

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: June 2, 2021

For the Period: 06/03/21 to 06/21/21 (21/147 – 21/165)



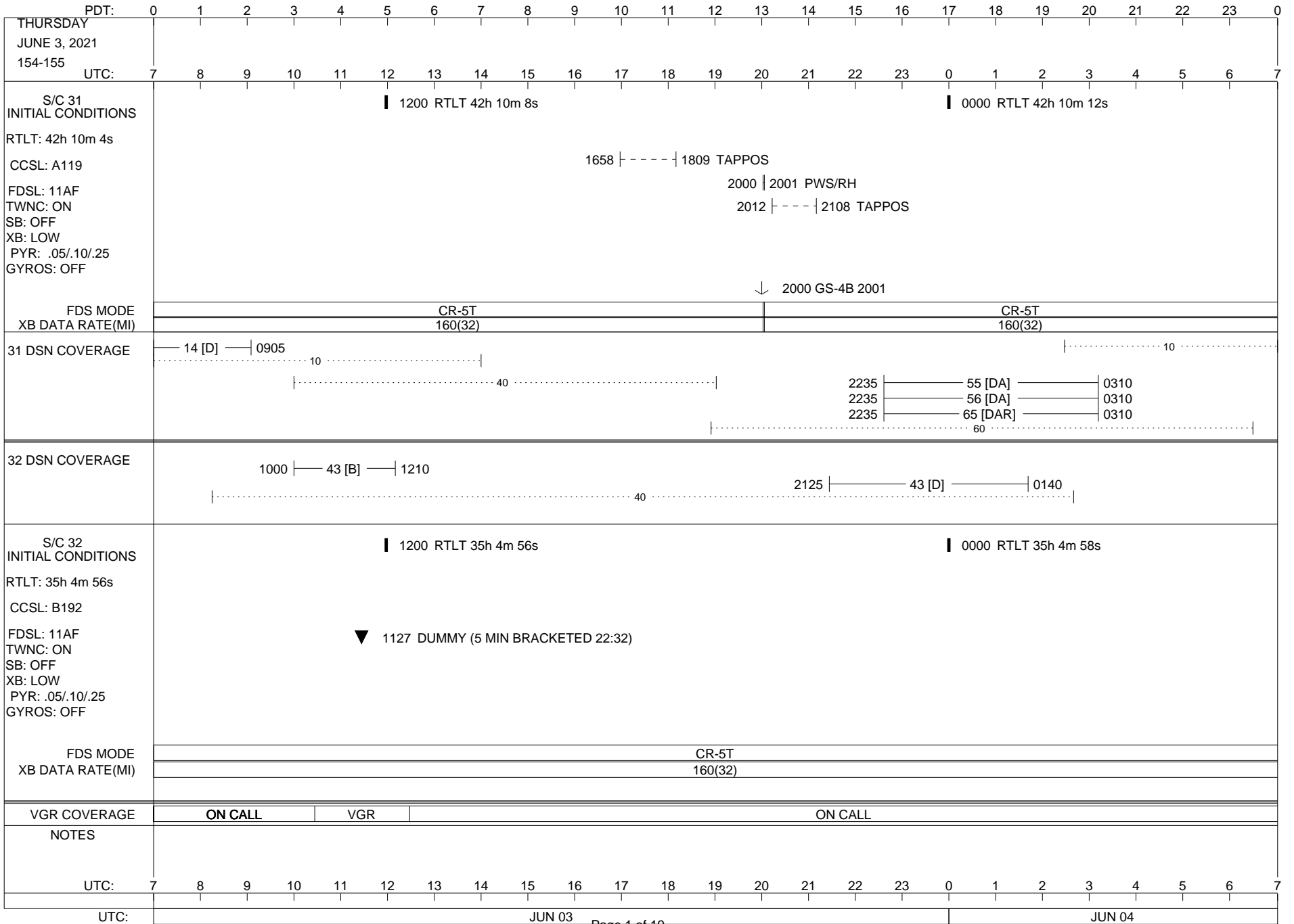
Posted at <https://voyager.jpl.nasa.gov/mission/status/>

