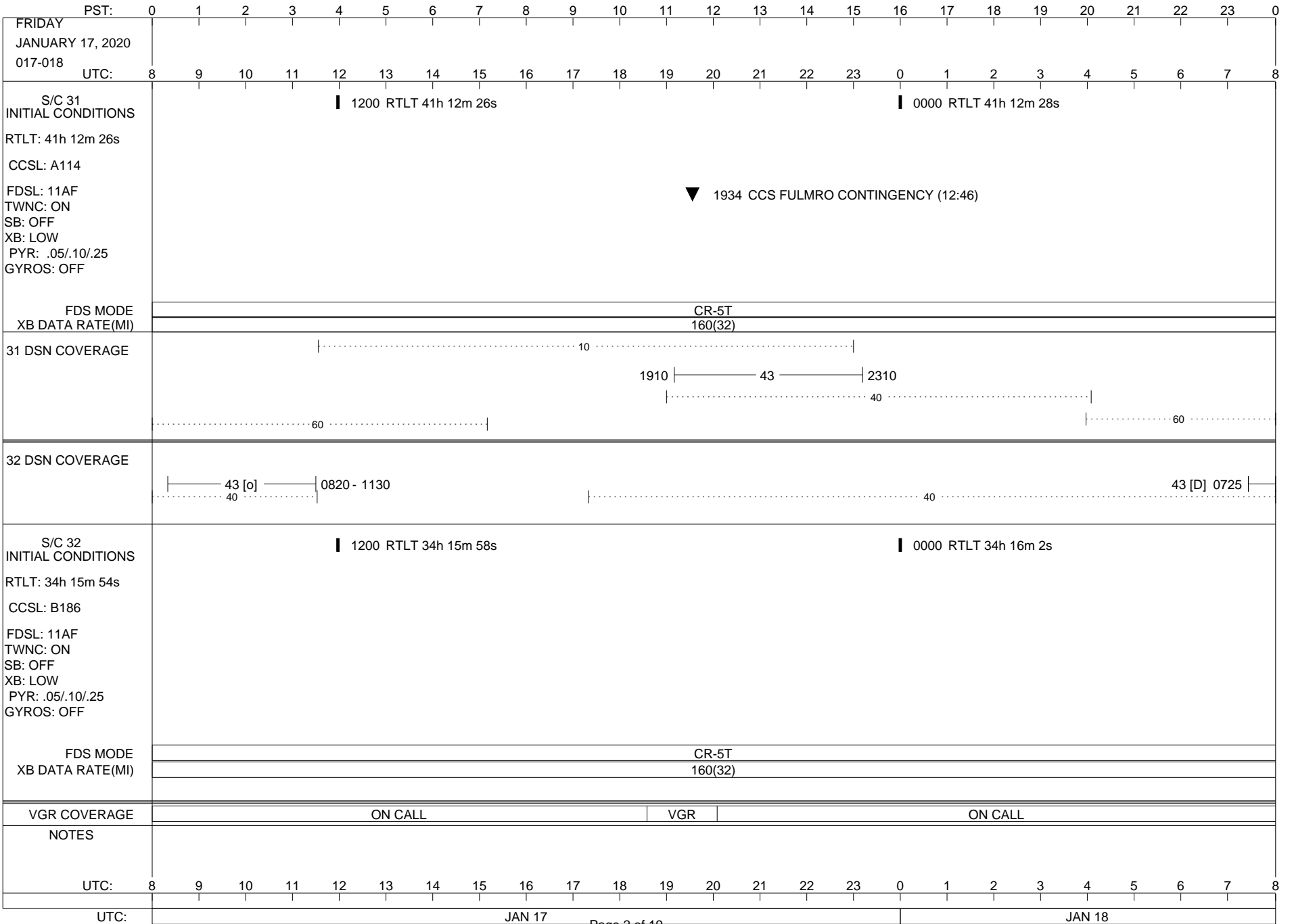
- ∇ = R/T Command (Last chance or Contingency)
- ▼ = R/T Command (Scheduled)
- \* = Result of R/T Command
- n = (where n = 1,2,3 ..) Special Note, see bottom of page
- A = Arrayed station
- B = BLF
- D = Downlink only pass
- H = High Power Transmitter
- R = Array Reference Antenna
- T = TLC Uplink
-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

