

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: July 21, 2020

For the Period: 07/23/20 to 08/10/20 (20/205 – 20/223)



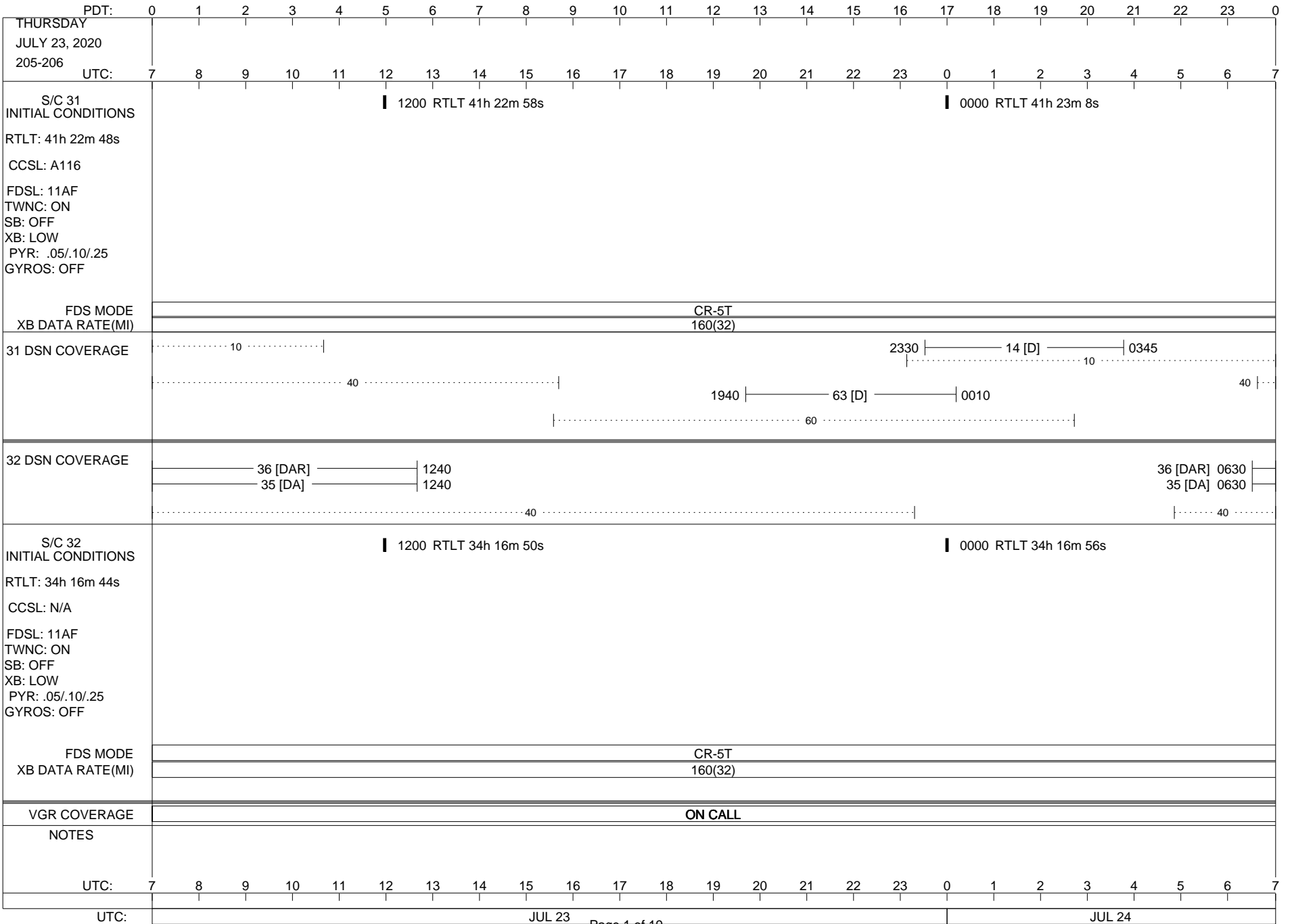
Posted at <https://voyager.jpl.nasa.gov/mission/status/>