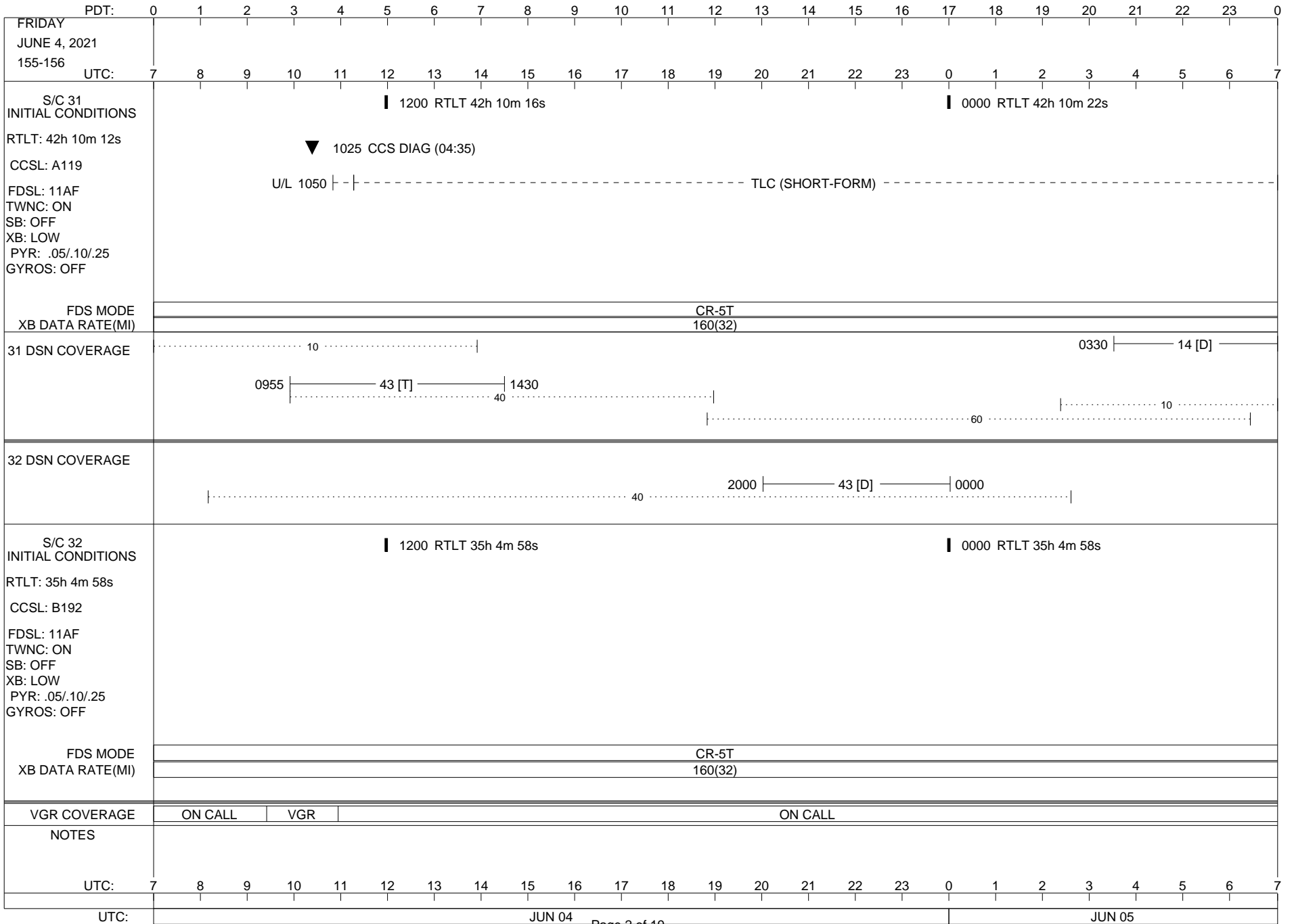
**LEGEND:**

- ▽ = 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

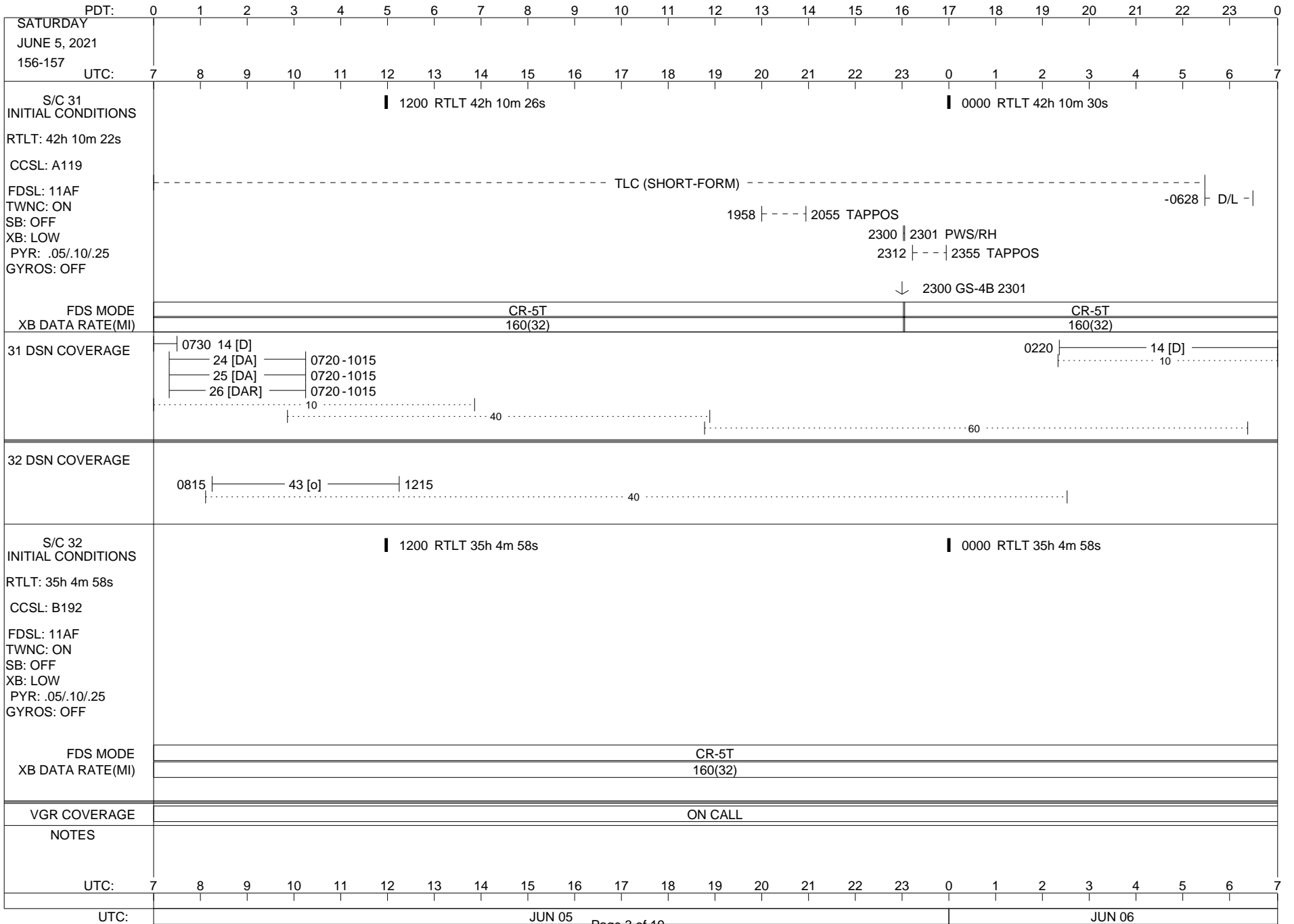
02/27/19

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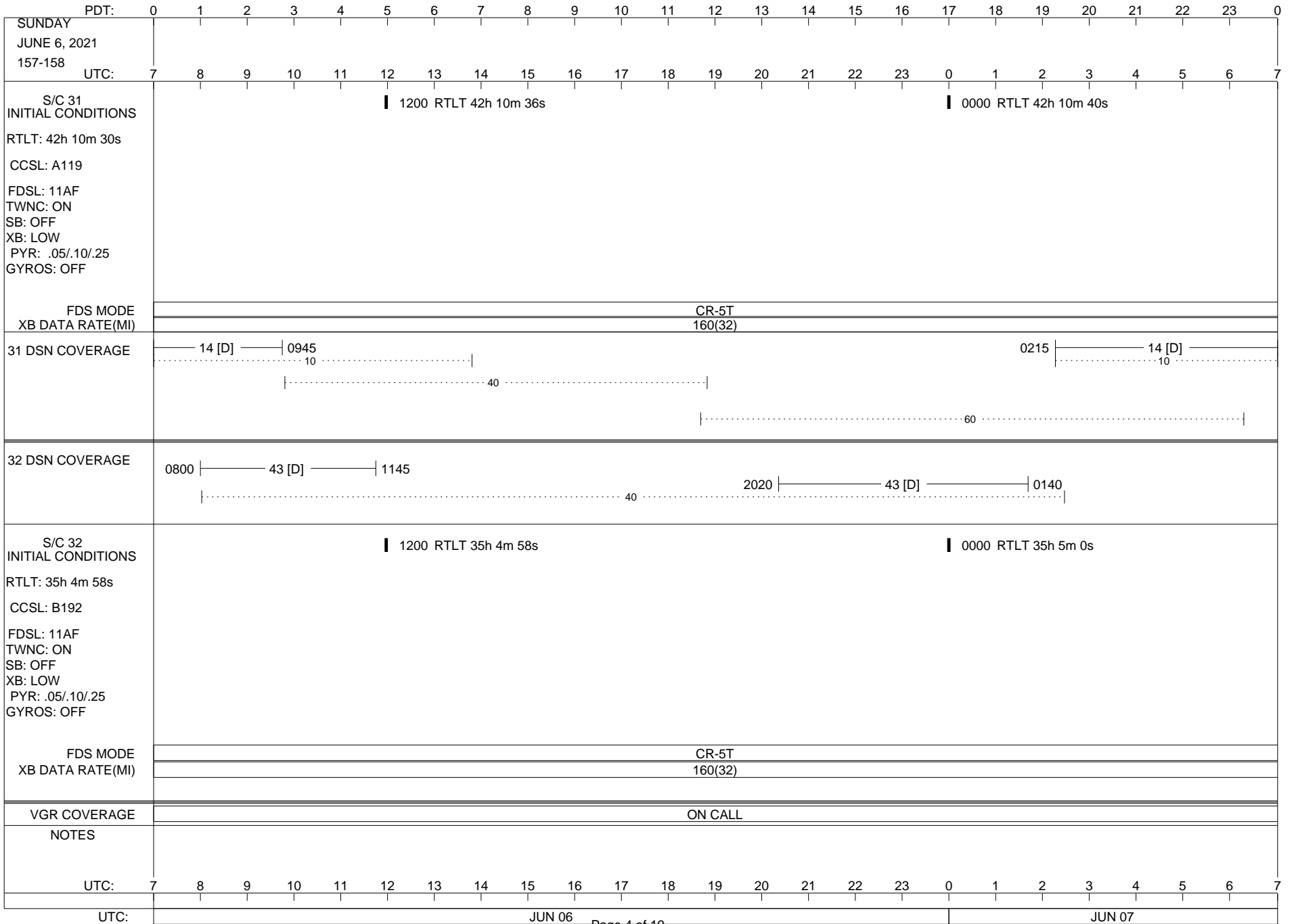