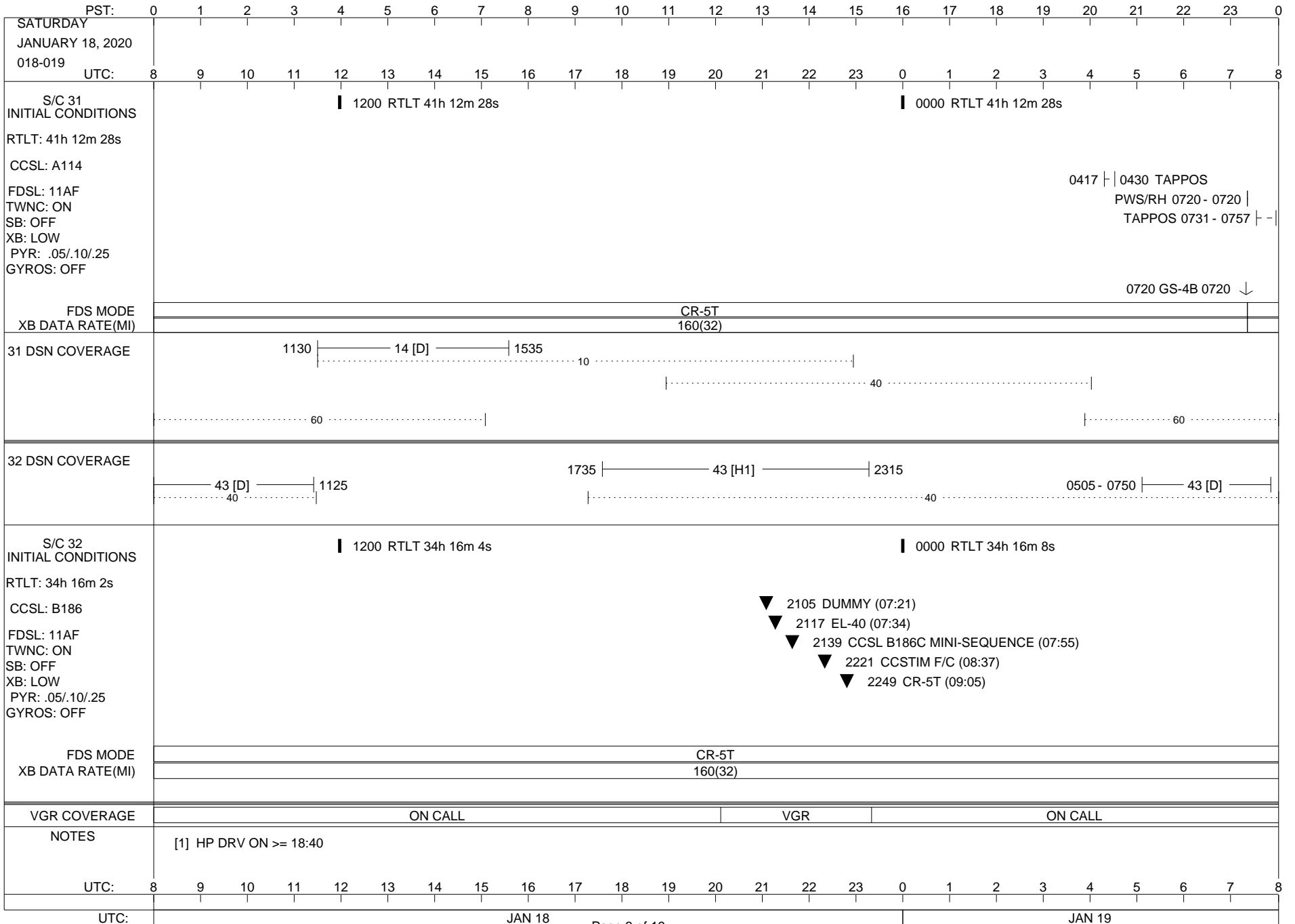
02/27/19

ISSUE DATE: 01/15/20 11:34



ISSUE DATE: 01/15/20 11:34







ISSUE DATE: 01/15/20 11:34

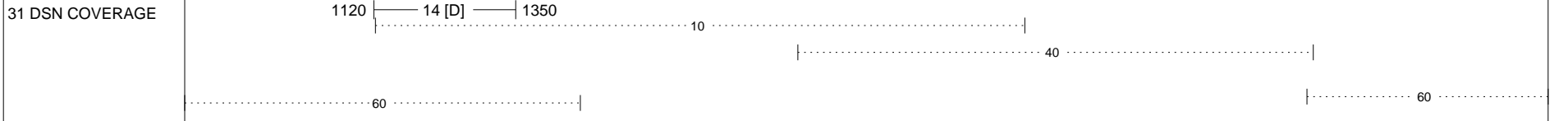
PST: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0

MONDAY  
JANUARY 20, 2020  
020-021  
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: 41h 12m 28s  
CCSL: A114  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLT 41h 12m 28s 0000 RTLT 41h 12m 28s

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



S/C 32  
INITIAL CONDITIONS  
RTLTL: 34h 16m 14s  
CCSL: B186  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLT 34h 16m 18s 0000 RTLT 34h 16m 22s

\* B186C CHKSUM  
\* 0838 - 0845 CCSTIM FINE  
0856 | 0859 COARSE  
\* 0906 CR-5T

FDS MODE EL-40 CR-5T  
XB DATA RATE(MI) 40(30) 160(32)

