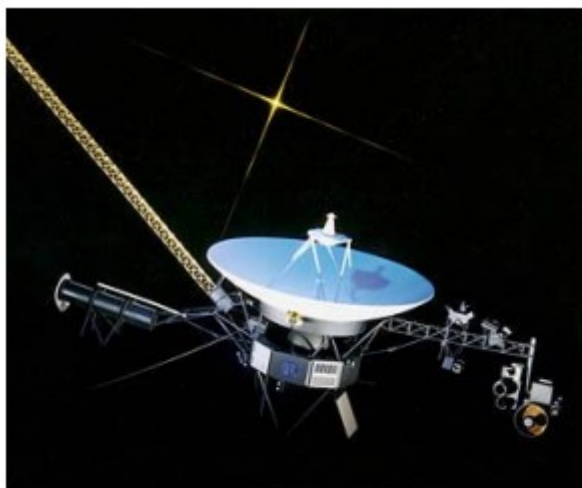


# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: June 25, 2019

For the Period: 06/27/19 to 07/22/19 (19/178 – 19/203)



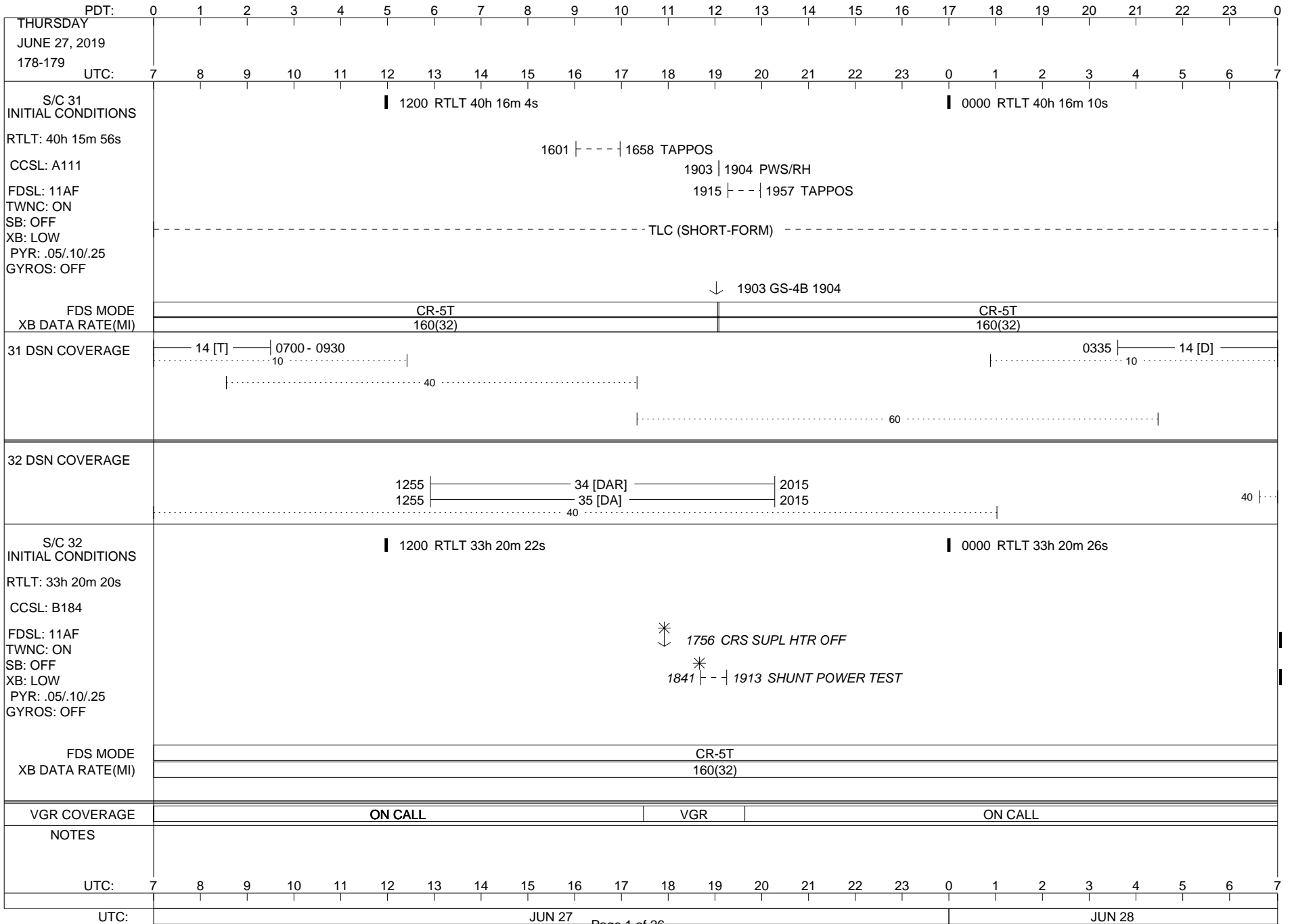
Posted at <https://voyager.jpl.nasa.gov/mission/status/>

**LEGEND:**

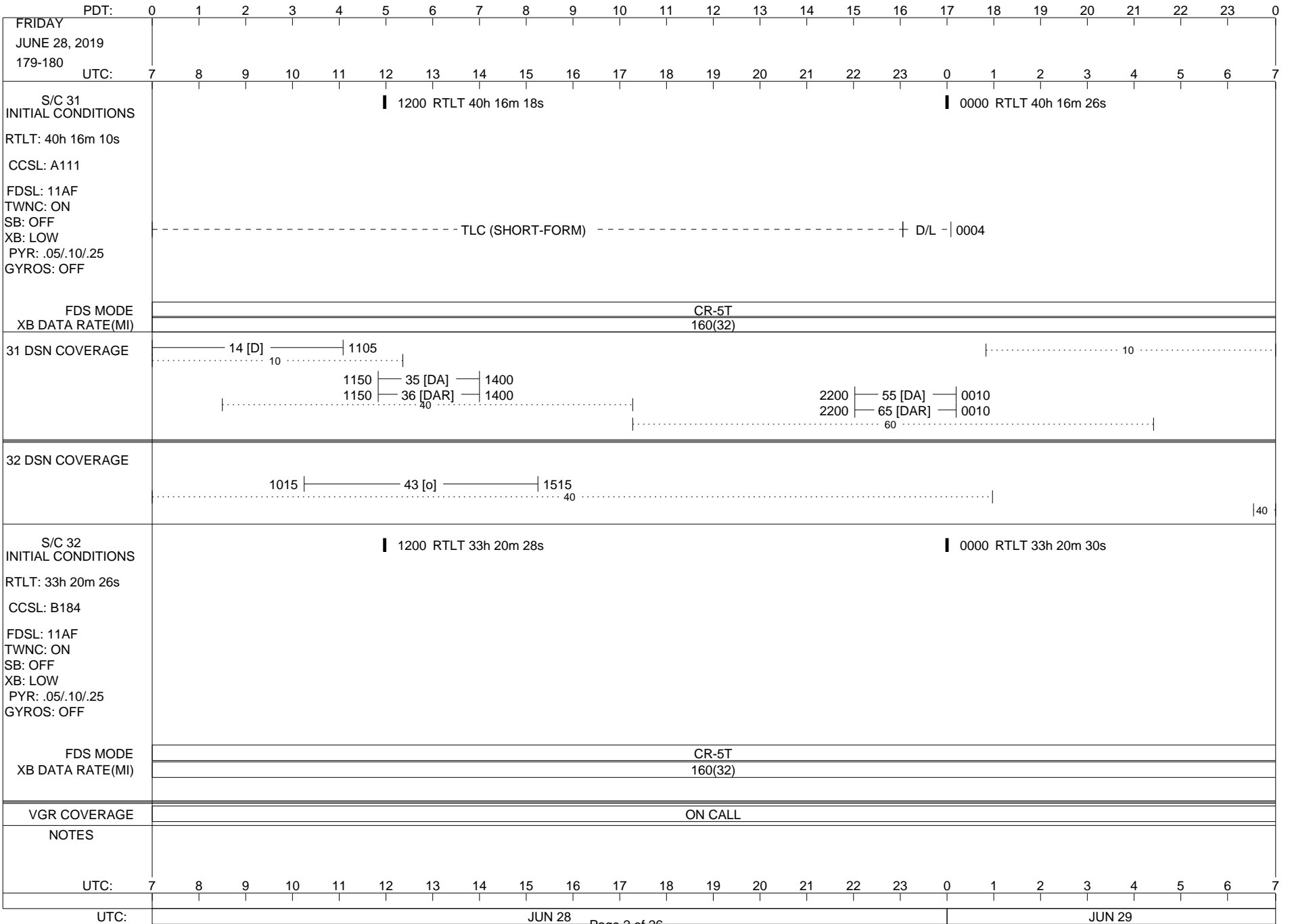
∇ = R/T Command (Last chance or Contingency)  
▼ = R/T Command (Scheduled)  
\* = Result of R/T Command  
n = (where n = 1,2,3 ..) Special Note, see bottom of page  
A = Arrayed station  
B = BLF  
D = Downlink only pass  
H = High Power Transmitter  
R = Array Reference Antenna  
T = TLC Uplink  
U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