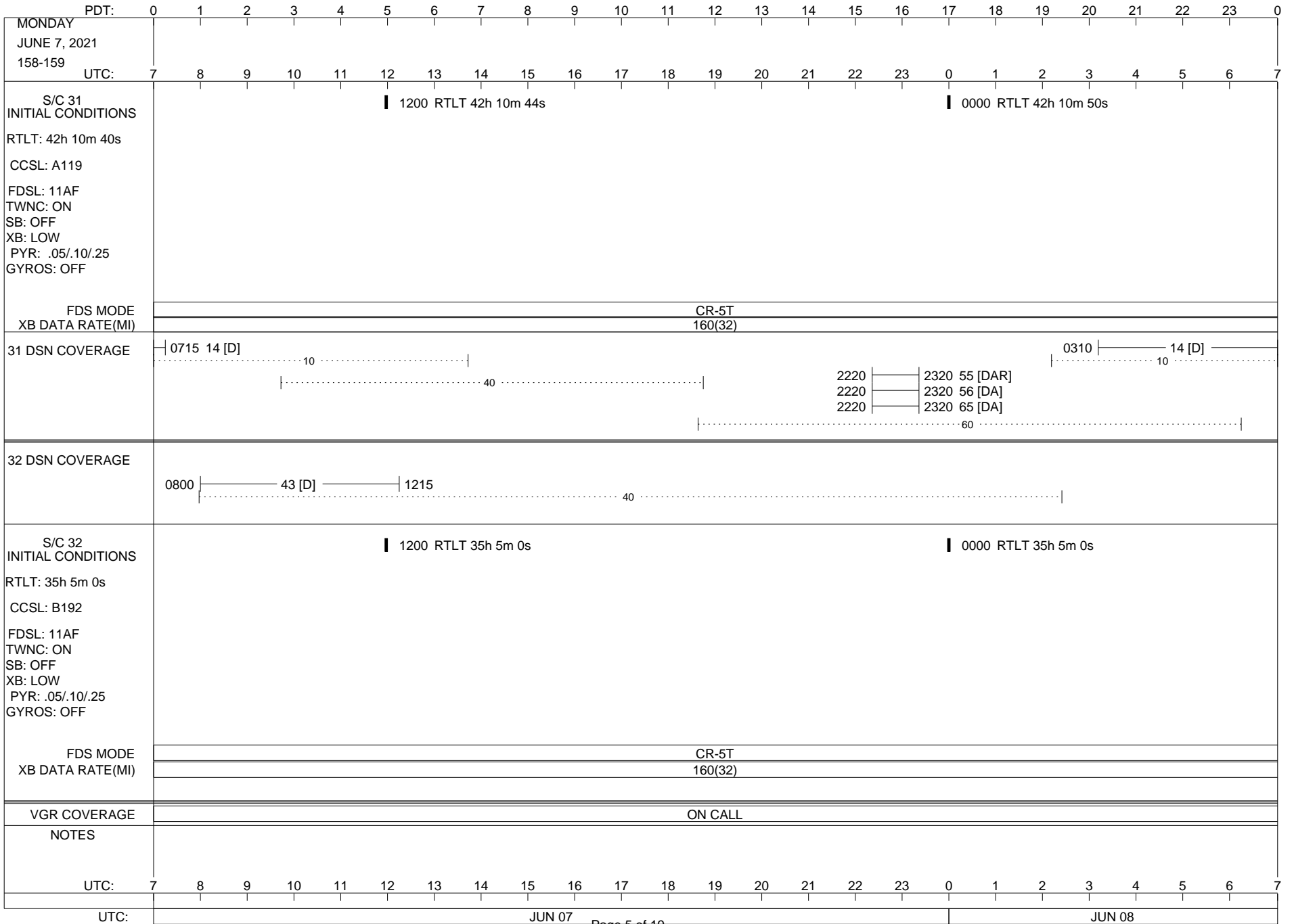


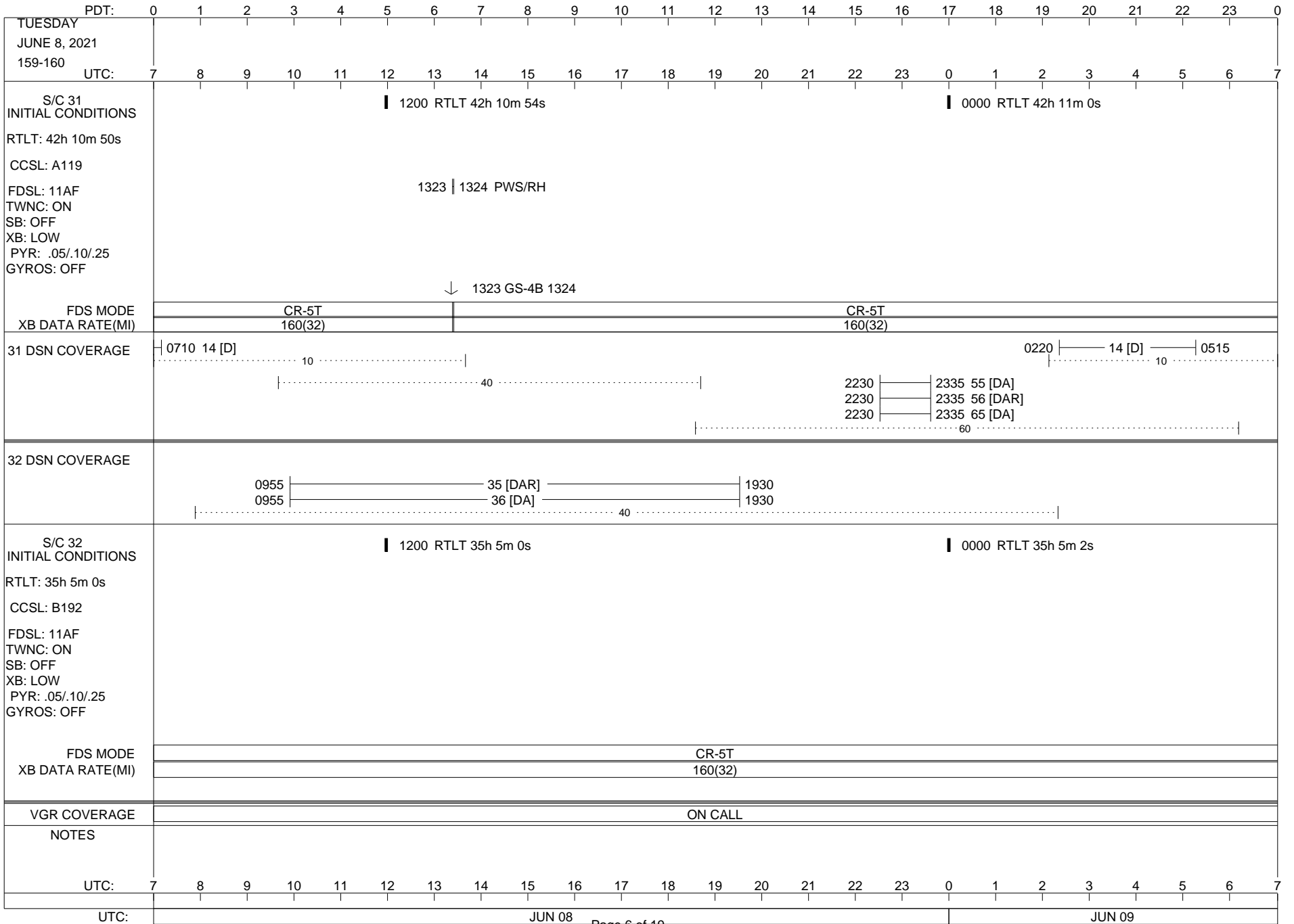
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PDT: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0