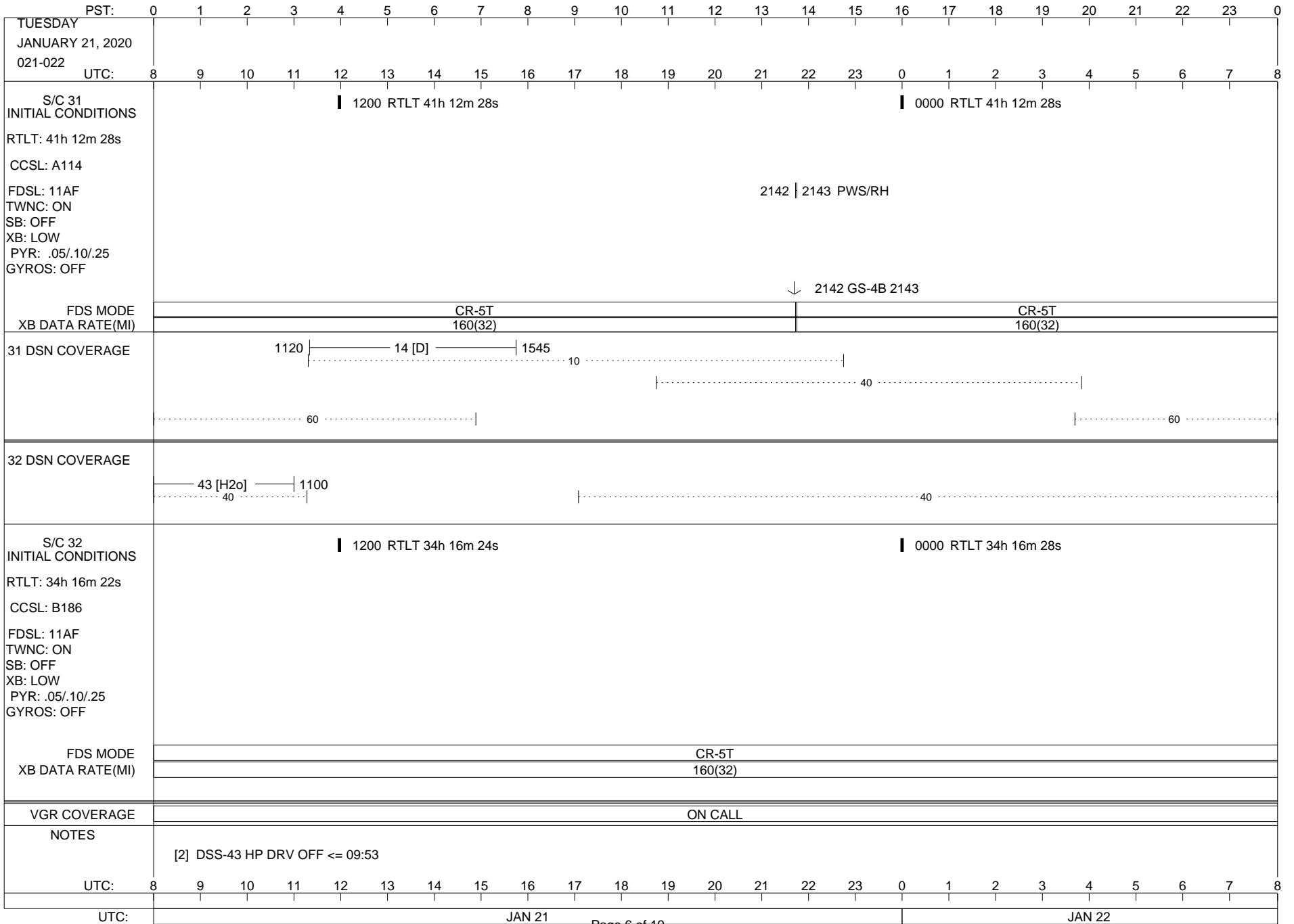
VGR COVERAGE VGR ON CALL

NOTES  
JPL HOLIDAY!  
[1] S/C 32=CR-5T @ 0906 XB=160(32)  
[2] MAGROL MINI-SEQUENCE BACKUP U/L TRACK, HP DVR OFF <= 09:53

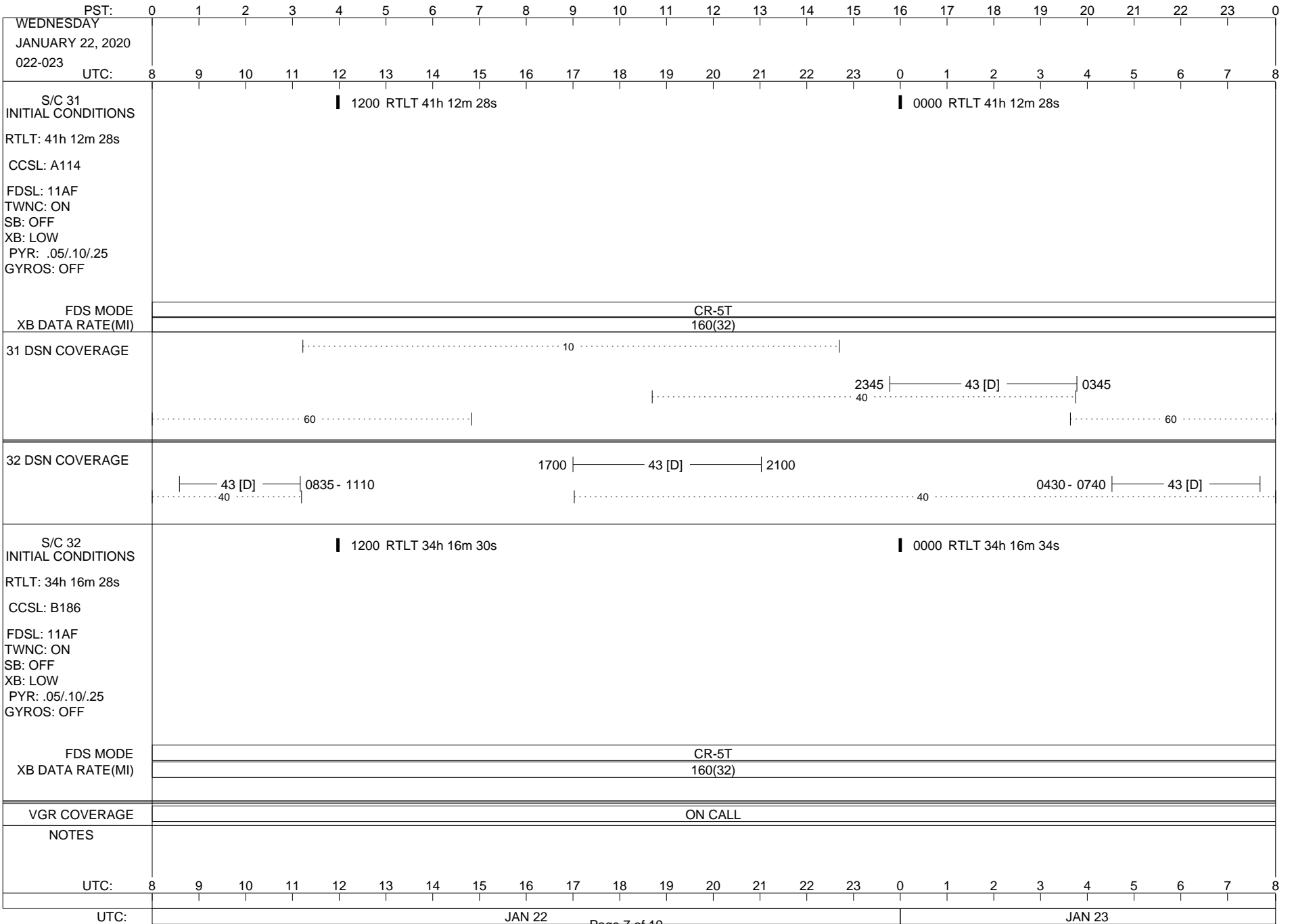
UTC: 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 8