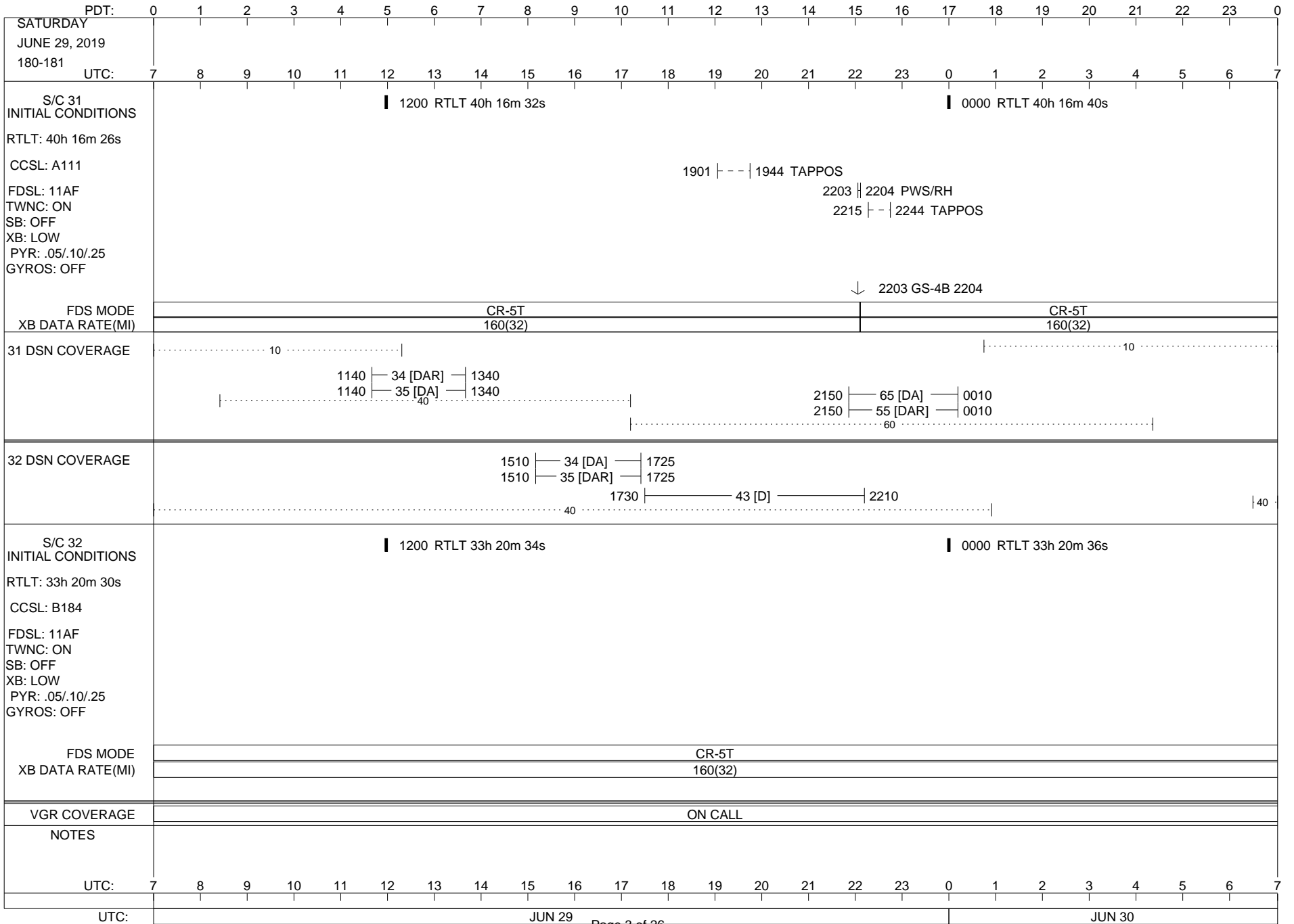
02/27/19

ISSUE DATE: 07/10/19 11:48

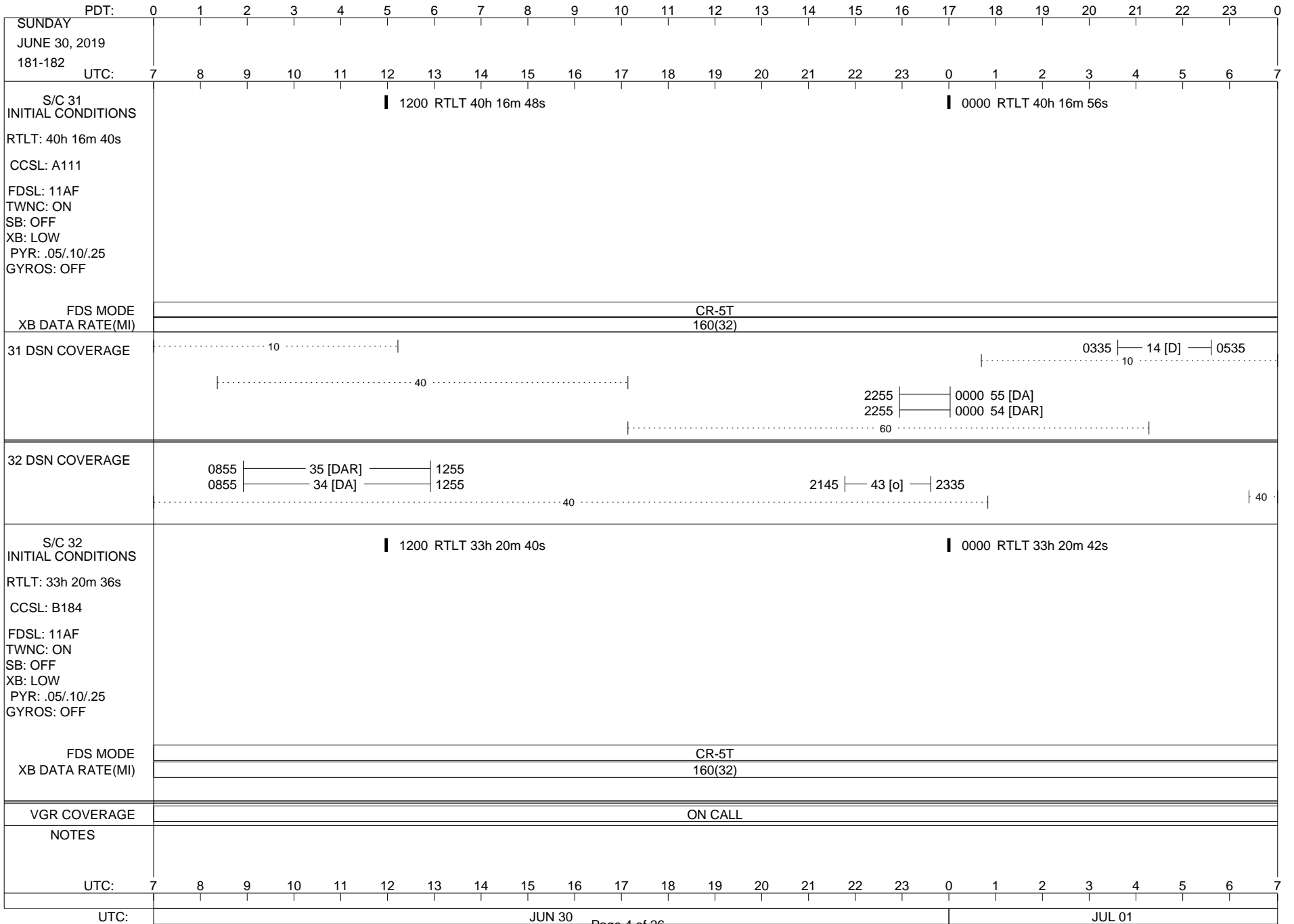


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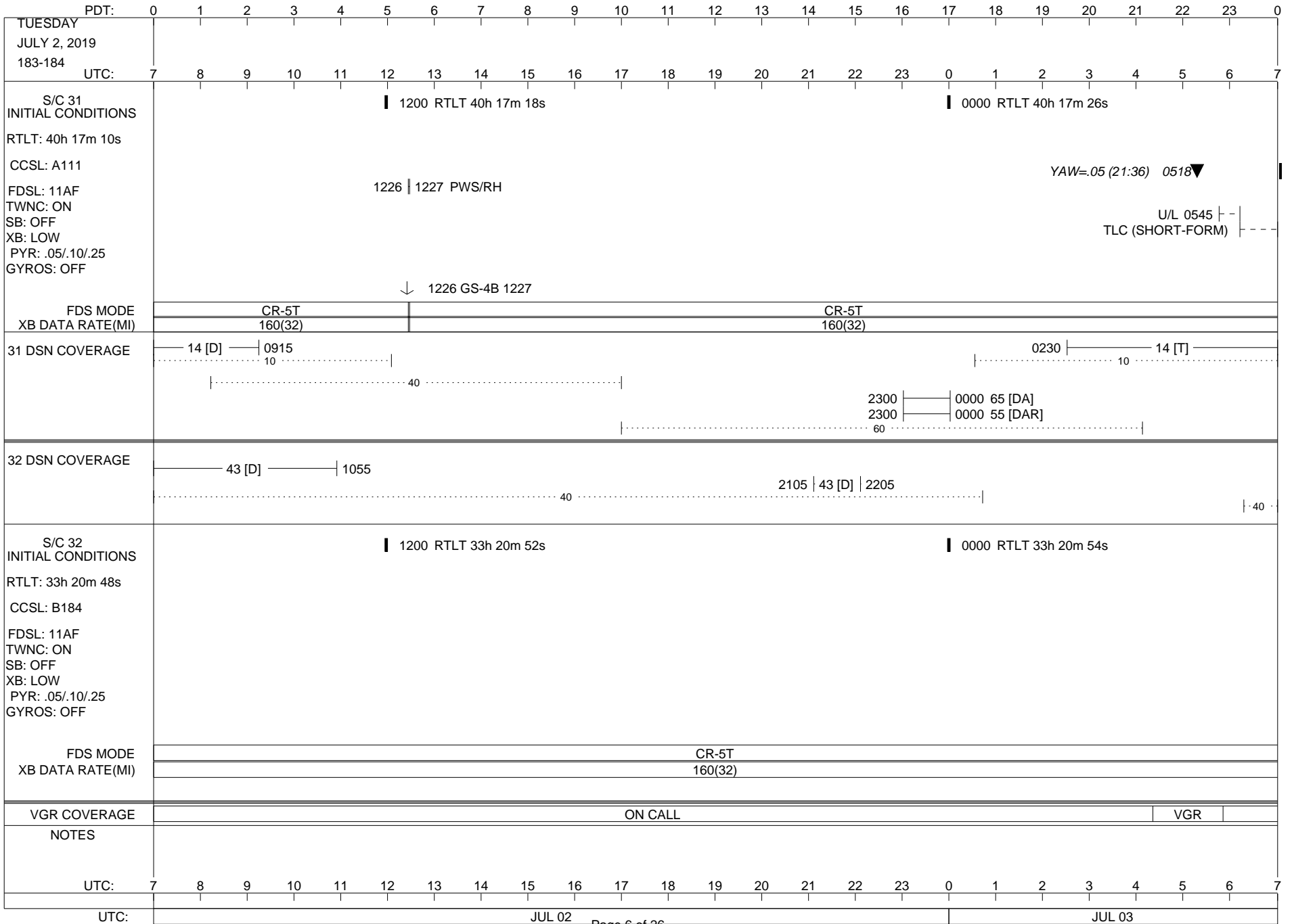
ISSUE DATE: 07/10/19 11:48



ISSUE DATE: 07/10/19 11:48

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S/C 31 INITIAL CONDITIONS RTLT: 40h 16m 56s CCSL: A111 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 40h 17m 2s												█ 0000 RTLT 40h 17m 10s															
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																											
31 DSN COVERAGE	.....   .....   .....										.....   .....   .....																	
	10										10																	
	40										40																	
											0510   14 [D]																	
											2230   55 [DA]   0000 2230   54 [DAR]   0000 60																	
32 DSN COVERAGE	0810   43 [B]   1225										43 [D] 0630																	
	40										40																	
S/C 32 INITIAL CONDITIONS RTLT: 33h 20m 42s CCSL: B184 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 33h 20m 46s												█ 0000 RTLT 33h 20m 48s															
	▼ 1152 DUMMY (5 MIN BRACKETED 21:13)																											
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 01														JUL 02													