WEDNESDAY  
JUNE 9, 2021  
160-161

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: 42h 11m 0s  
CCSL: A119  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLT 42h 11m 4s  
0000 RTLT 42h 11m 10s

CCS DIAG (21:31) 0320▼  
U/L 0345 | - |  
TLC (SHORT-FORM) | - - - - -

FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

31 DSN COVERAGE

0205 |-----| 14 [T] |-----|  
|-----| 10 |-----| 10

2215 |-----| 2330 54 [DA]  
2215 |-----| 2330 55 [DAR]  
2215 |-----| 2330 56 [DA]

-----| 40 -----| 60 -----|

32 DSN COVERAGE

0750 |-----| 43 [D] |-----| 1150  
|-----| 40 -----|

S/C 32  
INITIAL CONDITIONS  
RTLT: 35h 5m 2s  
CCSL: B192  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLT 35h 5m 2s  
0000 RTLT 35h 5m 2s

FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

VGR COVERAGE

ON CALL

VGR ON CALL

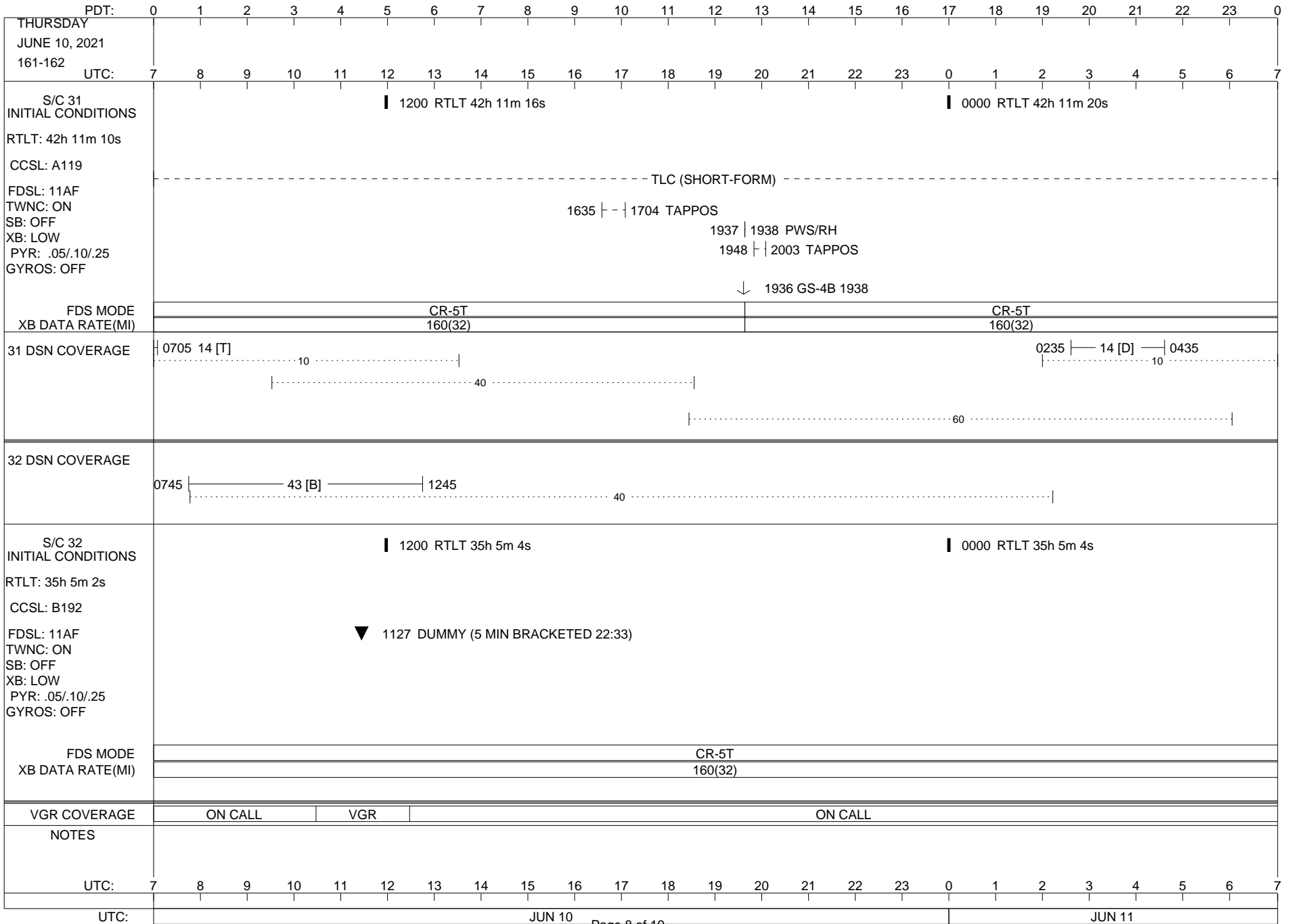
NOTES

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

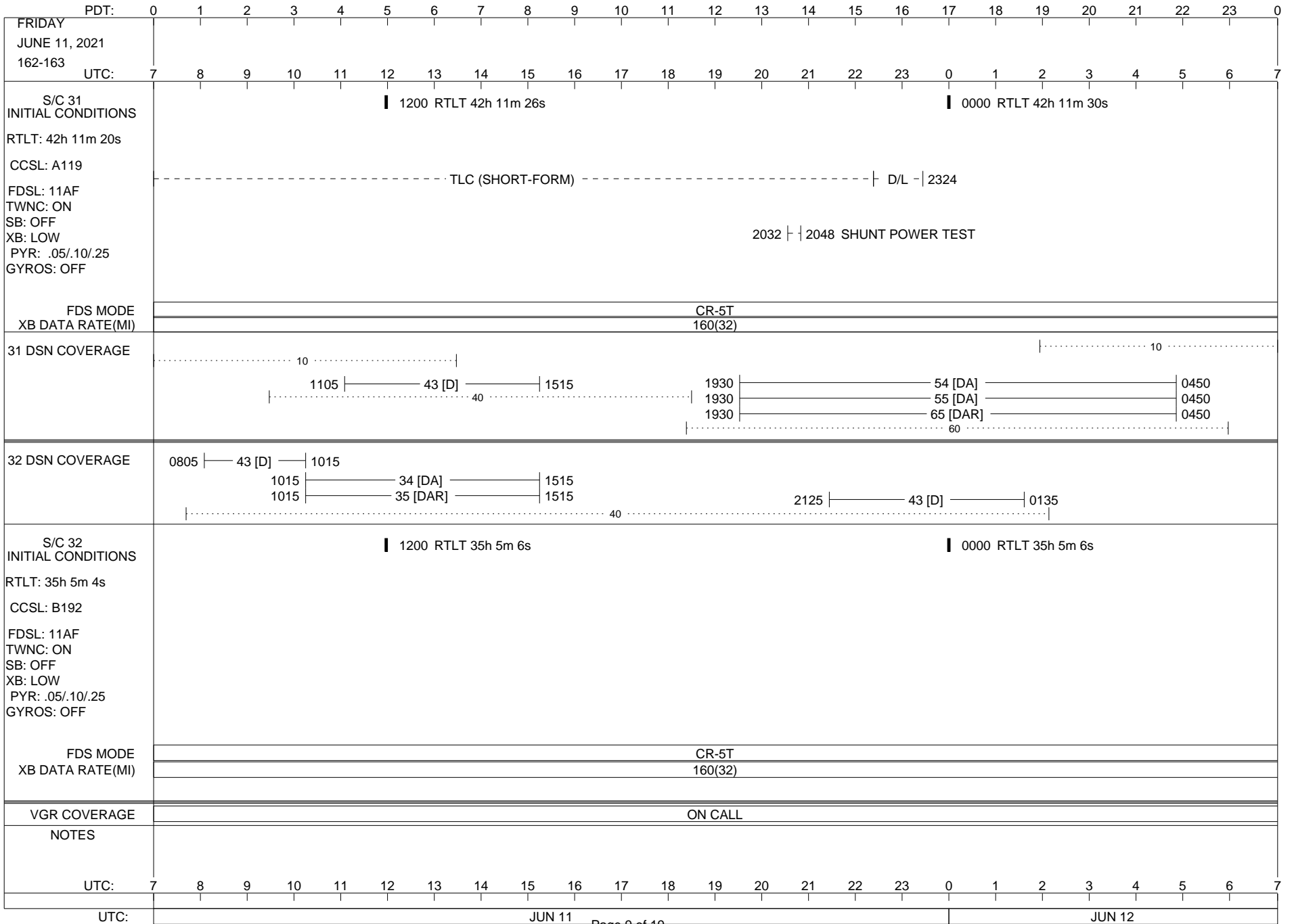
UTC: JUN 09 Page 7 of 19 JUN 10

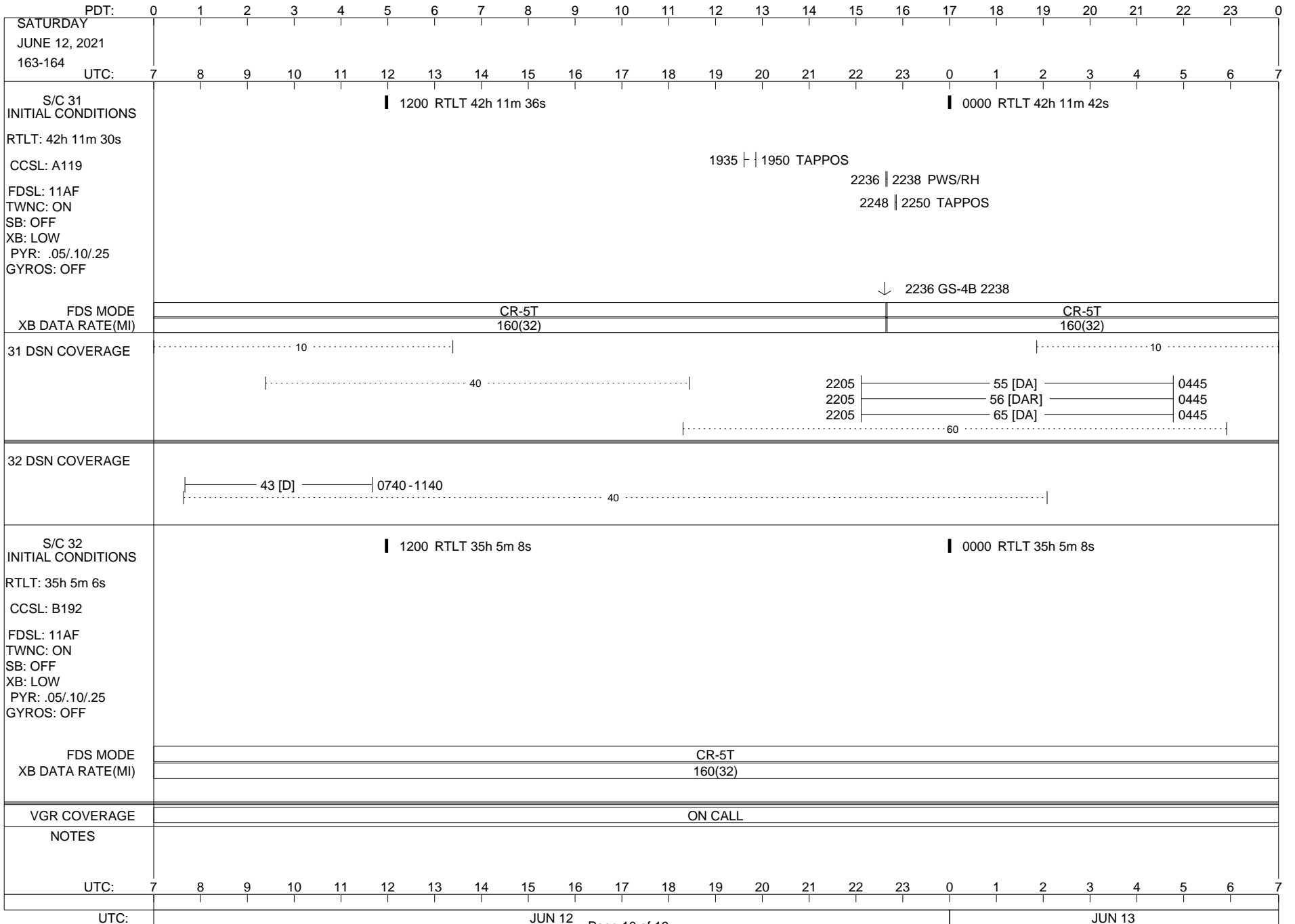


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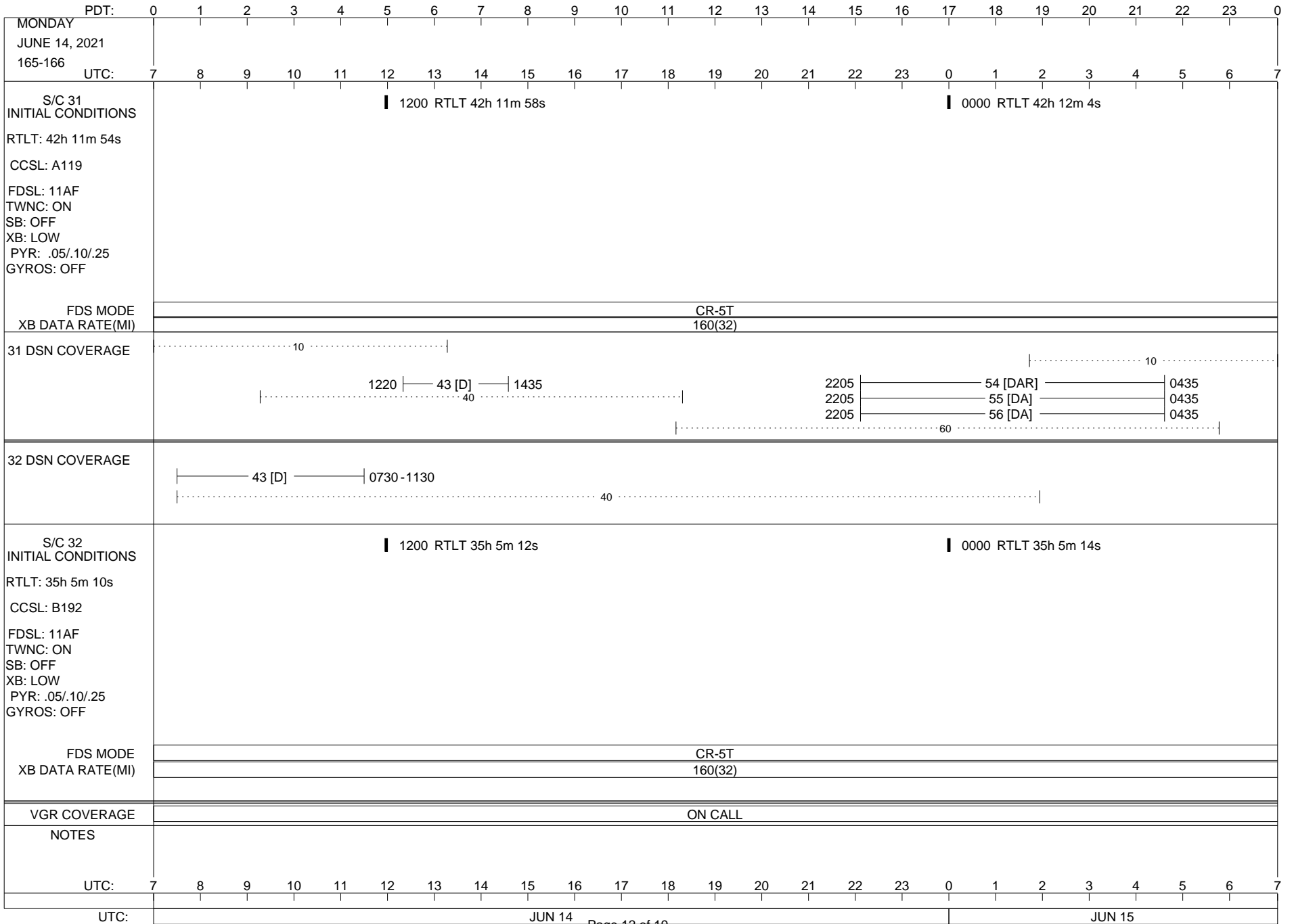
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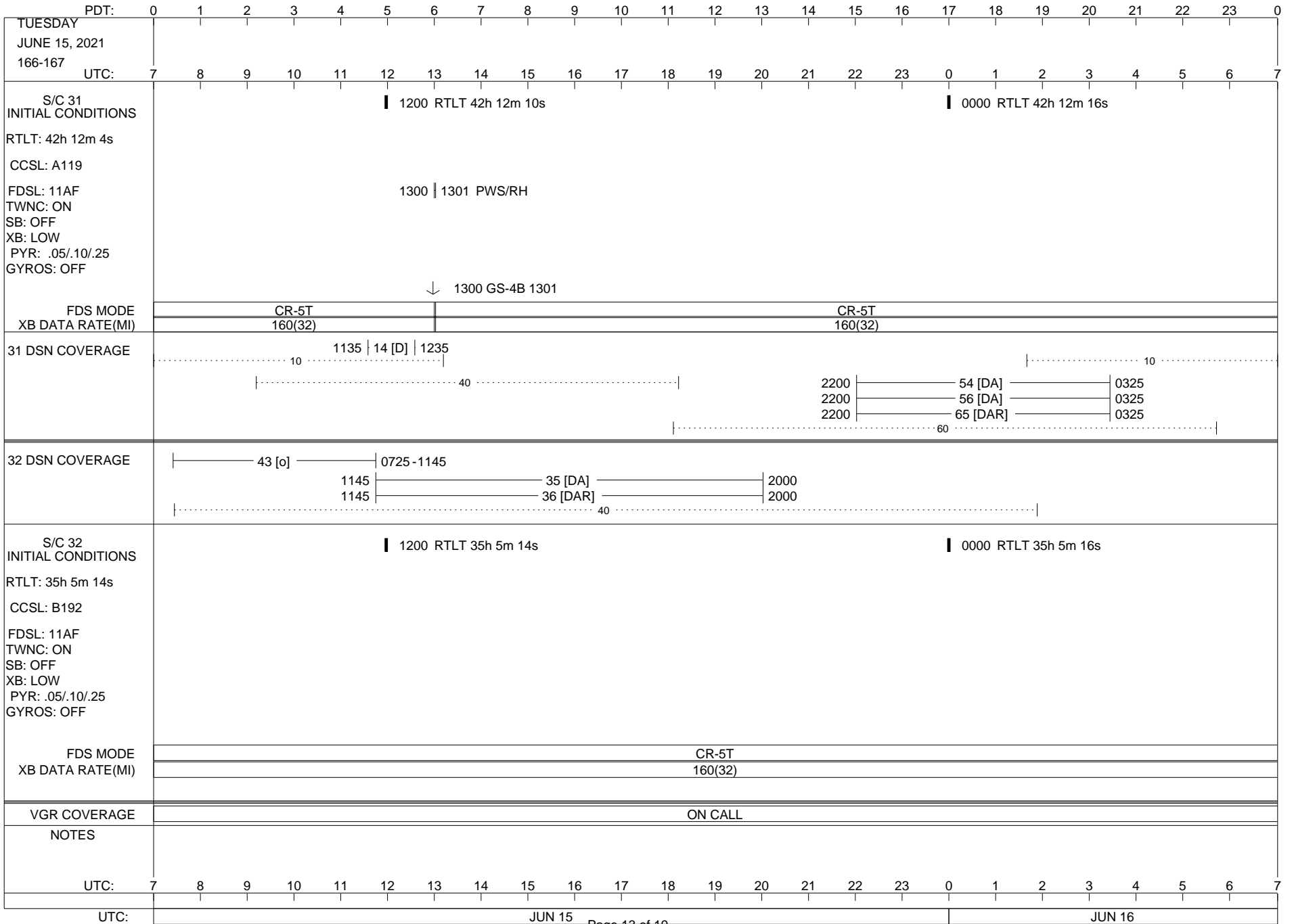