UTC: JAN 20 Page 5 of 19 JAN 21

ISSUE DATE: 01/15/20 11:34



ISSUE DATE: 01/15/20 11:34







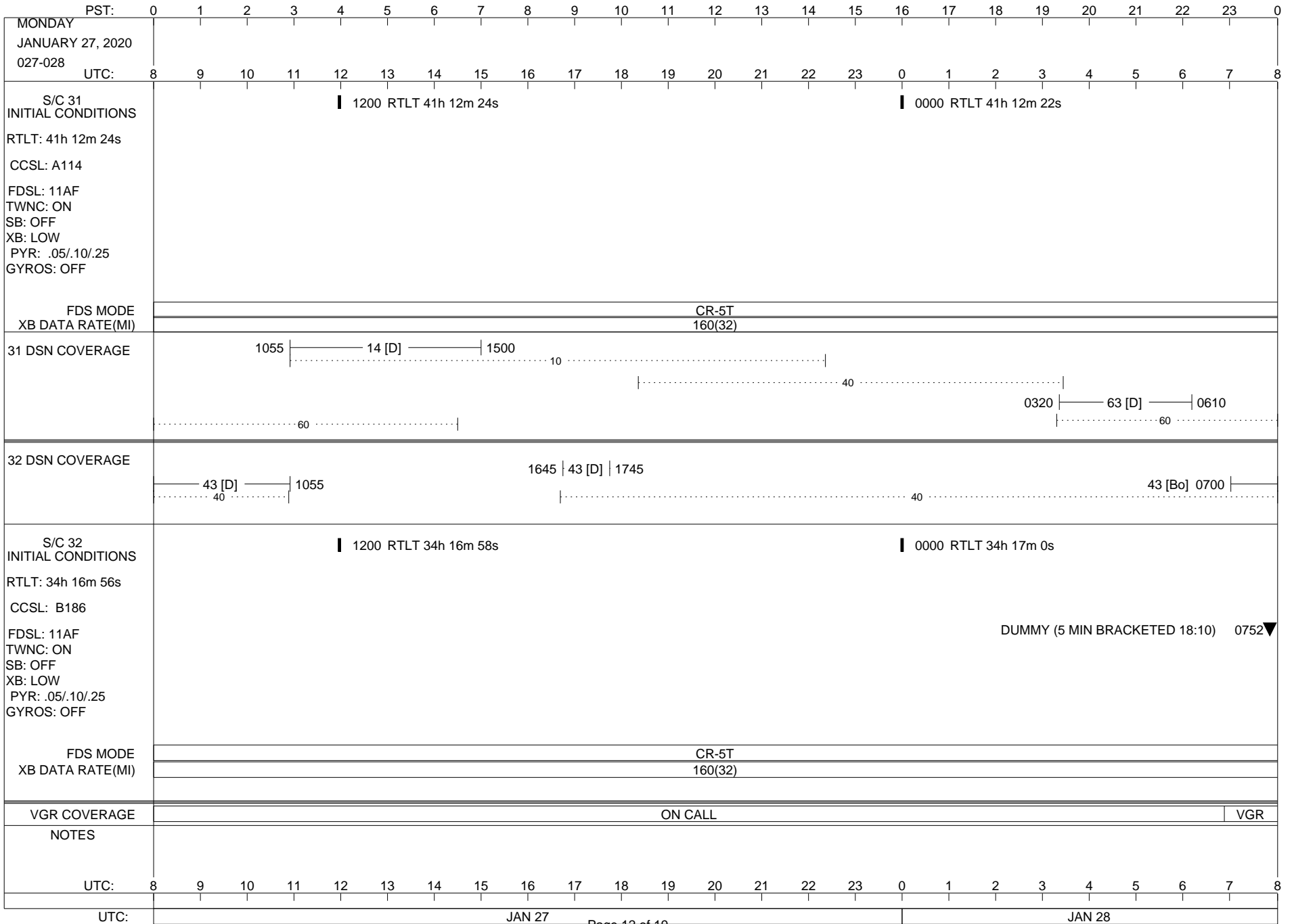


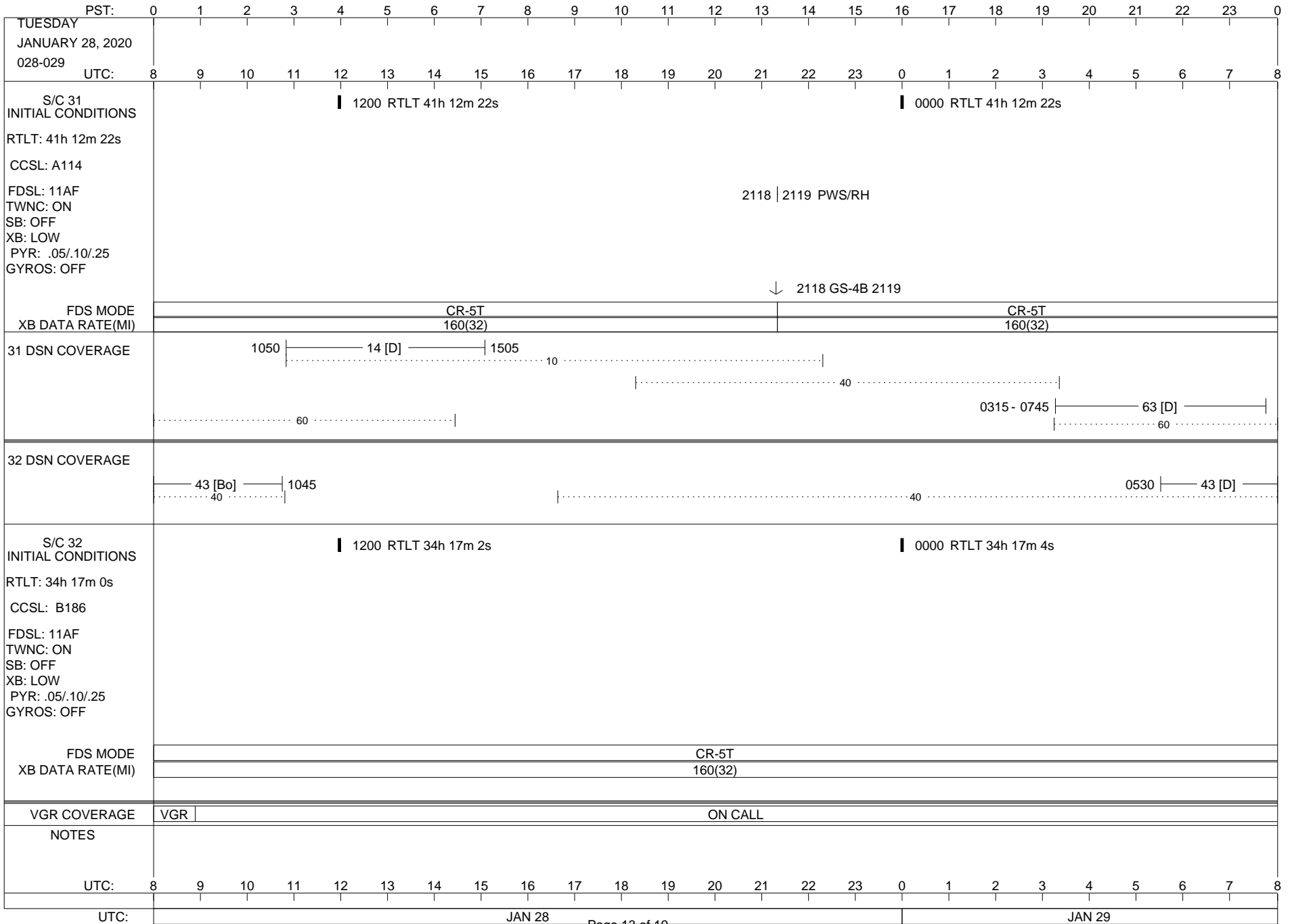
PST:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0
SATURDAY JANUARY 25, 2020 025-026																									
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS	1200 RTLT 41h 12m 26s												0000 RTLT 41h 12m 24s												
RTLTL: 41h 12m 26s													0353   -   0419 TAPPOS PWS/RH 0655   0656 TAPPOS 0707 - 0719   -												
CCSL: A114																									
FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	----- TLC (SHORT-FORM) -----												+ D/L -   0655												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	1105  ----- 14 [D] -----  1345  ----- 10 -----   ----- 40 -----   ----- 60 -----												0325  ----- 63 [D] -----  0615  ----- 60 -----												
32 DSN COVERAGE	43 [D]  ----- 1100  ----- 40 -----												2355 - 0715  ----- 43 [A1o] -----  0035  ----- 35 [DAR1] -----  0245  ----- 40 -----												