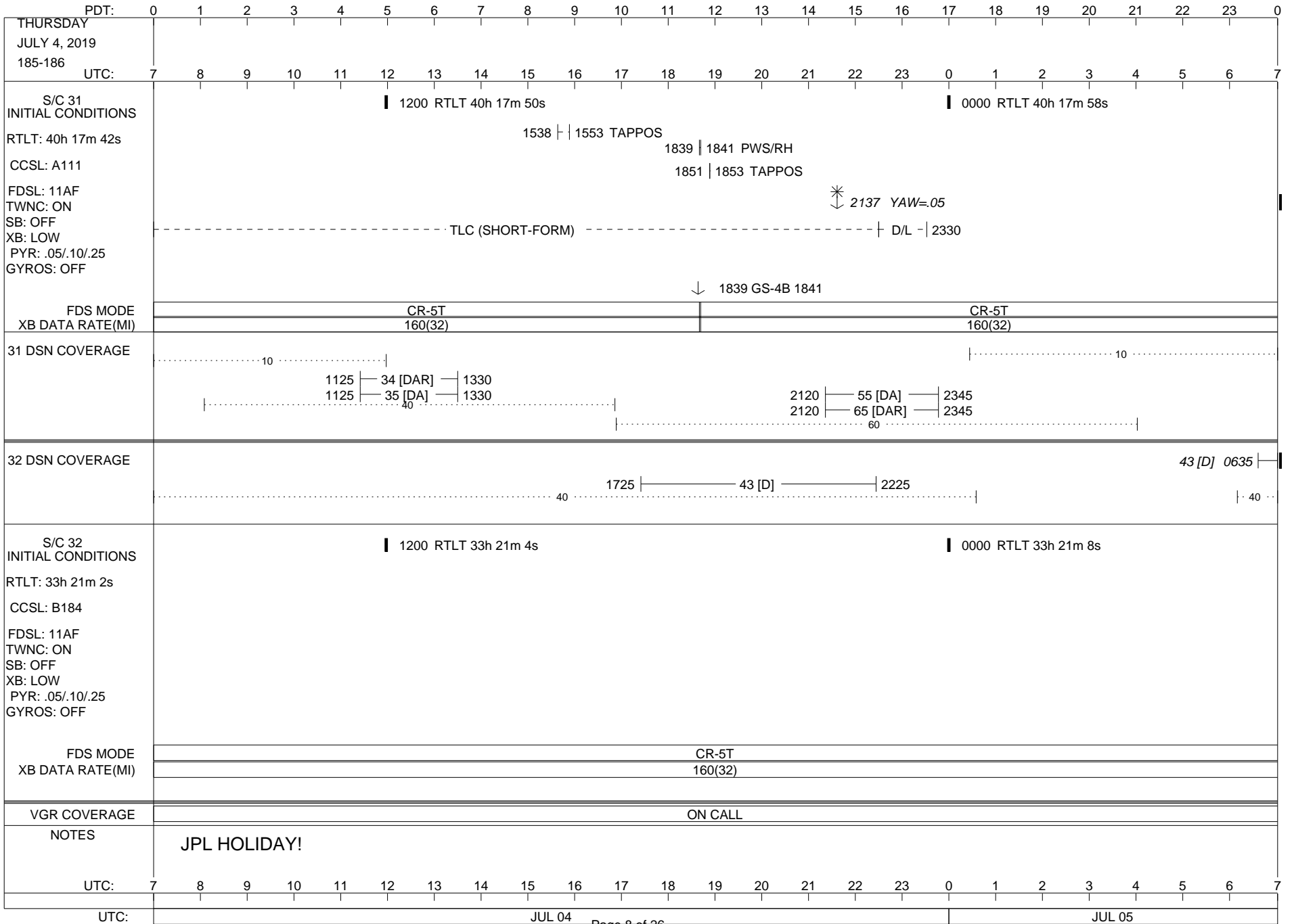
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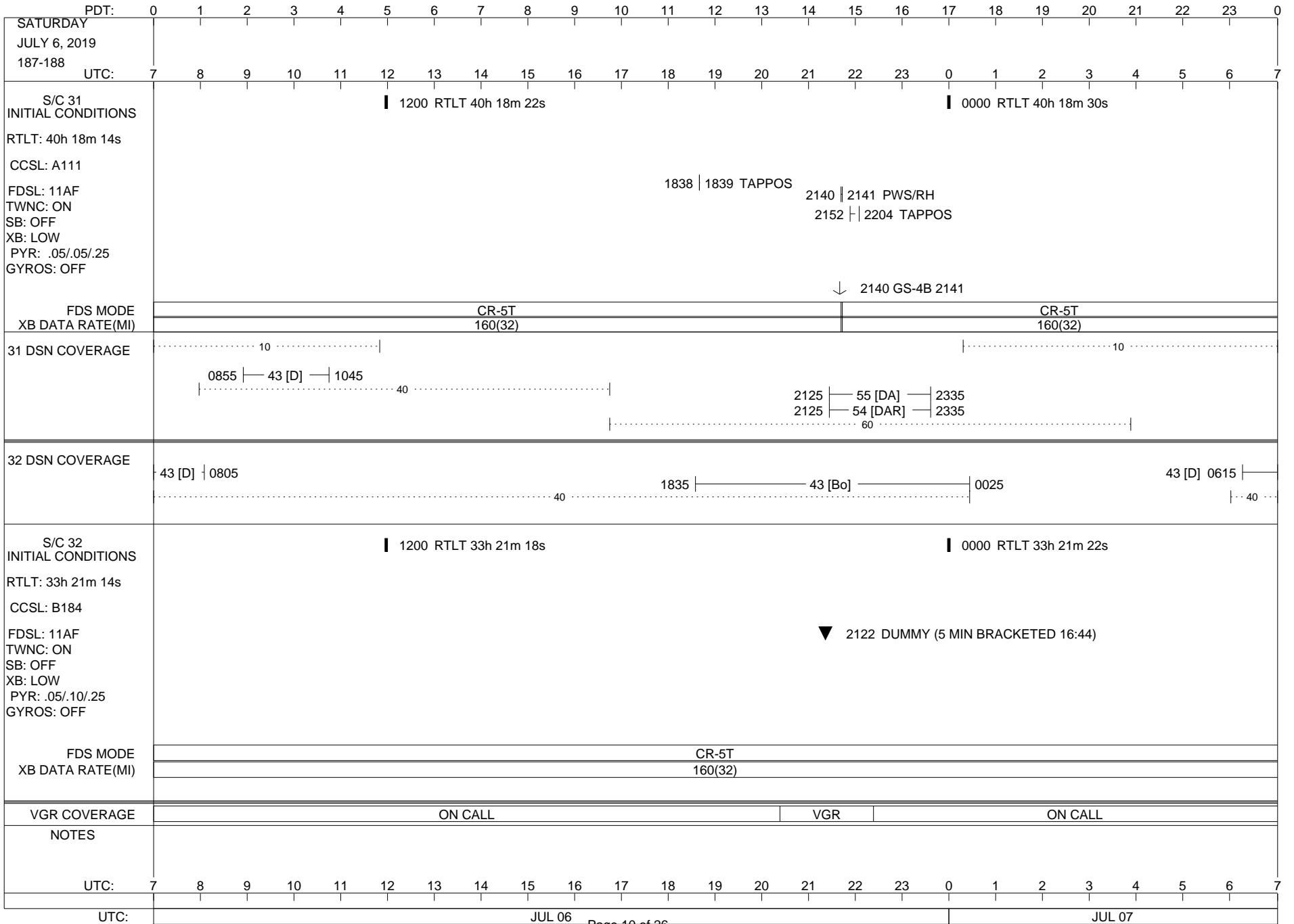
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WEDNESDAY JULY 3, 2019 184-185	UTC: 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLTL: 40h 17m 26s CCSL: A111 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 17m 34s												0000 RTLT 40h 17m 42s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
31 DSN COVERAGE	14 [T]   0805 .....   .....40.....   .....60.....												0215- 0615  .....14 [D].....   .....10.....												
32 DSN COVERAGE	0810   34 [DAR]   1045 0810   35 [DA]   1045 .....40.....												1850   43 [D]   2250  .....40.....												
S/C 32 INITIAL CONDITIONS RTLTL: 33h 20m 54s CCSL: B184 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 20m 58s												0000 RTLT 33h 21m 2s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE	ON CALL																								
NOTES	JPL HOLIDAY!																								
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
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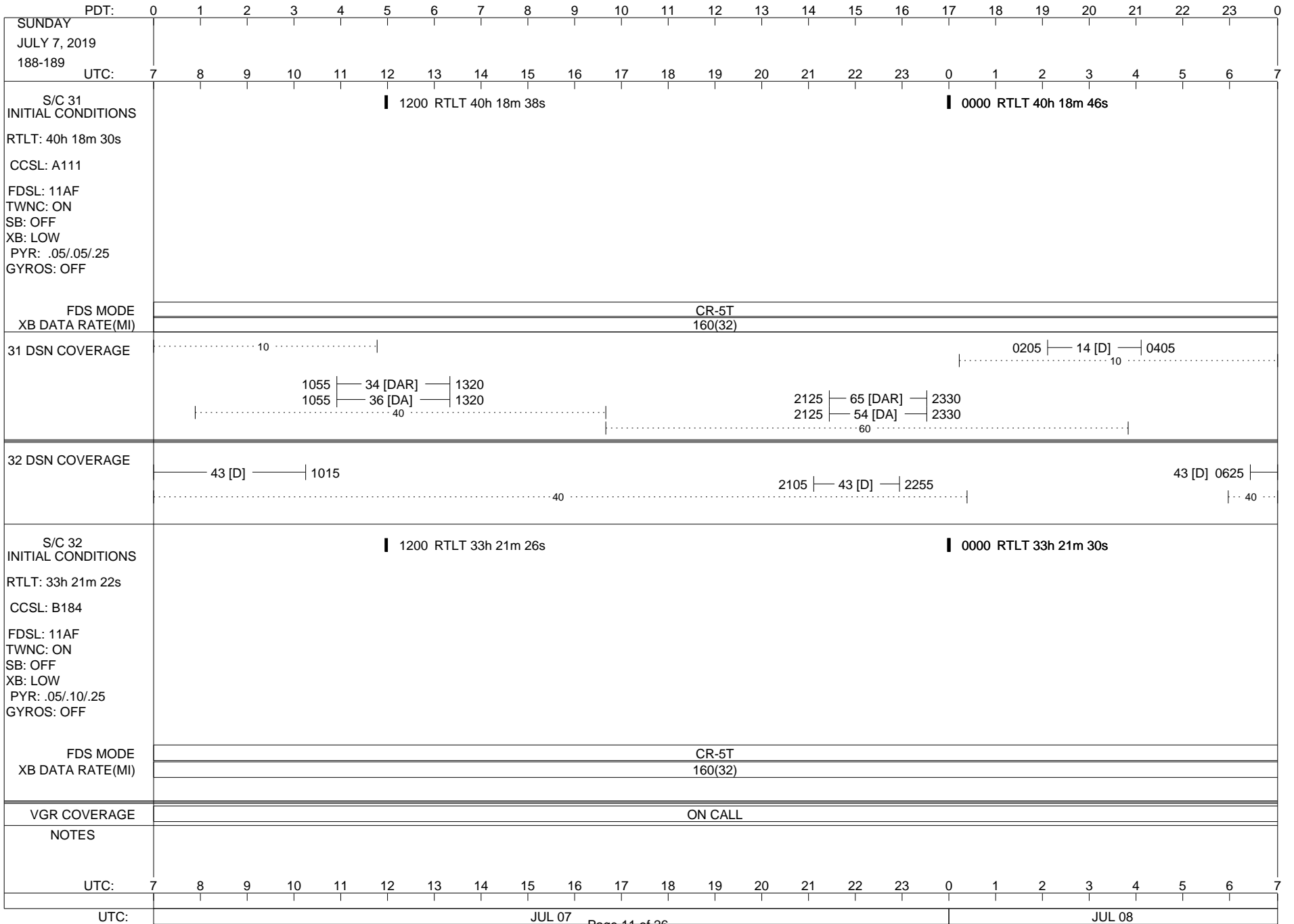