**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

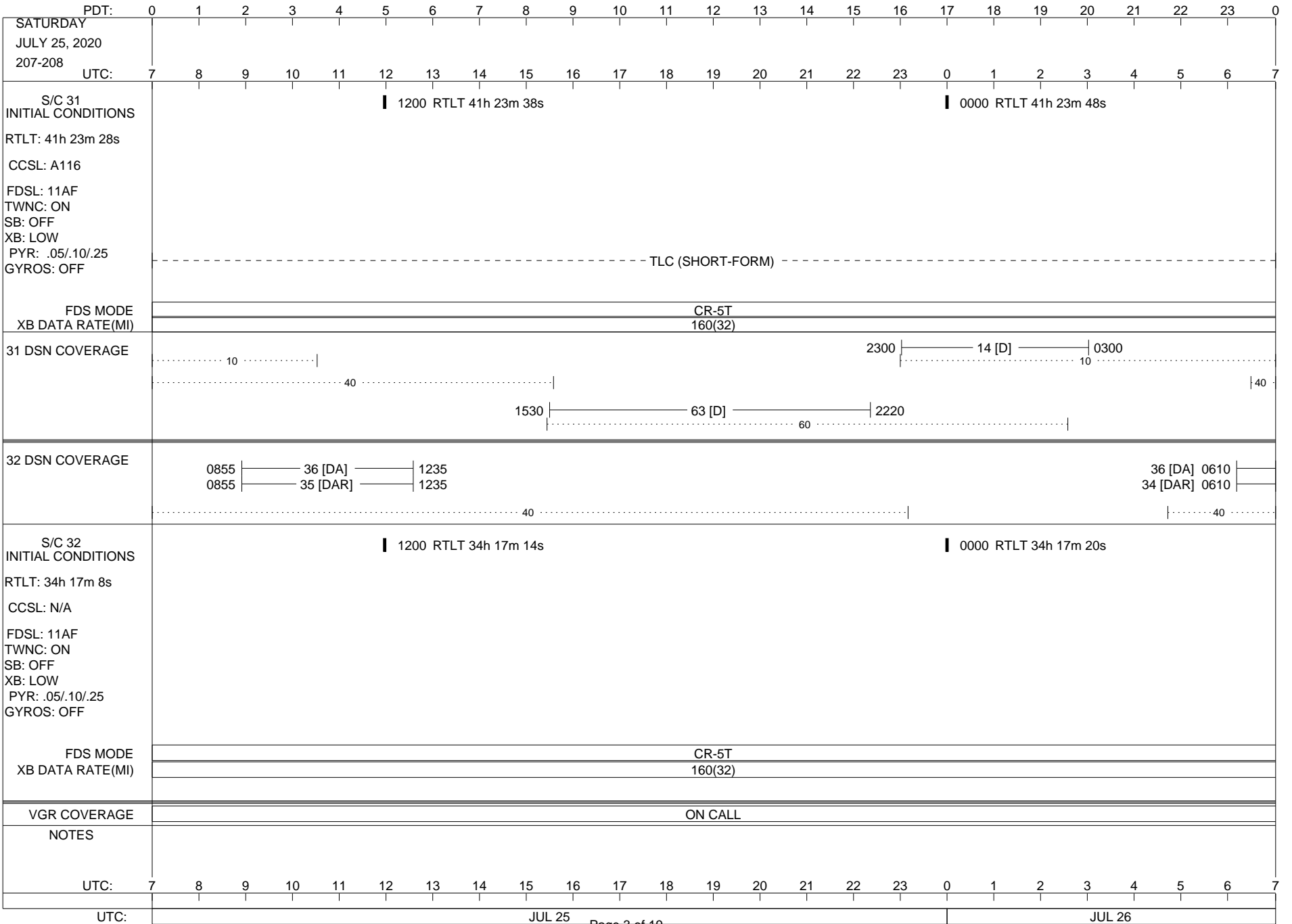
ISSUE DATE: 07/21/20 12:41



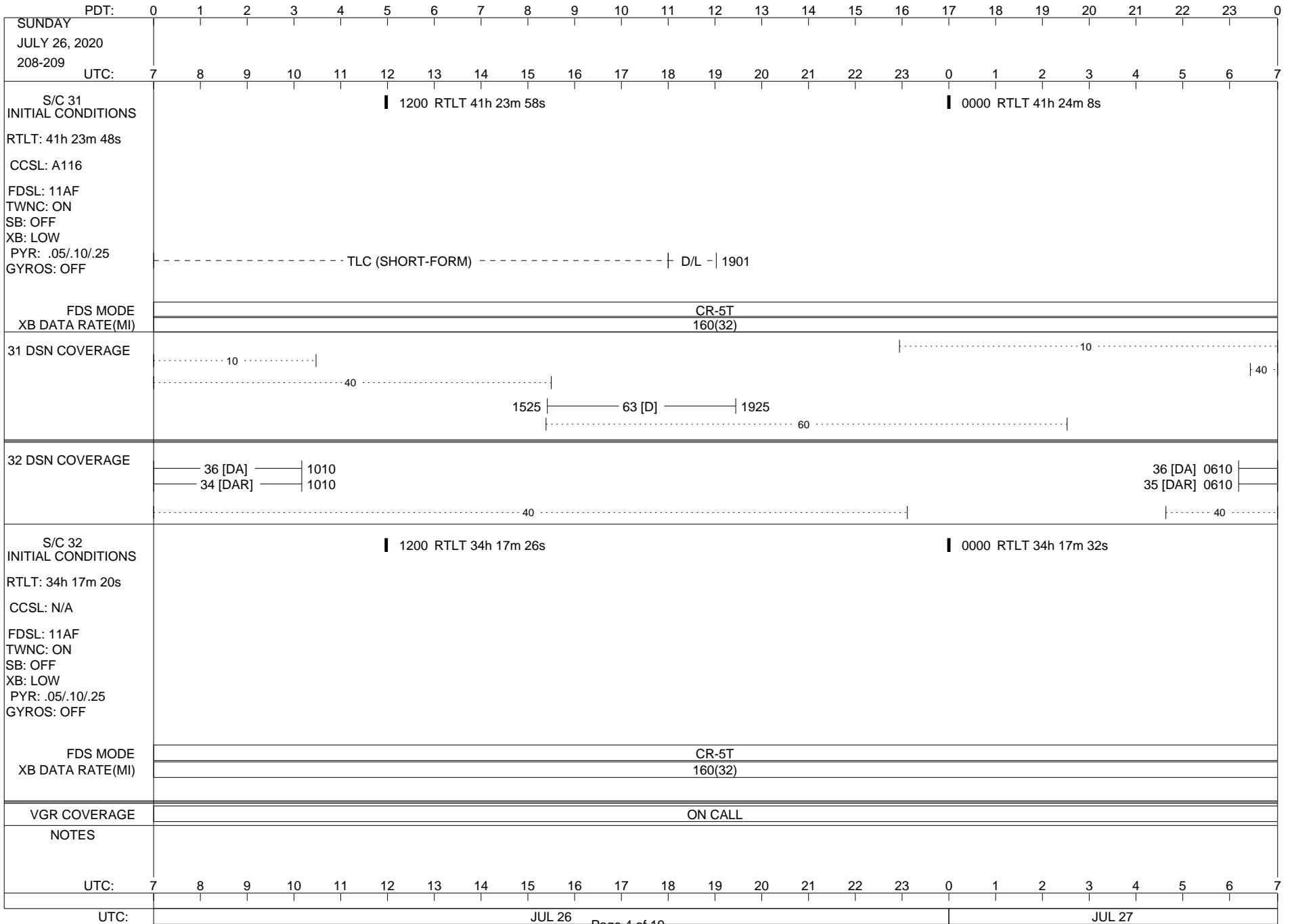
ISSUE DATE: 07/21/20 12:41

PDT: 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 JULY 24, 2020 206-207	
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: 41h 23m 8s CCSL: A116 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLT 41h 23m 18s</p> <p>0000 RTLT 41h 23m 28s</p> <p>↓ 2328 LINK 10 MS YAW ↓ 2330 DELINK 60 MS YAW 2333    2335 AACS MRO</p> <p>▼ 2345 DUMMY (17:08)</p> <p>U/L 0010   -   - - - - - TLC (SHORT-FORM) - - - - -</p>
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)
31 DSN COVERAGE	<p>2320  ----- 14 [T] -----  0200</p> <p>.....10 ..... </p> <p>.....40 ..... </p> <p>1530  ----- 63 [D] -----  1820</p> <p>.....60 ..... </p>
32 DSN COVERAGE	<p>----- 36 [DAR] -----  1055</p> <p>----- 35 [DA] -----  1055</p> <p>.....40 ..... </p> <p>.....40 ..... </p>
S/C 32 INITIAL CONDITIONS RTLT: 34h 16m 56s CCSL: N/A FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLT 34h 17m 2s</p> <p>0000 RTLT 34h 17m 8s</p>
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: JUL 24 Page 2 of 19 JUL 25	