S/C 32 INITIAL CONDITIONS	1200 RTLT 34h 16m 48s												0000 RTLT 34h 16m 50s												
RTLTL: 34h 16m 44s													----- COMMAND MORATORIUM -----												
CCSL: B186C													BAY 1 HTR OFF 0105 ↓ GYROS BC ON 0105 ↓ GYRO INIT 0105 ↓ GYRO FAULT TEST 0115 ↓ WGY MRO 0131   0131 AAI 0135 ↓ 1-REV MAGROL 0138   - -   0212 RAI 0218 ↓ GYROS OFF 0223 ↓ BAY 1 HTR ON 0231 ↓ 0107 EL-40 0109 ↓												
FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF													↓ 0308 IMPLEMENT ECR 206632 ↓ 0309 CCSB CLEANUP#2 0357   CCS FULMRO -     CCSA   0513   0513   CCSB   0629 ↓ 0335 EL-40 0629 ↓												
FDS MODE	CR-5T												CR-5T			EL-40			CR-5T						
XB DATA RATE(MI)	160(32)												160(32)			40(30)			160(32)						
VGR COVERAGE	ON CALL												VGR												
NOTES	[1] S/C 32 - D/L AGC VARIATIONS EXPECTED DURING MAGROL (0138-0212) [2] S/C 32=EL-40 @ 0335 XB=40(30) [3] S/C 32=CR-5T @ 0629 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 25												JAN 26												