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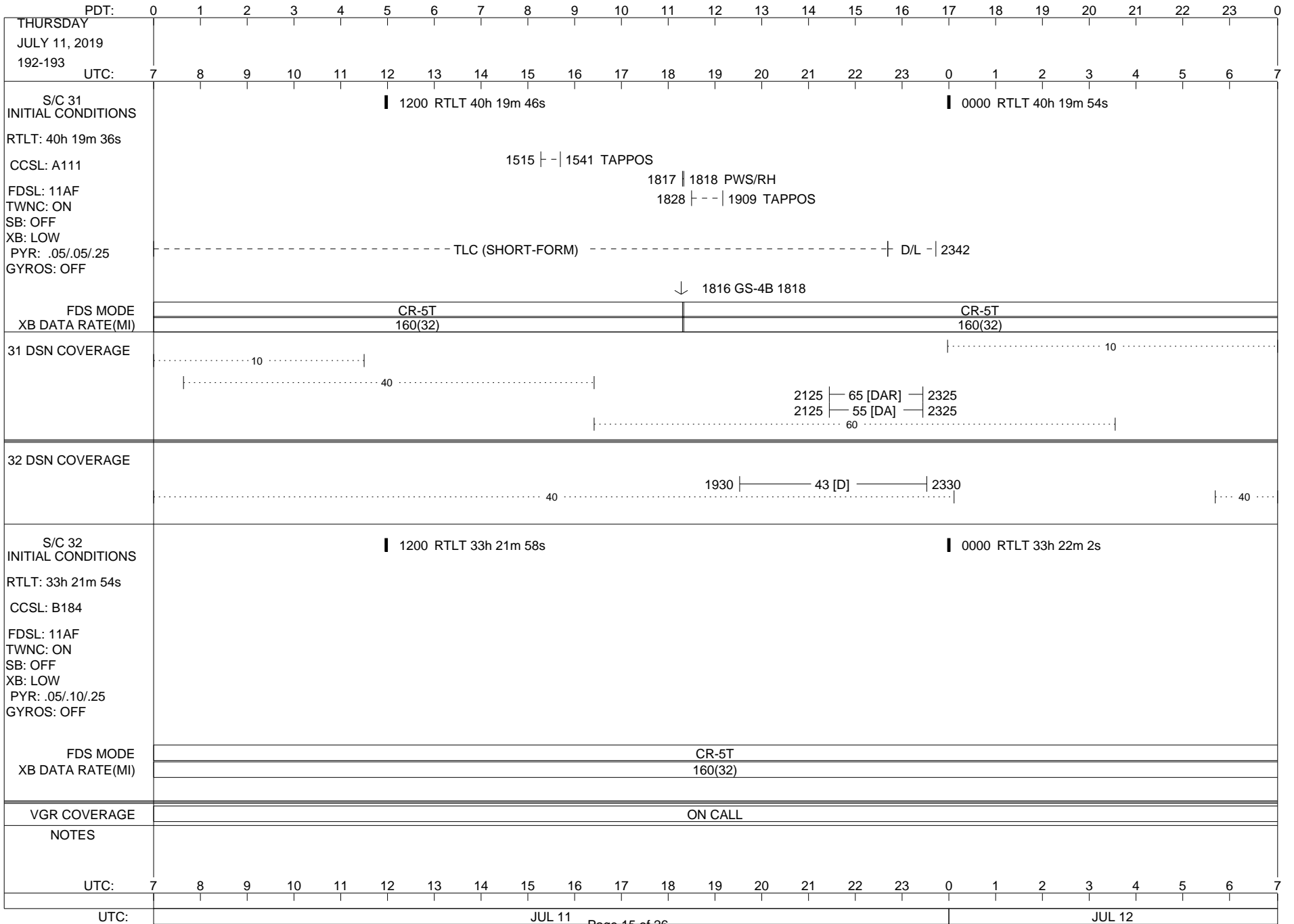




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MONDAY JULY 8, 2019 189-190																																								
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7															
S/C 31 INITIAL CONDITIONS RTLT: 40h 18m 46s CCSL: A111 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.05/.25 GYROS: OFF						█ 1200 RTLT 40h 18m 54s												█ 0000 RTLT 40h 19m 2s																						
FDS MODE														CR-5T																										
XB DATA RATE(MI)														160(32)																										
31 DSN COVERAGE	..... 10 .....										..... 40 .....										..... 60 .....										..... 10 .....									
32 DSN COVERAGE	----- 43 [D] -----										1225										..... 40 .....										... 40 ...									
S/C 32 INITIAL CONDITIONS RTLT: 33h 21m 30s CCSL: B184 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	0754	█ 1200 RTLT 33h 21m 34s										----- COMMAND MORATORIUM -----										█ 0000 RTLT 33h 21m 38s																		
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:	JUL 08													JUL 09																										