ISSUE DATE: 07/21/20 12:41



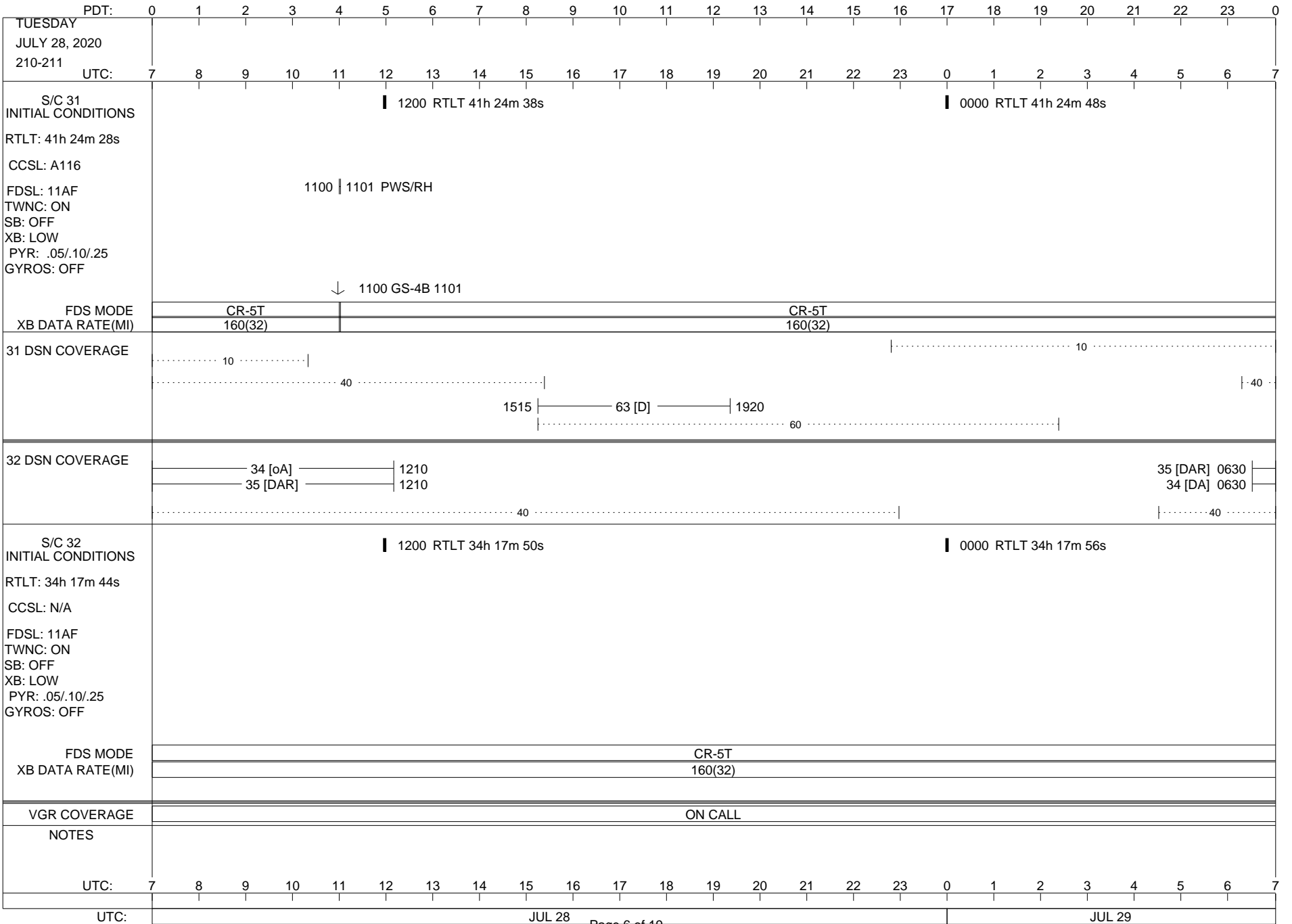
ISSUE DATE: 07/21/20 12:41

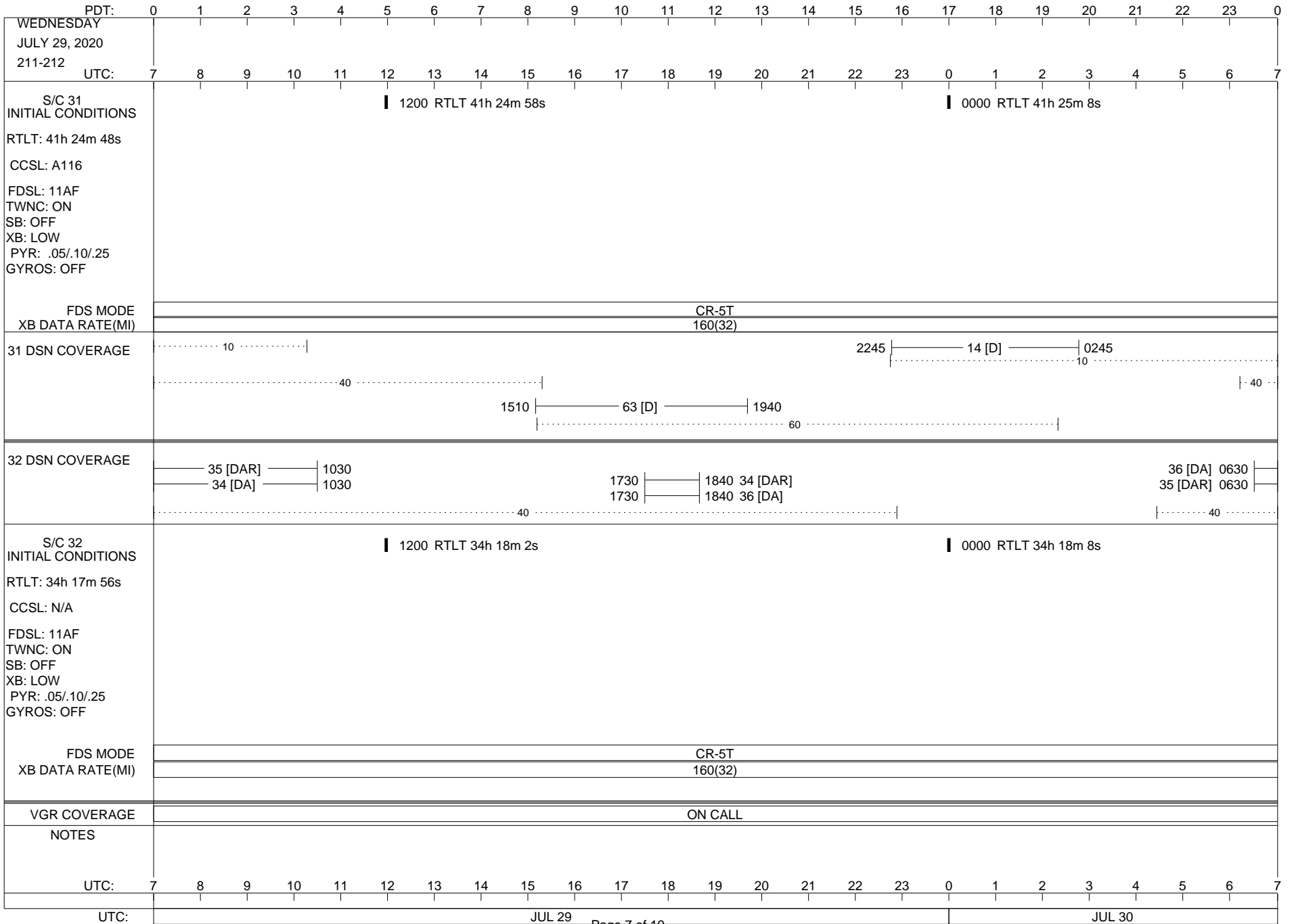


ISSUE DATE: 07/21/20 12:41

PDT:	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:	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			
MONDAY JULY 27, 2020 209-210																												
S/C 31 INITIAL CONDITIONS RTLT: 41h 24m 8s CCSL: A116 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 41h 24m 18s												0000 RTLT 41h 24m 28s															
													↓ 1957 PYR = .05/05/05 2002   -   2034 ASCAL ↓ 2034 PYR = .05/10/25 ↓ 2035 AAC SIN FCP SWAP TABLE NO-OP ↓ 2037 1 SID MRO															
FDS MODE	CR-5T												EL-40		CR-5T													
XB DATA RATE(MI)	160(32)												40(30)		160(32)													
31 DSN COVERAGE																												
32 DSN COVERAGE																												
S/C 32 INITIAL CONDITIONS RTLT: 34h 17m 32s CCSL: N/A FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 34h 17m 38s												0000 RTLT 34h 17m 44s															
FDS MODE	CR-5T																											
XB DATA RATE(MI)	160(32)																											
VGR COVERAGE	ON CALL												VGR		ON CALL													
NOTES	[1] SC 31=EL-40 @ 1936 XB=40(30) [2] SC 31=CR-5T @ 2039 XB=160(32)																											
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:	JUL 27														JUL 28													