ISSUE DATE: 01/15/20 11:34

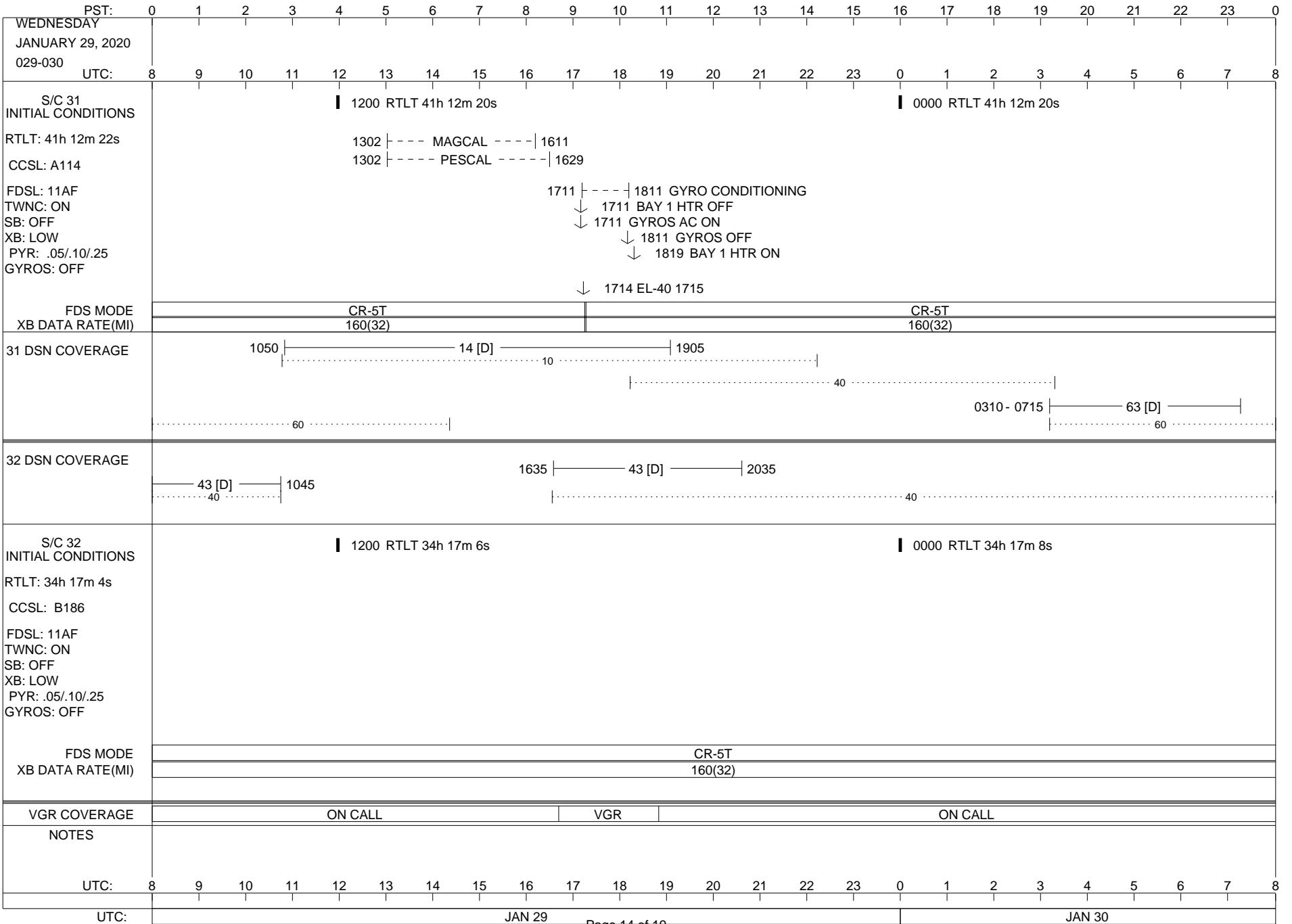
PST:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0
SUNDAY JANUARY 26, 2020 026-027	UTC: 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLT: 41h 12m 24s CCSL: A114 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 41h 12m 24s												█ 0000 RTLT 41h 12m 24s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	1100  ----- 14 [D] -----  1500												10 ..... ----- 40 -----												
	60 .....												0325  ----- 63 [D] -----  0610												
													60 .....												
32 DSN COVERAGE													0655   43 [D]												
	40 .....												40 .....												
S/C 32 INITIAL CONDITIONS RTLT: 34h 16m 50s CCSL: B186C FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 34h 16m 52s												█ 0000 RTLT 34h 16m 56s												
	----- COMMAND MORATORIUM -----												----- 0231 -----												
													END B186C MINI-SEQUENCE 0249 ↓												
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 26												JAN 27												