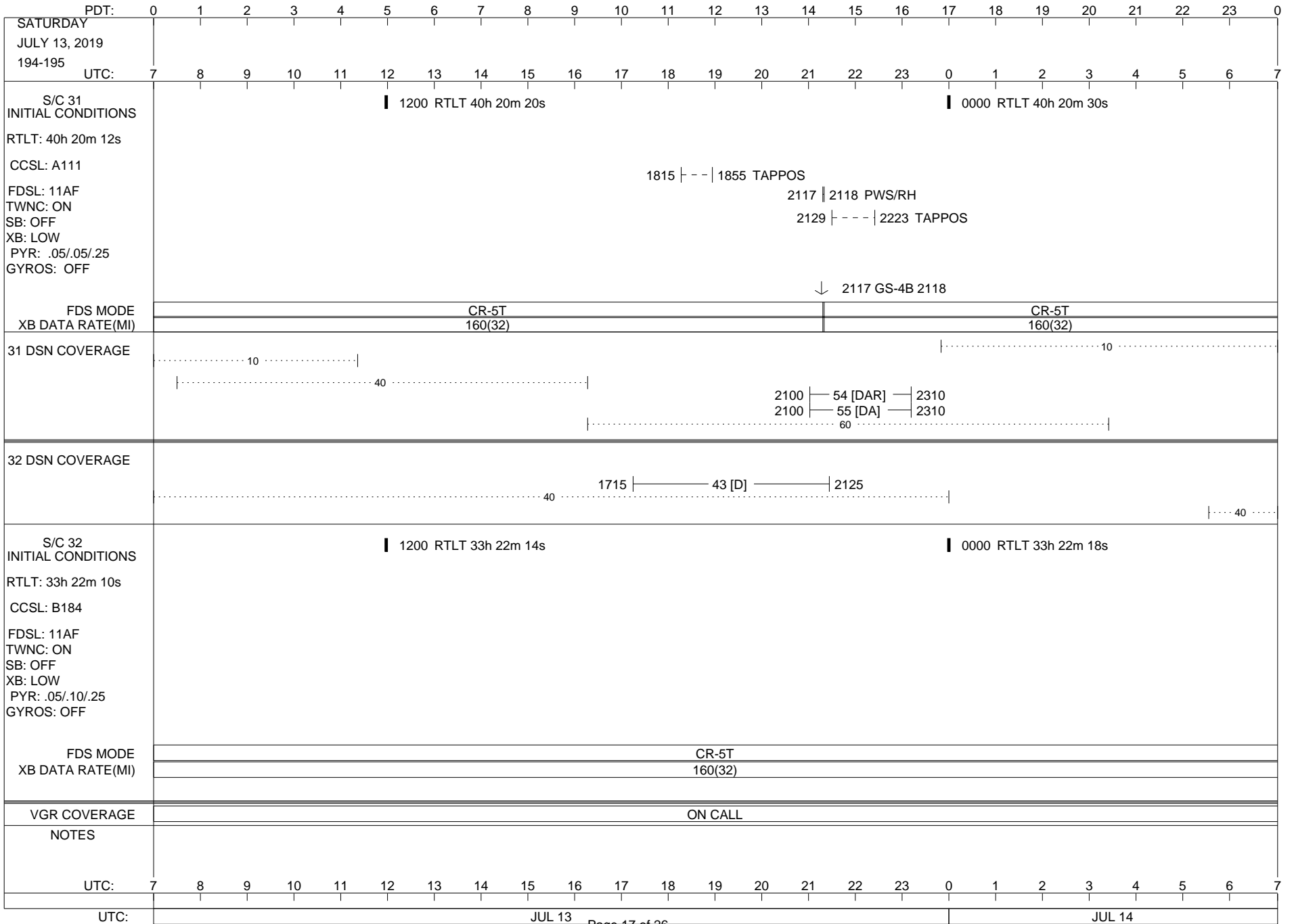
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S/C 31 INITIAL CONDITIONS RTLT: 40h 19m 20s CCSL: A111 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.05/.25 GYROS: OFF						1200												0000							
FDS MODE																									
XB DATA RATE(MI)																									
31 DSN COVERAGE																									
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS RTLT: 33h 21m 46s CCSL: B184 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						1200												0000							
FDS MODE																									
XB DATA RATE(MI)																									
VGR COVERAGE																									
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:																									





ISSUE DATE: 07/10/19 11:48

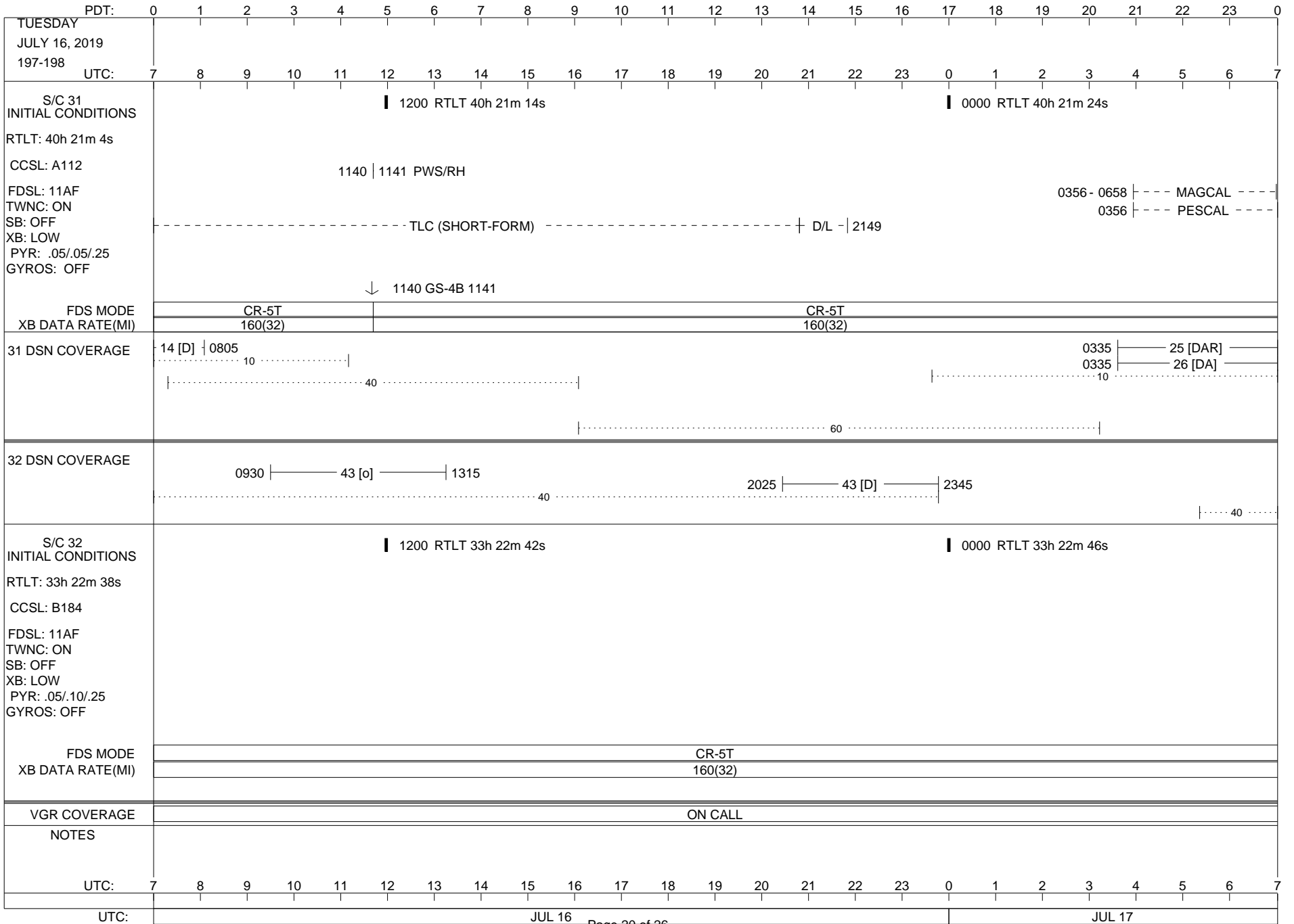
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FRIDAY JULY 12, 2019 193-194																													
S/C 31 INITIAL CONDITIONS RTLT: 40h 19m 54s CCSL: A111 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.05/.25 GYROS: OFF		1200 RTLT 40h 20m 2s												0000 RTLT 40h 20m 12s															
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)															
31 DSN COVERAGE		..... 10 .....										0105  ----- 14 [D] -----  0455  ----- 10 -----																	
		----- 40 -----										2115  --- 65 [DA] ---  2315 2115  --- 55 [DAR] ---  2315  ----- 60 -----																	
32 DSN COVERAGE		0815  ----- 43 [o] -----  1320										2045  --- 43 [D] ---  2215  ----- 40 -----																	
S/C 32 INITIAL CONDITIONS RTLT: 33h 22m 2s CCSL: B184 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLT 33h 22m 6s												0000 RTLT 33h 22m 10s															
		* ↓ 0730 GYROS OFF												* ↓ 0738 BAY 1 HTR ON															
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)															
VGR COVERAGE		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 12														JUL 13													