PDT:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	
SUNDAY JUNE 13, 2021 164-165	UTC: 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
S/C 31 INITIAL CONDITIONS RTLTL: 42h 11m 42s CCSL: A119 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 42h 11m 48s												0000 RTLTL 42h 11m 54s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																									
31 DSN COVERAGE	-----10-----										-----10-----															
	-----40-----										2200  -----54 [DA]-----  0355 2200  -----55 [DAR]-----  0355 2200  -----65 [DA]-----  0355  -----60-----															
32 DSN COVERAGE	-----43 [D]-----  0735-1140										-----40-----															
S/C 32 INITIAL CONDITIONS RTLTL: 35h 5m 8s CCSL: B192 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 35h 5m 10s												0000 RTLTL 35h 5m 10s													
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:	JUN 13													JUN 14												

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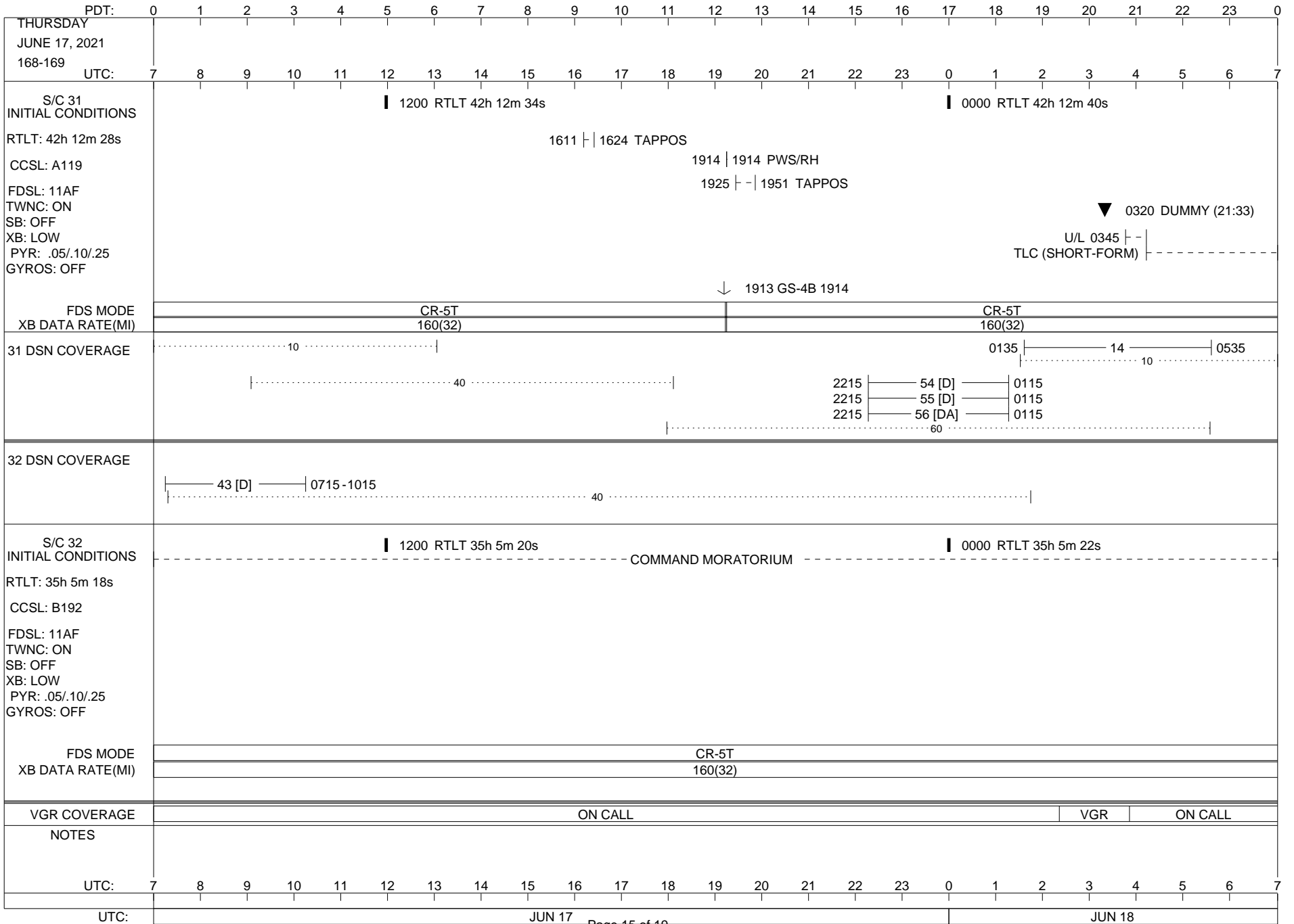