ISSUE DATE: 07/21/20 12:41

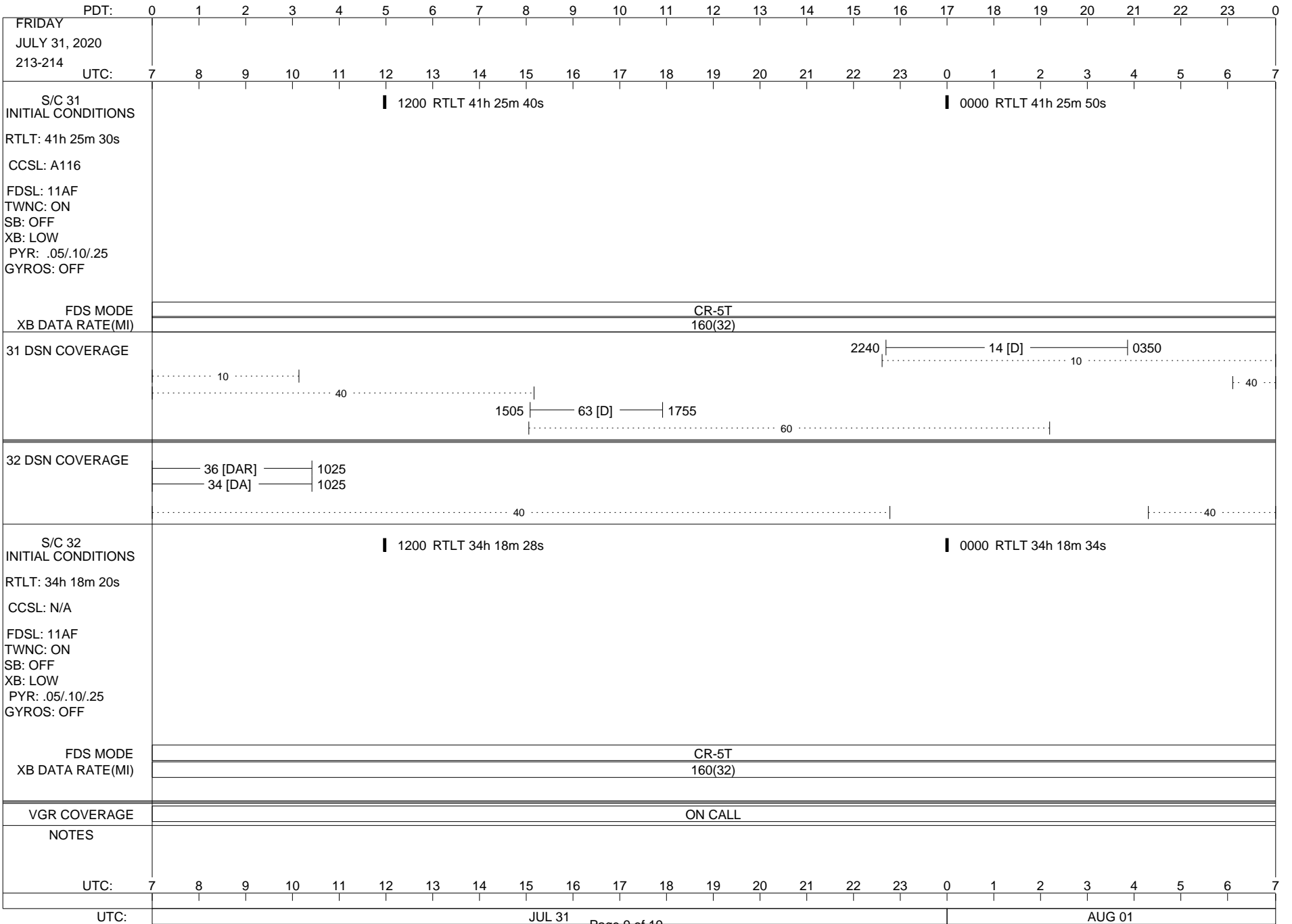




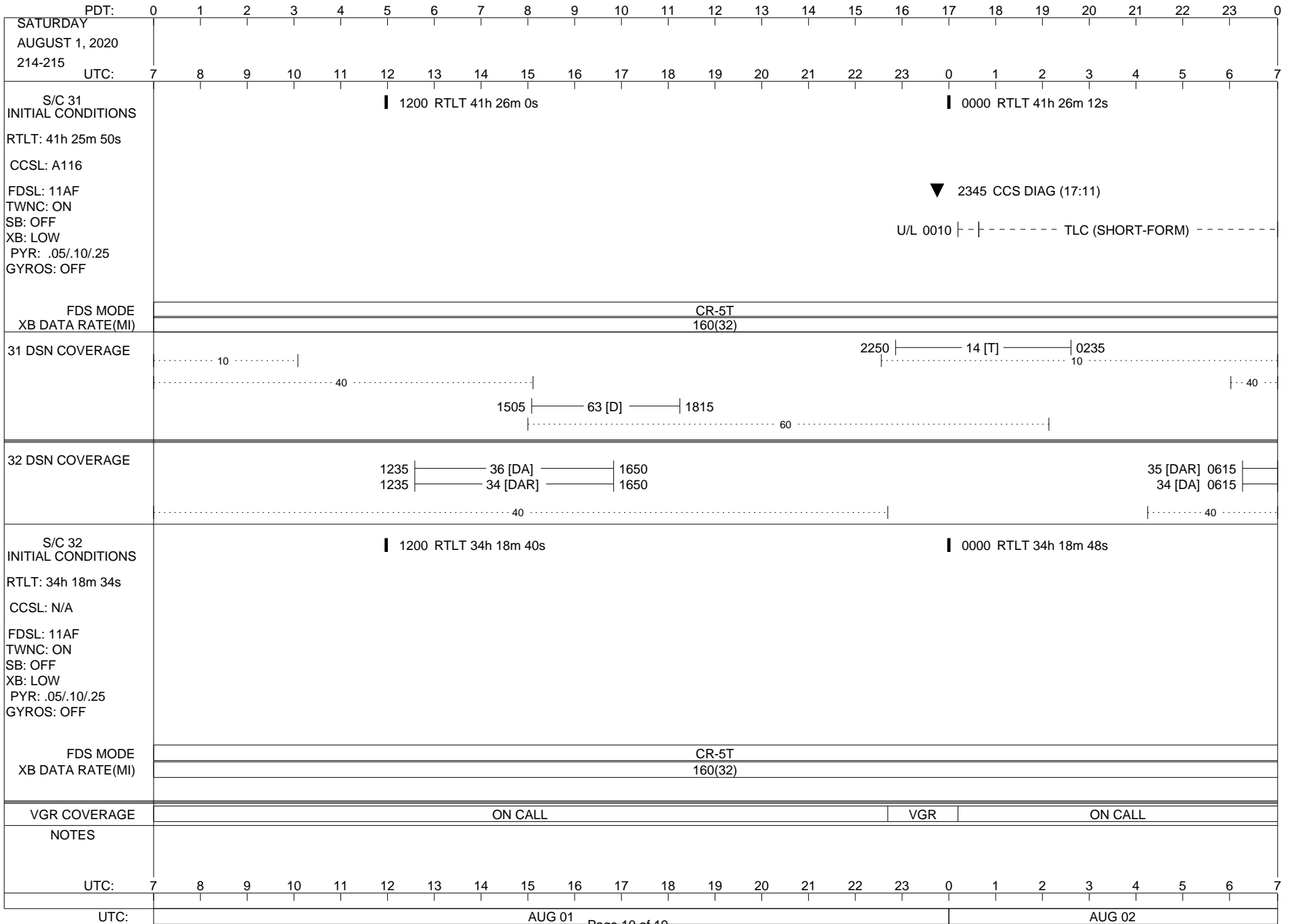


PDT:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	
THURSDAY JULY 30, 2020 212-213																										
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
S/C 31 INITIAL CONDITIONS RTLT: 41h 25m 8s CCSL: A116 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 41h 25m 20s												0000 RTLT 41h 25m 30s													
													GYROS BC ON 0309 ↓ BAY 1 HTR OFF 0309 ↓ GYRO INIT 0310 ↓ GYRO FAULT TEST 0319 ↓ AAI 0340 ↓ MAGROL 0343   -   0415 RAI 0422 ↓ GYROS OFF 0428 ↓ BAY 1 HTR ON 0436 ↓  EL-40 0314 ↓ 0313													
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
31 DSN COVERAGE	.....10 .....  .....40 .....  1510   63 [D]   1635 .....60 .....												2330  -----14 [DA]-----  0500 0030  -----25 [DAR]-----  0500 .....10 .....  .....40 .....													
32 DSN COVERAGE	-36 [DA] -  0840 -35 [DAR] -  0840 .....40 .....												36 [DAR] 0555   34 [DA] 0555   .....40 .....													
S/C 32 INITIAL CONDITIONS RTLT: 34h 18m 8s CCSL: N/A FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 34h 18m 14s												0000 RTLT 34h 18m 20s													
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												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:	JUL 30												JUL 31													