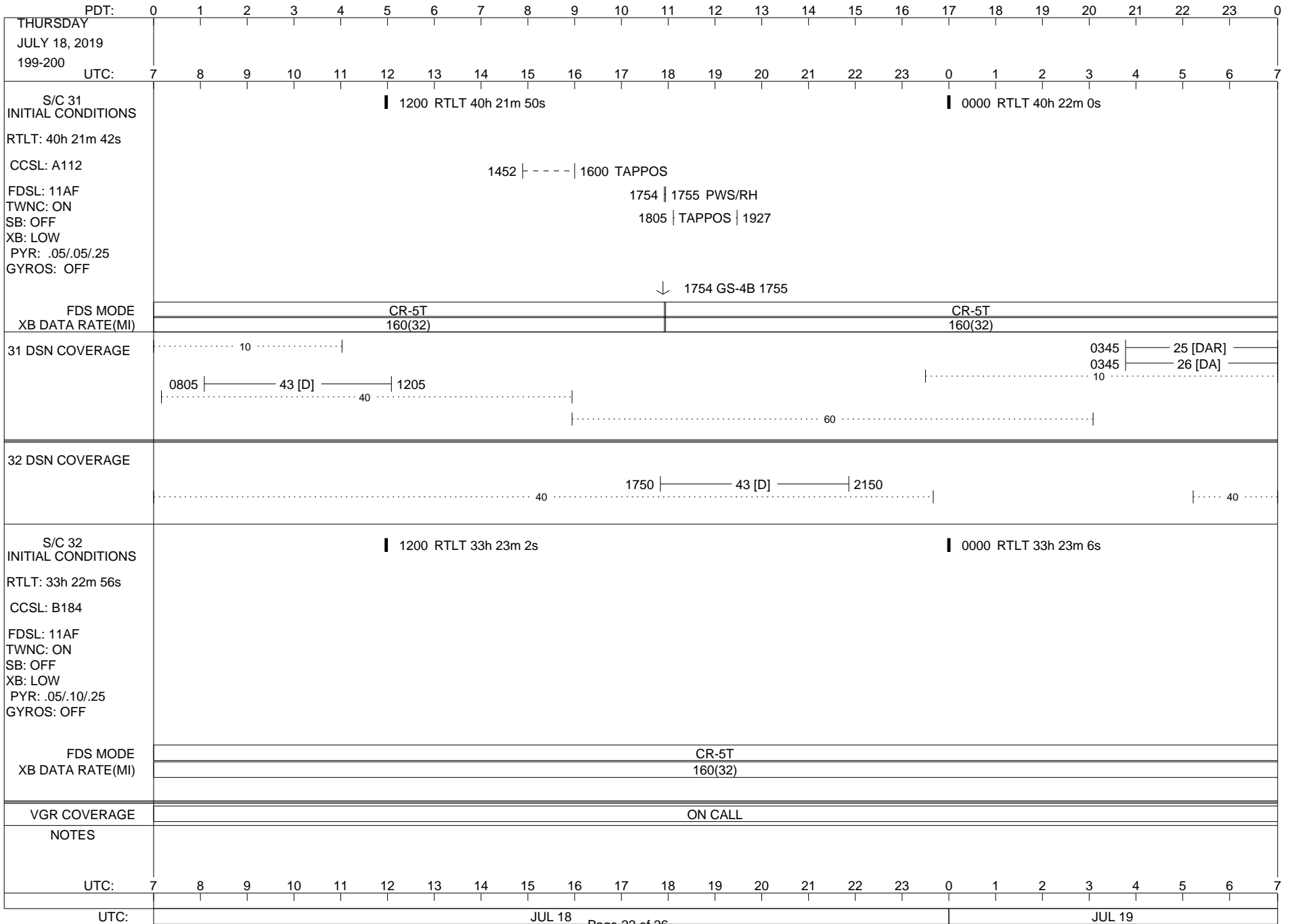
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S/C 31 INITIAL CONDITIONS RTLTL: 40h 20m 30s CCSL: A111 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.05/.25 GYROS: OFF	1200 RTLTL 40h 20m 38s												0000 RTLTL 40h 20m 46s													
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)													
31 DSN COVERAGE	.....10.....												.....0210 -----14 [T]----- 0555													
	-----43 [D]----- 0720 - 1120												-----40-----													
													-----60-----													
32 DSN COVERAGE													1340  -----34 [DAR]----- 1930 1340  -----35 [DA]----- 1930													
													-----40-----													
S/C 32 INITIAL CONDITIONS RTLTL: 33h 22m 18s CCSL: B184 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 33h 22m 24s												0000 RTLTL 33h 22m 28s													
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 14													JUL 15												

ISSUE DATE: 07/10/19 11:48

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
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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: 40h 20m 46s CCSL: A111 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.05/.25 GYROS: OFF	█ 1200 RTLTL 40h 20m 56s												█ 0000 RTLTL 40h 21m 4s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	..... 10 .....												..... 0405  ----- 14 [D] -----												
	..... 40 .....												..... 10 .....												
	..... 60 .....												..... 60 .....												
32 DSN COVERAGE	----- 43 [D] ----- 0700- 1115												2030   43 [D]   2140												
	..... 40 .....												..... 40 .....												
S/C 32 INITIAL CONDITIONS RTLTL: 33h 22m 28s CCSL: B184 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 33h 22m 32s												█ 0000 RTLTL 33h 22m 38s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL												ON CALL												
NOTES																									
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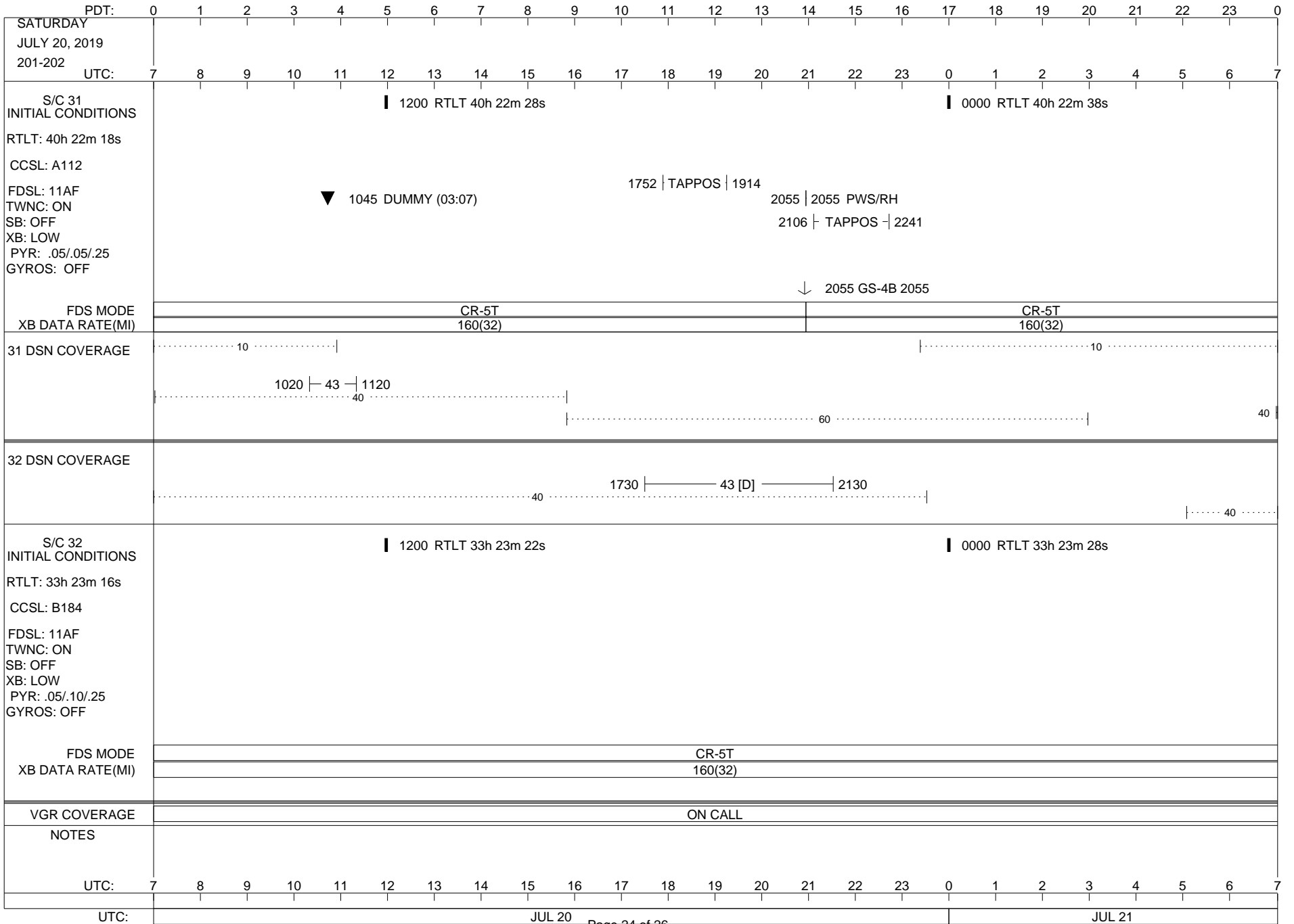