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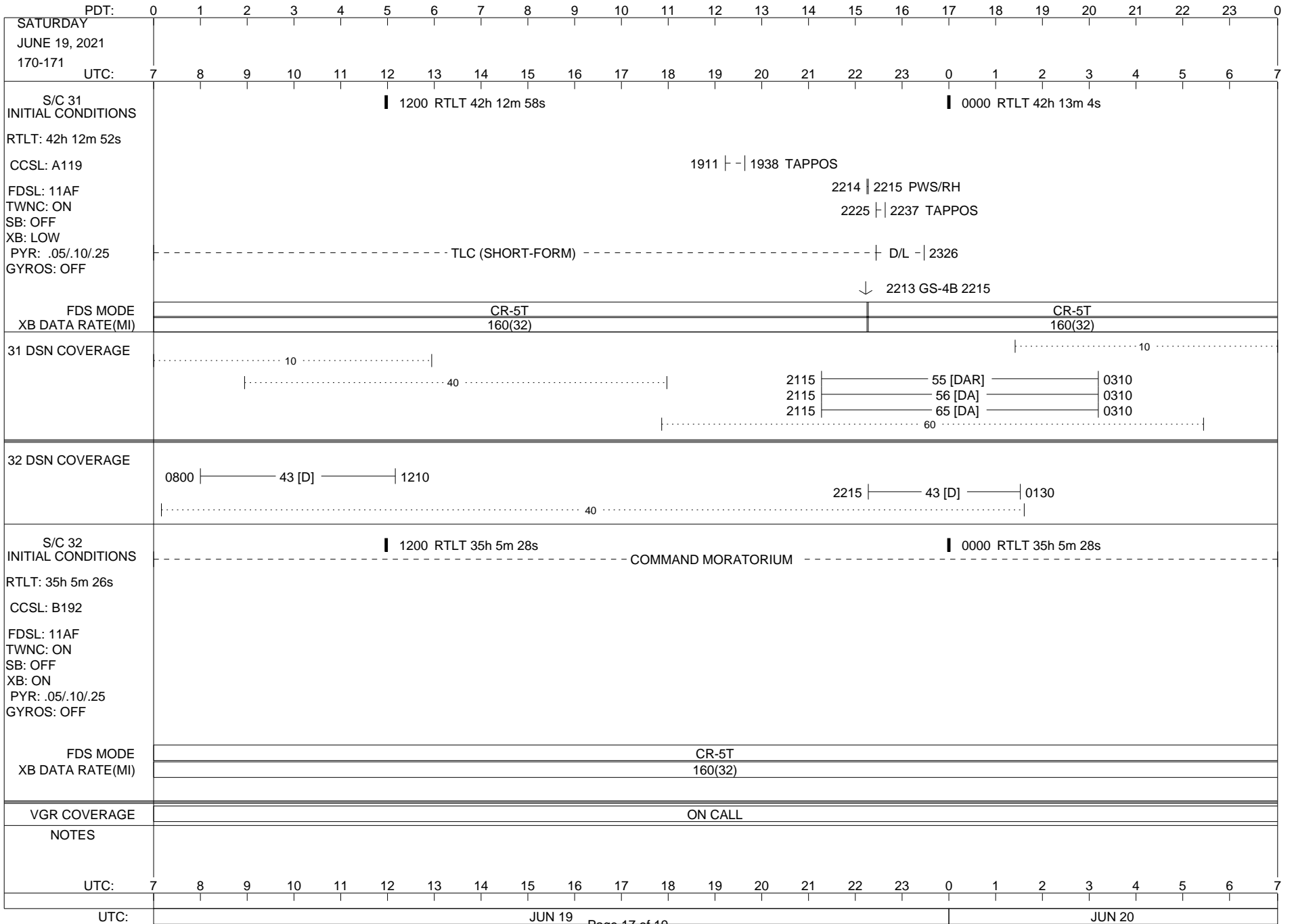
PDT:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0			
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7			
WEDNESDAY JUNE 16, 2021 167-168																												
S/C 31 INITIAL CONDITIONS RTLT: 42h 12m 16s CCSL: A119 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 42h 12m 22s												0000 RTLT 42h 12m 28s															
FDS MODE	CR-5T												CR-5T															
XB DATA RATE(MI)	160(32)												160(32)															
31 DSN COVERAGE	1025   14 [D]   1305												1025   14 [D]   1305   10															
	10												10															
	40												40															
	2050   54 [DAR]   0320												2050   54 [DAR]   0320															
	2050   55 [DA]   0320												2050   55 [DA]   0320															
	2050   56 [DA]   0320												2050   56 [DA]   0320															
	60												60															
32 DSN COVERAGE	1640   35 [DAR]   1830												1640   35 [DAR]   1830															
	1640												1640															
	40												40															
	43 [BA]												43 [BA]															
	0145												0145															
S/C 32 INITIAL CONDITIONS RTLT: 35h 5m 16s CCSL: B192 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 5m 18s												0000 RTLT 35h 5m 18s COMMAND MORATORIUM 0559   - - -															
	↓ 1718 PYR=.05/.05/.05												↓ 1718 PYR=.05/.05/.05															
	1722   -   1754 ASCAL												1722   -   1754 ASCAL															
	↓ 1754 ROLL=.05/.10/.25												↓ 1754 ROLL=.05/.10/.25															
	↓ 1757 AAC SIN FCP SWAP TABLE NOP												↓ 1757 AAC SIN FCP SWAP TABLE NOP															
	↓ 1758 1 SID MRO												↓ 1758 1 SID MRO															
	▼ 2027 DUMMY (5 MIN BRACKETED 07:33)												▼ 2027 DUMMY (5 MIN BRACKETED 07:33)															
	1656 EL-40 ↓												1656 EL-40 ↓															
	↓ 1759 CR-5T												↓ 1759 CR-5T															
FDS MODE	CR-5T												EL-40				CR-5T											
XB DATA RATE(MI)	160(32)												40(30)				160(32)											
VGR COVERAGE	ON CALL												VGR				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:	JUN 16														JUN 17													

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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							
FRIDAY JUNE 18, 2021 169-170																																
S/C 31 INITIAL CONDITIONS RTLT: 42h 12m 40s CCSL: A119 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 42h 12m 46s												0000 RTLT 42h 12m 52s																			
----- TLC (SHORT-FORM) -----																																
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																															
31 DSN COVERAGE	10										40										2100 54 [DA] 0115 2100 55 [DA] 0115 2100 65 [DAR] 0115								0200 14 [D] 0400		10	
32 DSN COVERAGE	43 [D] 0715-0815				1555 35 [DAR] 1955 1555 43 [DA] 0000										40																	
S/C 32 INITIAL CONDITIONS RTLT: 35h 5m 22s CCSL: B192 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 5m 24s												0000 RTLT 35h 5m 26s																			
----- COMMAND MORATORIUM -----																																
<ul style="list-style-type: none"> <li>↓ 1626 BAY 1 HTR OFF</li> <li>↓ 1626 GYROS BC ON</li> <li>↓ 1627 GYRO INIT</li> <li>↓ 1636 GYRO FAULT TEST</li> <li>↓ 1657 AAI</li> <li>1659   -   1732 MAGROL</li> <li style="padding-left: 20px;">↓ 1739 RAI</li> <li style="padding-left: 40px;">↓ 1745 GYROS OFF</li> <li style="padding-left: 40px;">↓ 1753 BAY 1 HTR ON</li> <li>↓ 1629 EL-40 1631</li> </ul>																																
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:	JUN 18														JUN 19																	



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		
SUNDAY JUNE 20, 2021 171-172	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: 42h 13m 4s CCSL: A119 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 42h 13m 12s												0000 RTLT 42h 13m 18s														
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																										
31 DSN COVERAGE	.....10.....										0120  -----14 [D]-----  0350 .....10.....																
	-----40-----										2015  -----55 [DA]-----  0115 2015  -----56 [DA]-----  0115 2015  -----65 [DAR]-----  0115 .....60.....																
32 DSN COVERAGE	-----43 [D]-----  0705-1055										1900  -----43 [D]-----  0125 .....40-----																
S/C 32 INITIAL CONDITIONS RTLTL: 35h 5m 28s CCSL: B192 FDSL: 11AF TWNC: ON SB: OFF XB: ON PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 5m 30s												0000 RTLT 35h 5m 32s														
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)														
VGR COVERAGE	ON CALL												VGR			ON CALL											
NOTES	<p style="text-align: center;">----- COMMAND MORATORIUM -----</p> <p style="text-align: center;">↓ 1929 BAY 1 HTR OFF ↓ 1929 GYROS AC ON 1937  ---  2028 CONDITIONING           ↓ 2028 GYROS OFF           ↓ 2037 BAY 1 HTR ON</p> <p style="text-align: center;">↓ 1931 EL-40 1932</p>																										
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:	JUN 20												JUN 21														

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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 JUNE 21, 2021 172-173																											
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: 42h 13m 18s CCSL: A119 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 42h 13m 24s																										
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
31 DSN COVERAGE	<p>..... 10 .....</p> <p>  ..... 40 .....</p>																										
32 DSN COVERAGE	<p>————— 43 [D] —————   0700-1115</p>																										
S/C 32 INITIAL CONDITIONS RTLT: 35h 5m 32s CCSL: B192 FDSL: 11AF TWNC: ON SB: OFF XB: ON PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 5m 34s																										
	----- COMMAND MORATORIUM -----																										
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:	JUN 21													JUN 22													