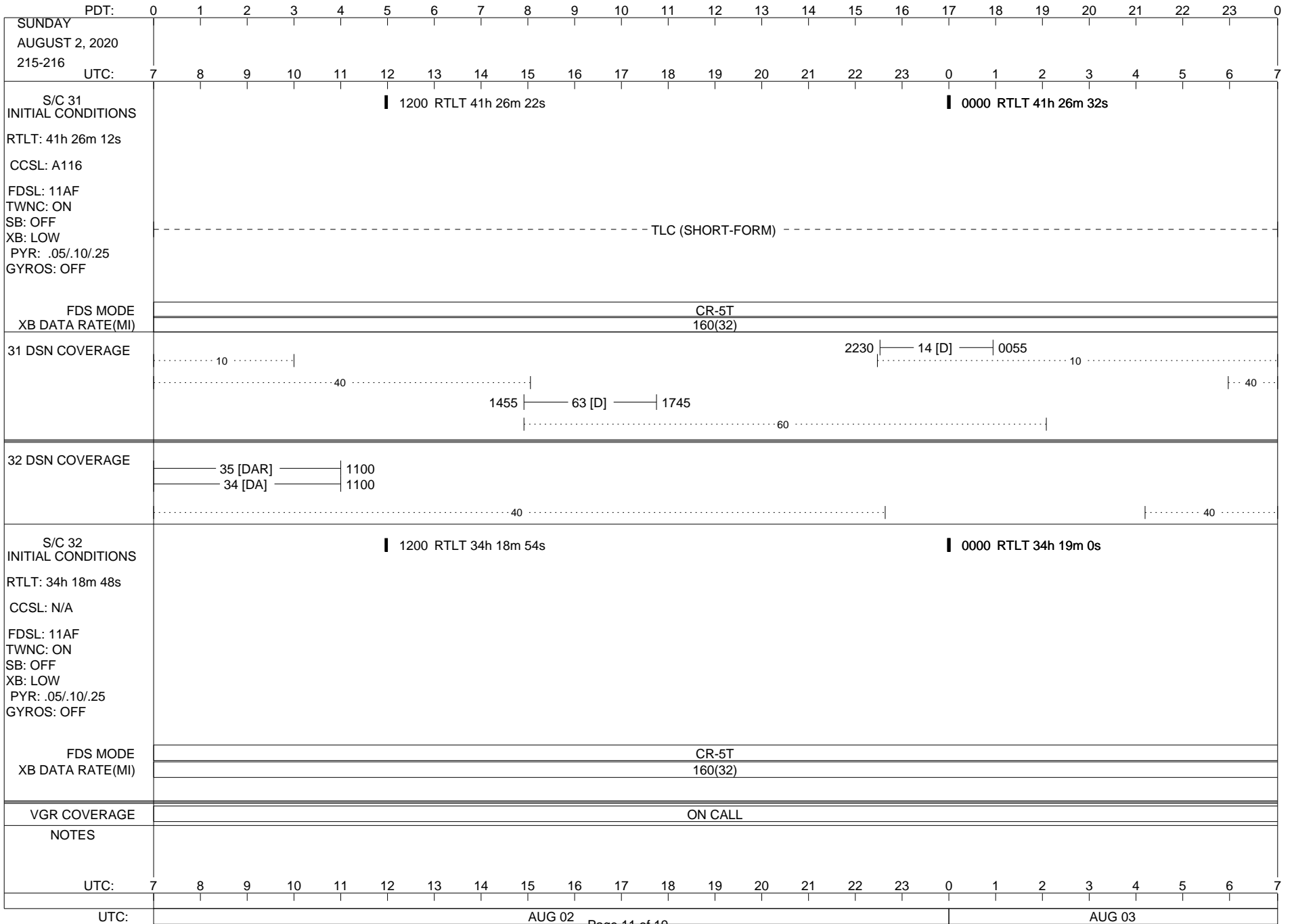
ISSUE DATE: 07/21/20 12:41



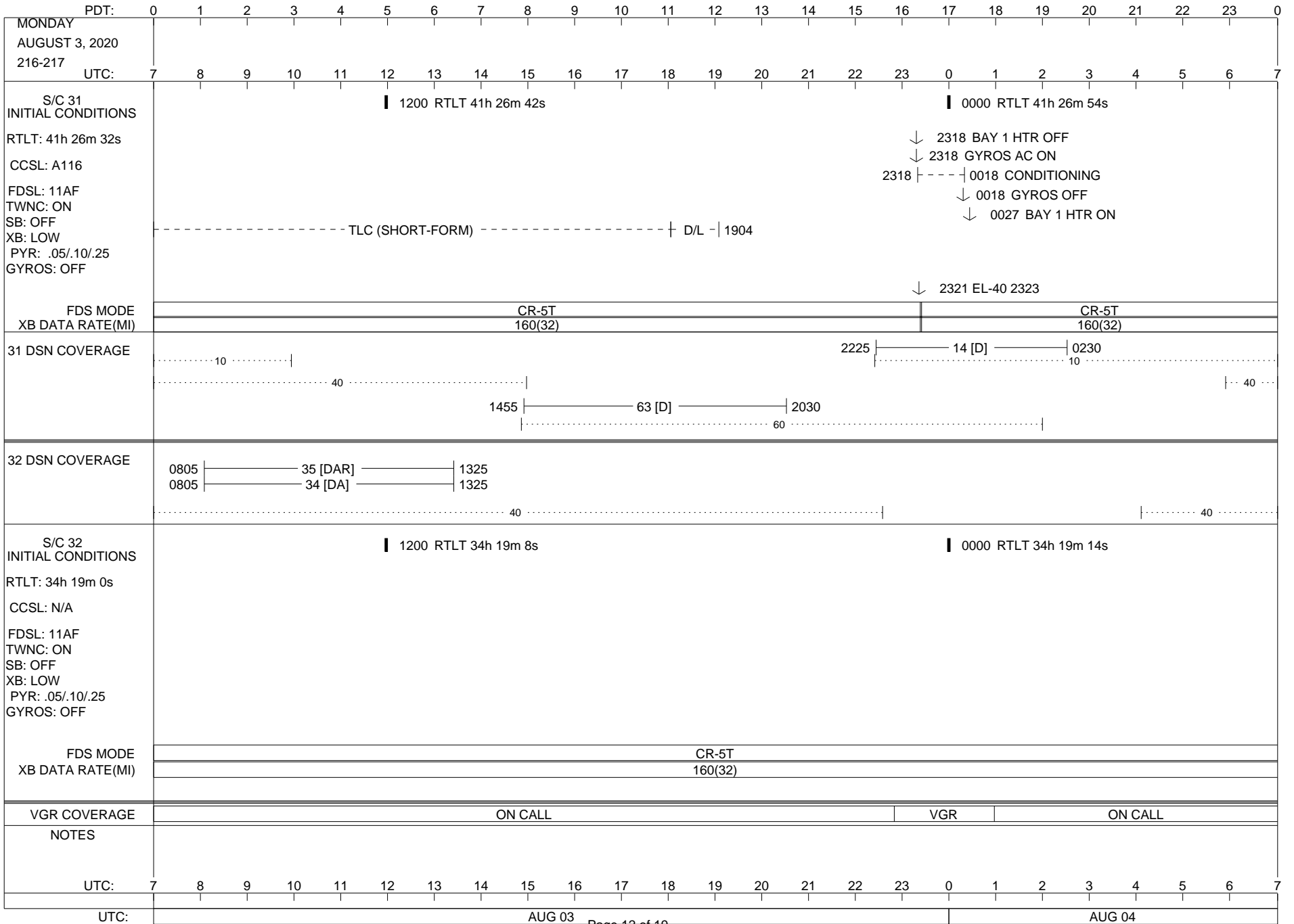
ISSUE DATE: 07/21/20 12:41



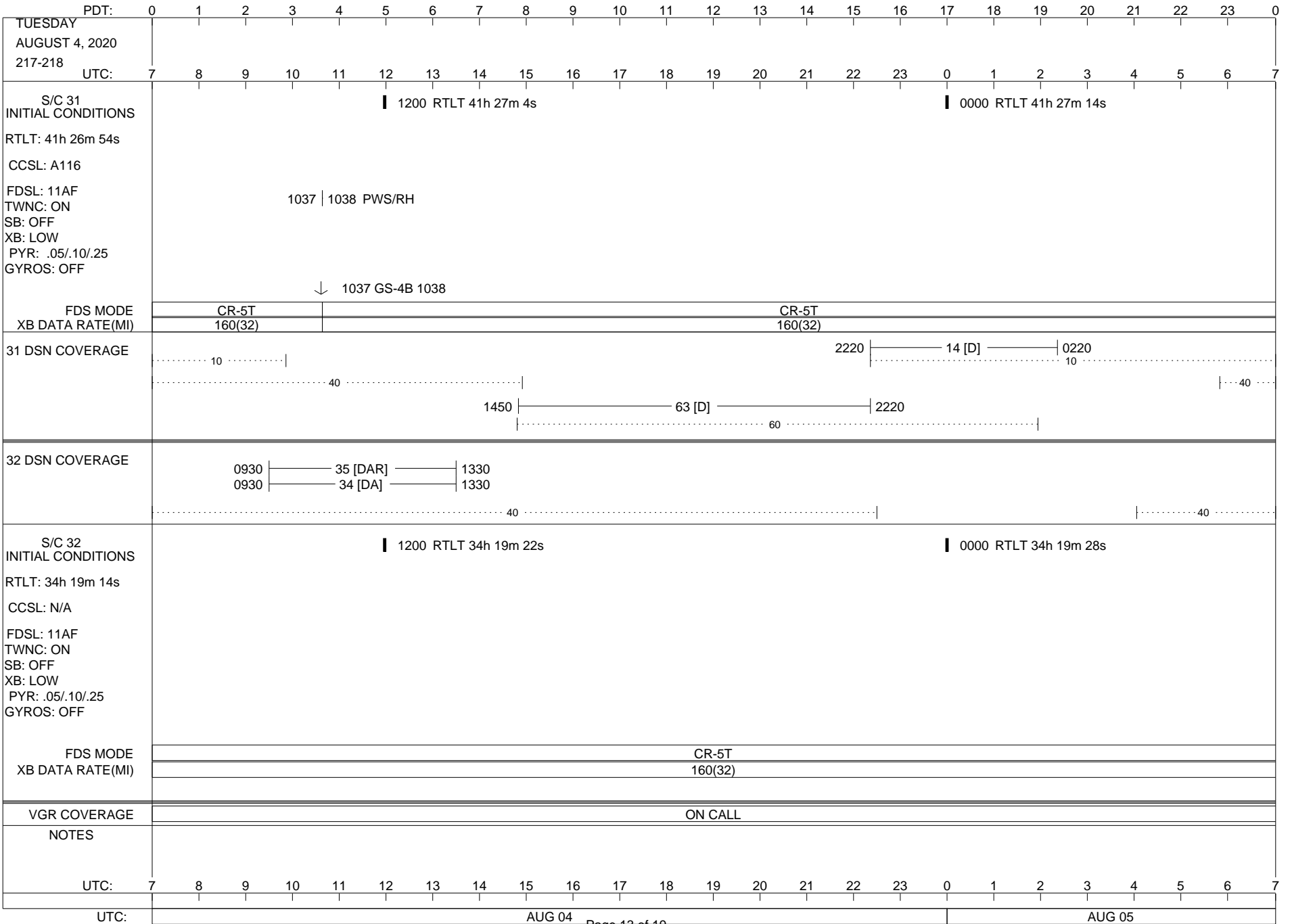
ISSUE DATE: 07/21/20 12:41



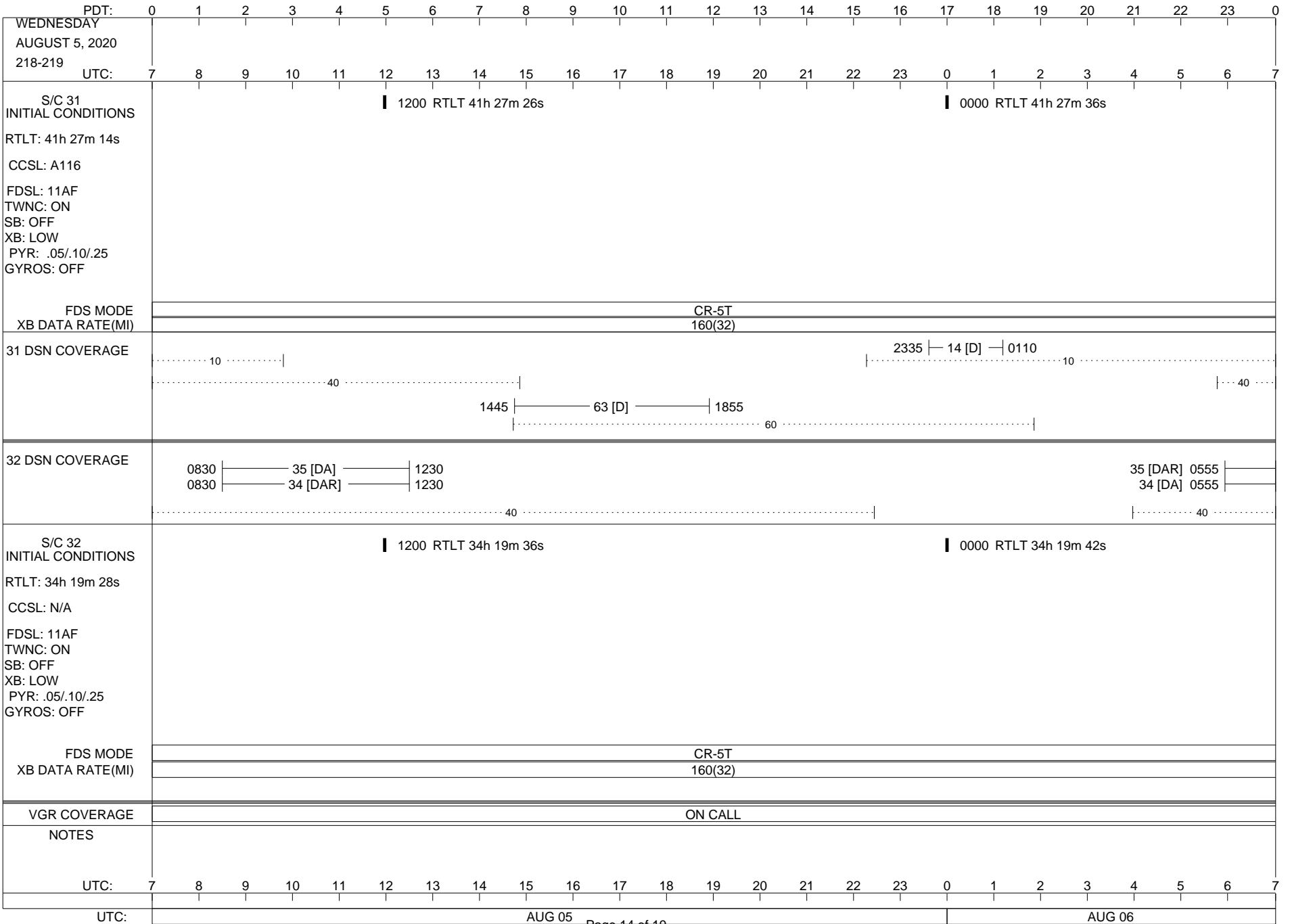
ISSUE DATE: 07/21/20 12:41



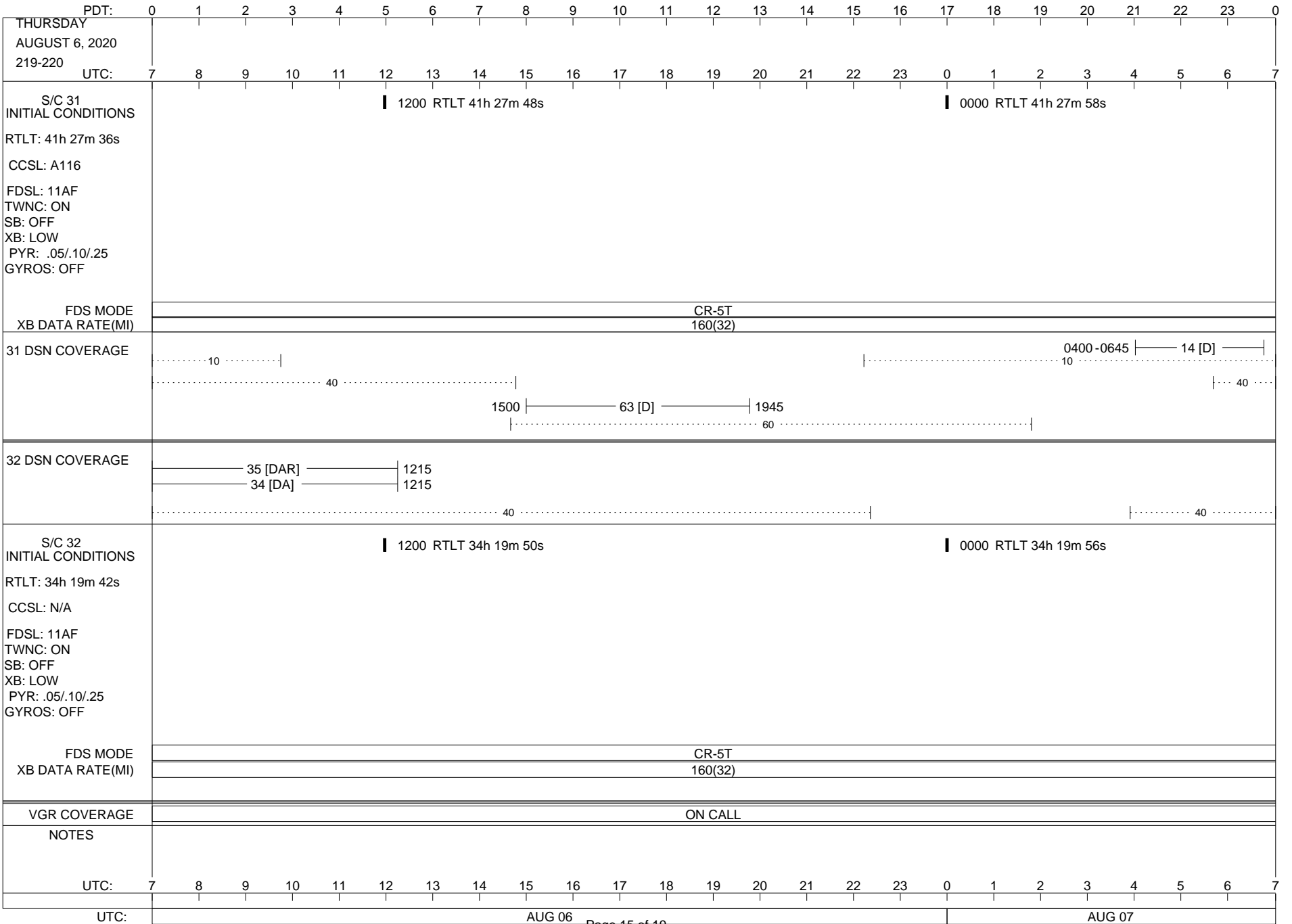
ISSUE DATE: 07/21/20 12:41



ISSUE DATE: 07/21/20 12:41

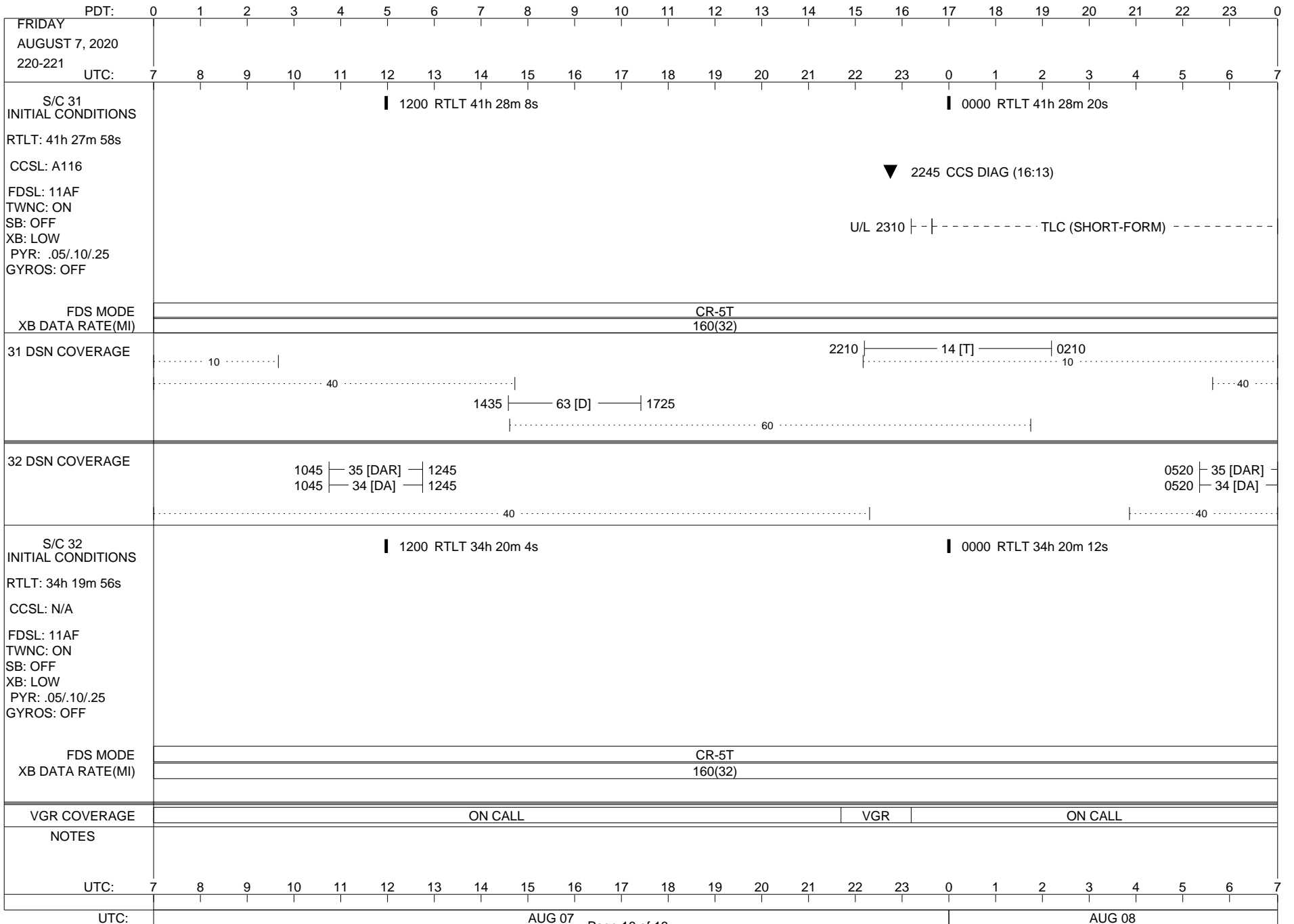


ISSUE DATE: 07/21/20 12:41





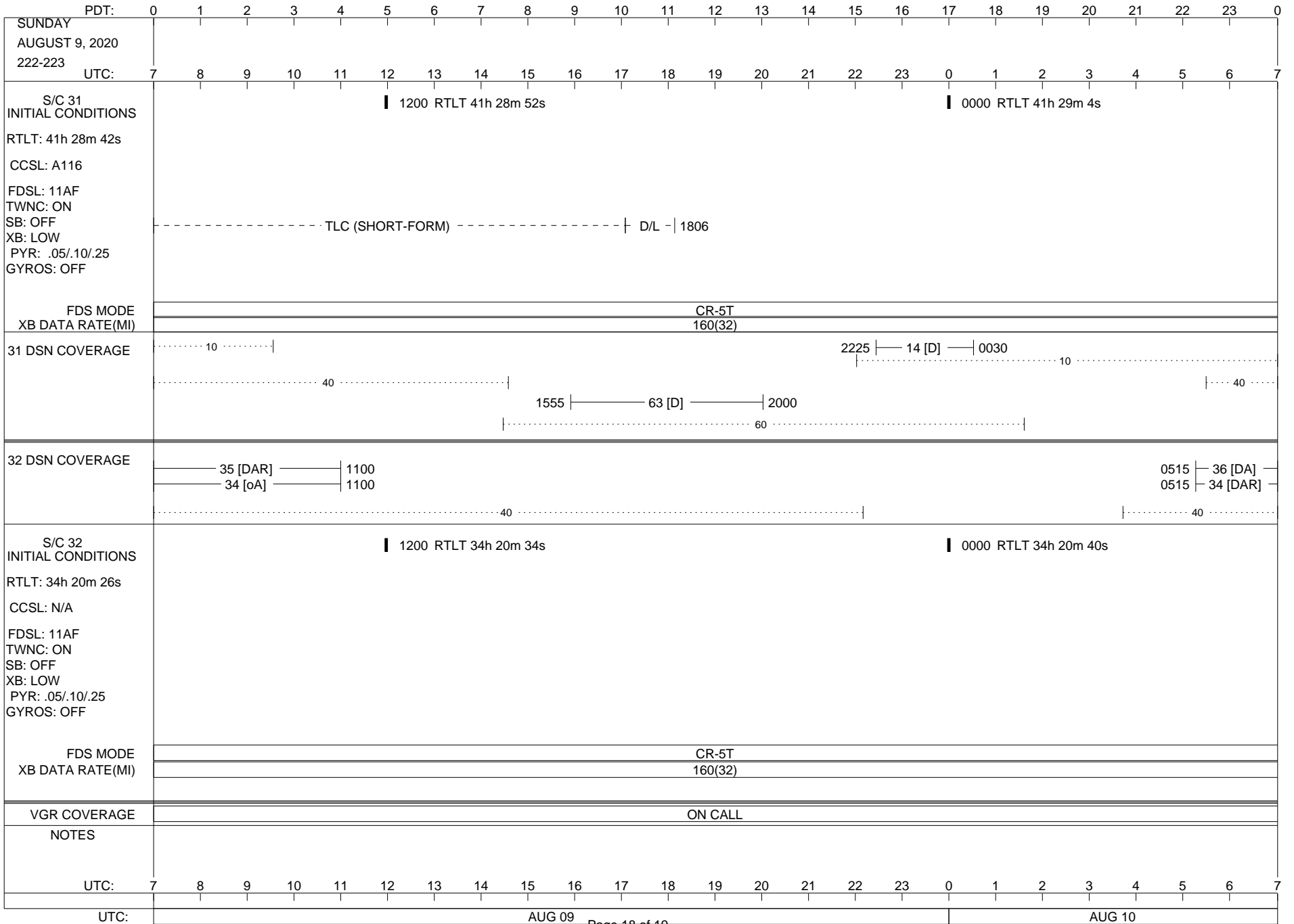
ISSUE DATE: 07/21/20 12:41



ISSUE DATE: 07/21/20 12:41

PDT:	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 AUGUST 8, 2020 221-222																												