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S/C 31 INITIAL CONDITIONS RTLT: 40h 21m 24s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.05/.25 GYROS: OFF	1200 RTLT 40h 21m 32s												0000 RTLT 40h 21m 42s													
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
31 DSN COVERAGE	25 [DAR]   0855 26 [DA]   0855 .....10 ..... .....40 ..... .....60 .....												.....10 .....													
32 DSN COVERAGE	.....40 .....												1730   35 [DAR]   2140 1730   36 [DA]   2140 .....40 .....													
S/C 32 INITIAL CONDITIONS RTLT: 33h 22m 46s CCSL: B184 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 22m 52s												0000 RTLT 33h 22m 56s													
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
VGR COVERAGE	ON CALL												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 17													JUL 18												

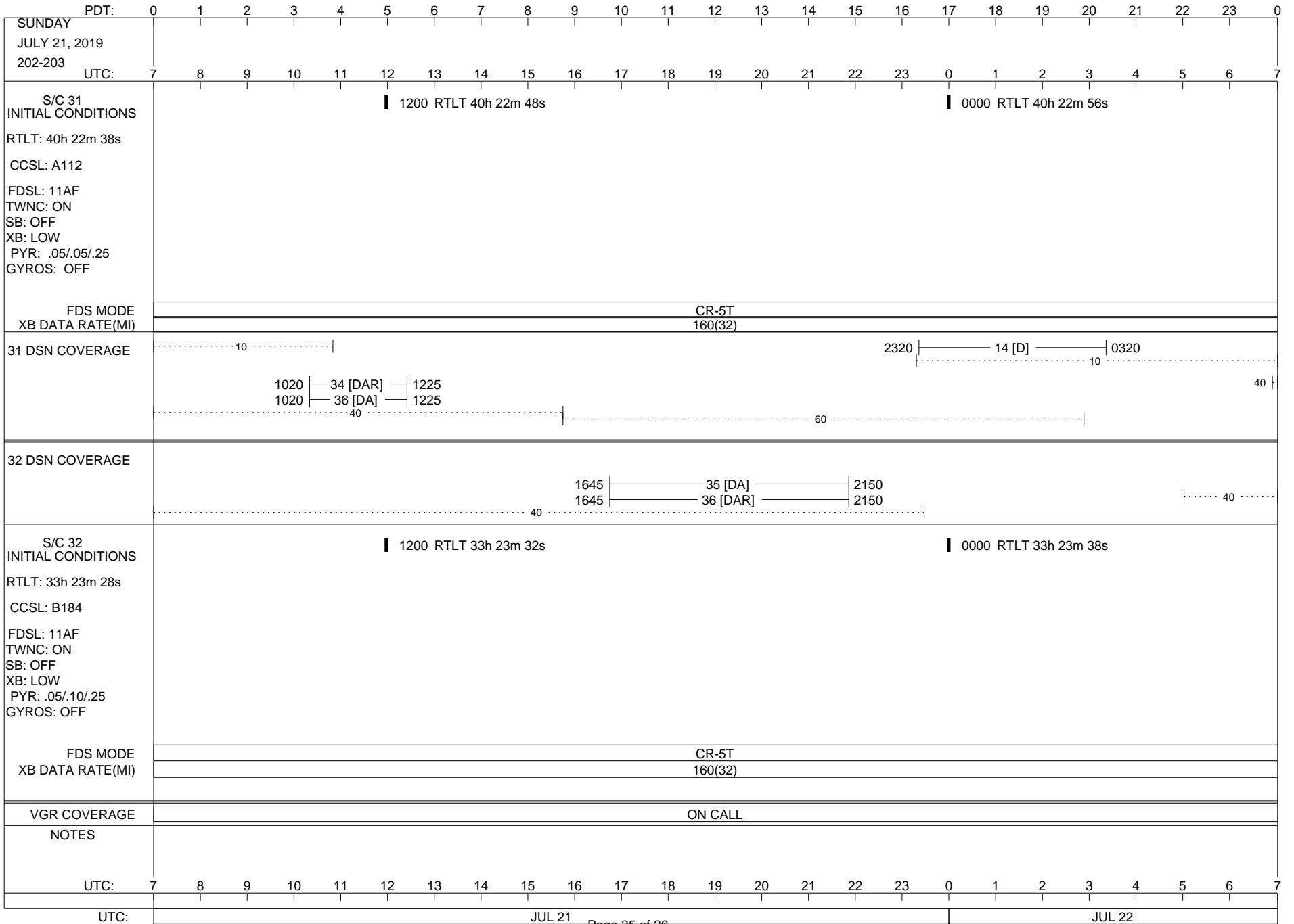


PDT:		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	
FRIDAY																											
JULY 19, 2019																											
200-201																											
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S/C 31 INITIAL CONDITIONS							█ 1200												█ 0000								
RTLT: 40h 22m 0s																											
CCSL: A112																											
FDSL: 11AF																											
TWNC: ON																											
SB: OFF																											
XB: LOW																											
PYR: .05/.05/.25																											
GYROS: OFF																											
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
31 DSN COVERAGE		0710 25 [DAR]																						10			
		0710 26 [DA]												40		2130 65 [DA]		2250		2130 60		2250 55 [DAR]					
32 DSN COVERAGE		0810		43 [Bo]		1210												40				40					
S/C 32 INITIAL CONDITIONS							█ 1200												█ 0000								
RTLT: 33h 23m 6s																											
CCSL: B184																											
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																											
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UTC:		JUL 19												JUL 20													





ISSUE DATE: 07/10/19 11:48



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MONDAY JULY 22, 2019 203-204																									
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: 40h 22m 56s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.05/.25 GYROS: OFF	1200 RTLT 40h 23m 6s																								
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
31 DSN COVERAGE	<p>..... 10 ..... </p> <p>..... 40 ..... </p>																								
32 DSN COVERAGE	<p> ----- 43 [o] -----  0730 - 1200</p> <p>..... 40 ..... </p>																								
S/C 32 INITIAL CONDITIONS RTLT: 33h 23m 38s CCSL: B184 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 23m 44s																								
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:	JUL 22												JUL 23												