ISSUE DATE: 01/15/20 11:34

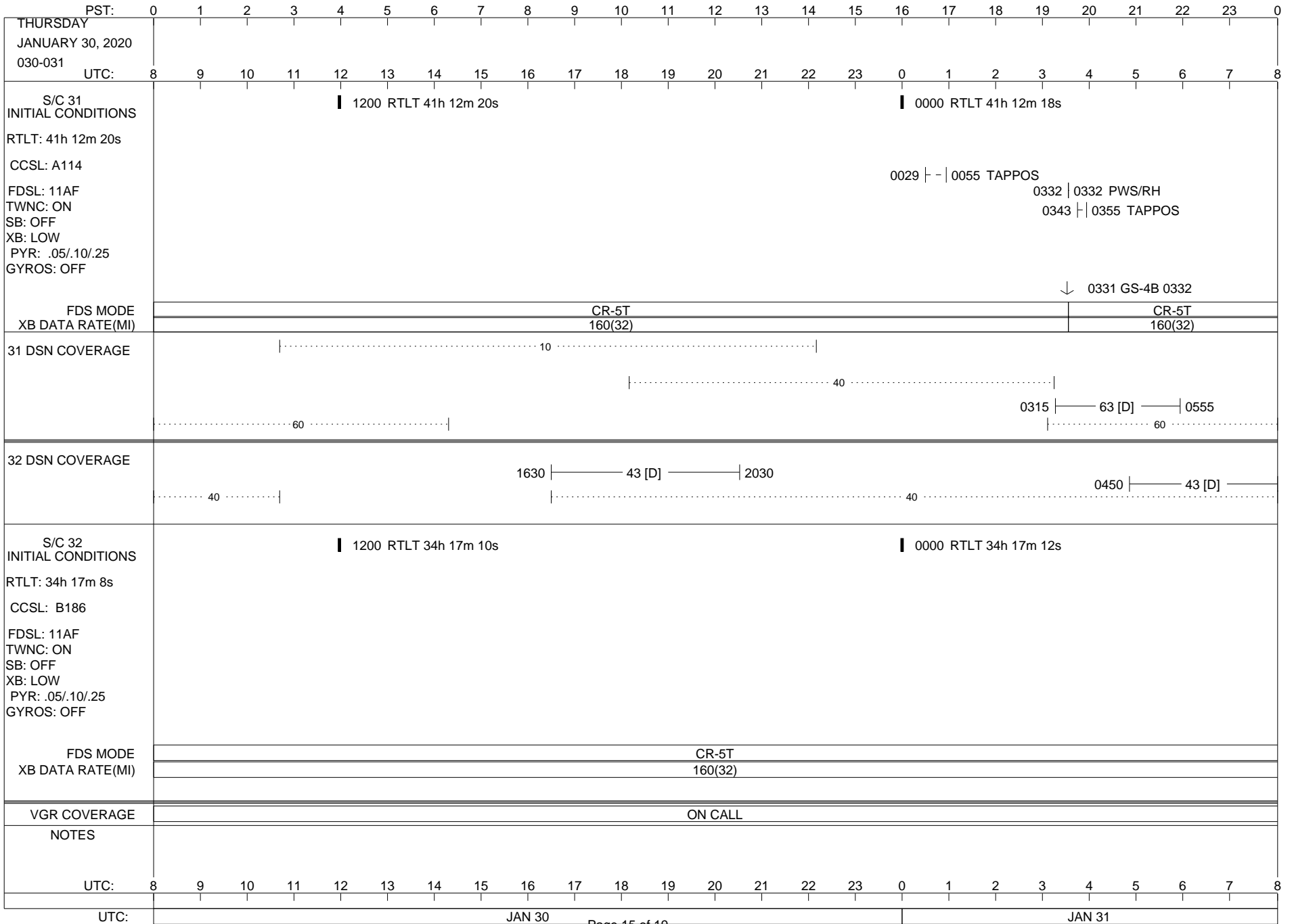




ISSUE DATE: 01/15/20 11:34

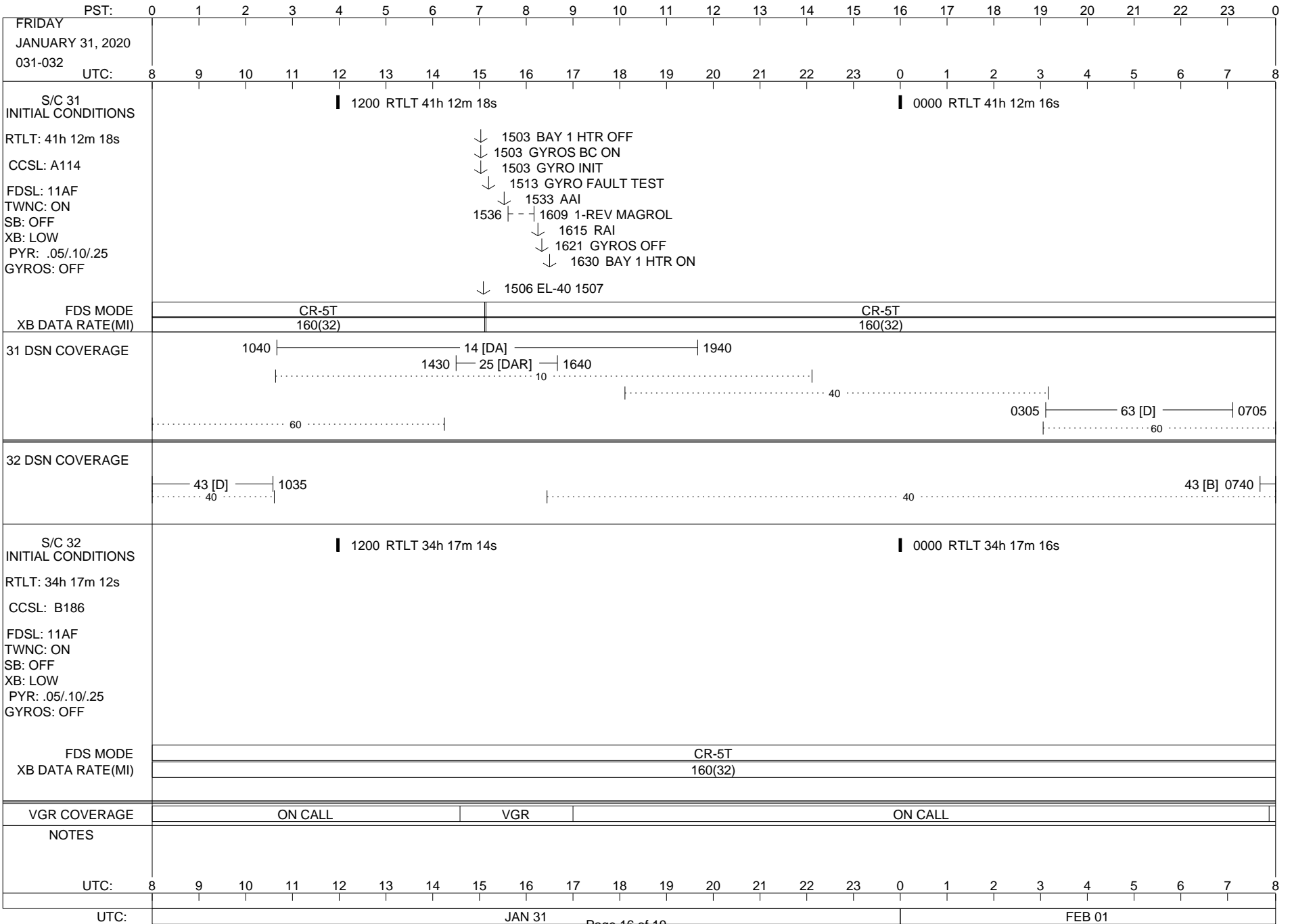


ISSUE DATE: 01/15/20 11:34



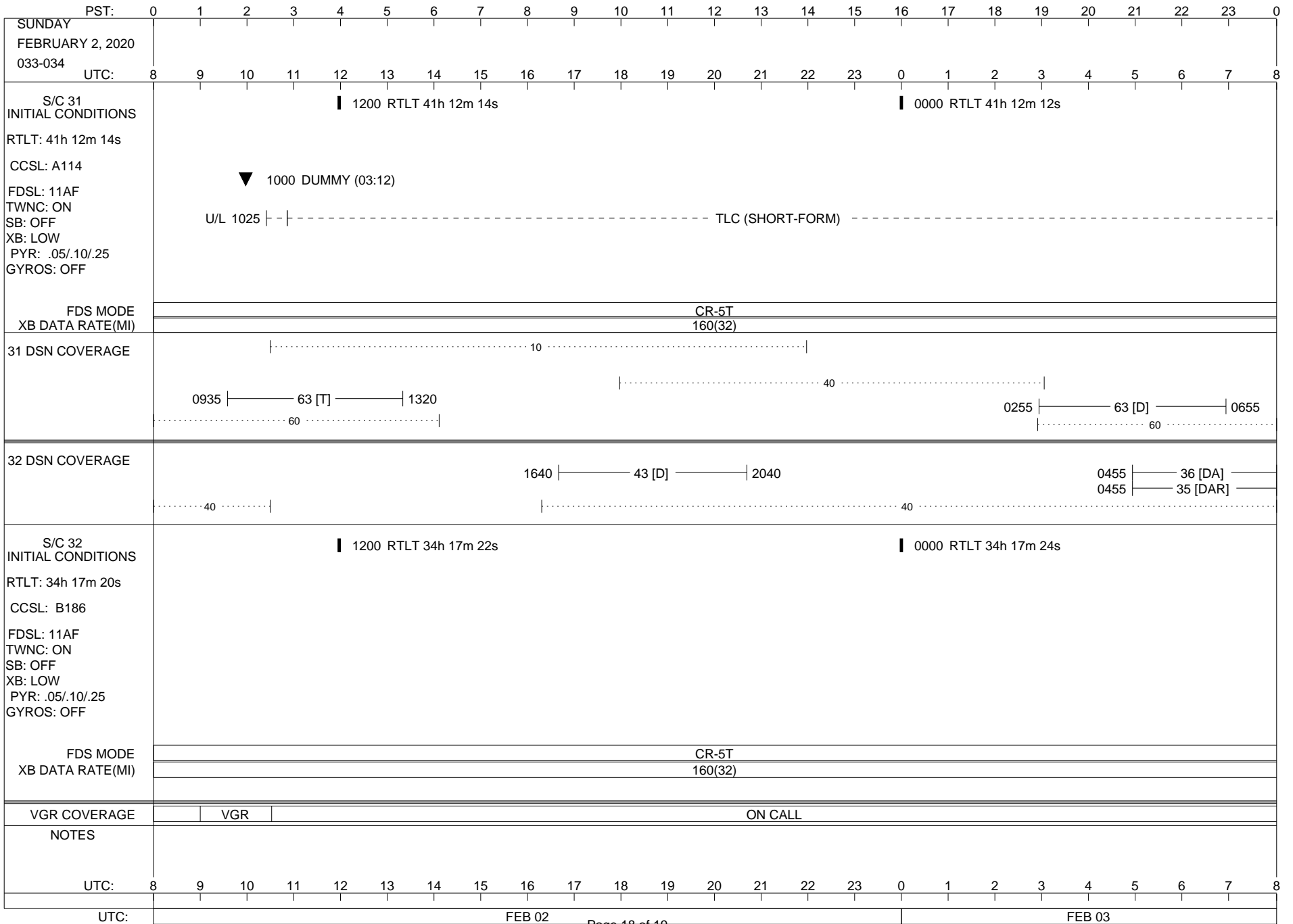


ISSUE DATE: 01/15/20 11:34



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 FEBRUARY 1, 2020 032-033	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: 41h 12m 16s CCSL: A114 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 41h 12m 16s												0000 RTLT 41h 12m 14s												
	0329   0341 TAPPOS PWS/RH 0631   0632 TAPPOS 0643   0644																								
	0631 GS-4B 0632 ↓																								
FDS MODE	CR-5T																								
XB DATA RATE(MI)	160(32)																								
31 DSN COVERAGE	.....  10 .....   .....  40 .....   .....  60 .....																								
32 DSN COVERAGE	43 [B]   1030 40 .....  1620   1710 43 [D] 2300   43 [DAR]   0200 2300   36 [DA]   0200 40 .....																								
S/C 32 INITIAL CONDITIONS RTLT: 34h 17m 16s CCSL: B186 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 34h 17m 18s												0000 RTLT 34h 17m 20s												
	▼ 0852 DUMMY (5 MIN BRACKETED 19:10)																								
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:	FEB 01												FEB 02												

ISSUE DATE: 01/15/20 11:34



ISSUE DATE: 01/15/20 11:34