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: 41h 28m 20s CCSL: A116 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 41h 28m 30s												0000 RTLT 41h 28m 42s															
----- TLC (SHORT-FORM) -----																												
FDS MODE													CR-5T															
XB DATA RATE(MI)													160(32)															
31 DSN COVERAGE	..... 10 .....										..... 10 .....																	
	..... 40 .....										..... 40 .....																	
											1645  ----- 63 [D] -----  1935																	
											..... 60 .....																	
32 DSN COVERAGE	--- 35 [DAR] ---  0920																				0535   35 [DAR]							
	--- 34 [DA] ---  0920																				0535   34 [oA]							
	..... 40 .....										..... 40 .....																	
S/C 32 INITIAL CONDITIONS RTLT: 34h 20m 12s CCSL: N/A FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 34h 20m 18s												0000 RTLT 34h 20m 26s															
FDS MODE													CR-5T															
XB DATA RATE(MI)													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:	AUG 08														AUG 09													

ISSUE DATE: 07/21/20 12:41



ISSUE DATE: 07/21/20 12:41

PDT:	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 AUGUST 10, 2020 223-224	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: 41h 29m 4s CCSL: A116 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 41h 29m 14s																										
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																										
31 DSN COVERAGE	<p>..... 10 ..... </p> <p>..... 40 ..... </p> <p>1435  ----- 63 [D] -----  1855</p>																										
32 DSN COVERAGE	<p>--- 36 [DA] ---  0915</p> <p>--- 34 [DAR] ---  0915</p> <p>1635   34 [DA]   1805</p> <p>1635   35 [DAR]   1805</p> <p>..... 40 ..... </p>																										
S/C 32 INITIAL CONDITIONS RTLT: 34h 20m 40s CCSL: N/A FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 34h 20m 48s																										
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:	AUG 10														AUG 11												