

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: June 26, 2013

For the Period: 06/27/13 to 08/04/13 (13-178 – 13-216)

**DSN OPSCHIEF (1) 230-102**

**SCIENCE**

**FLIGHT TEAM (14) 600-100**

**DSOT (1) 230-102**

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- PWS \*wsk@space.physics.uiowa.edu
- \*Leonard.F.Burlaga@nasa.gov
- \*Donald-Gurnett@uiowa.edu

- Dodd, S.
- Hall, J.
- Howard, S. (3)
- Ludwig, R. (2)
- Matsumoto, S.
- Medina, E.
- Peralta, F.
- Weeks, T.
- Wong, R.
- Yang, L
- Zottarelli, L.
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**OTHER**

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**LEGEND:**

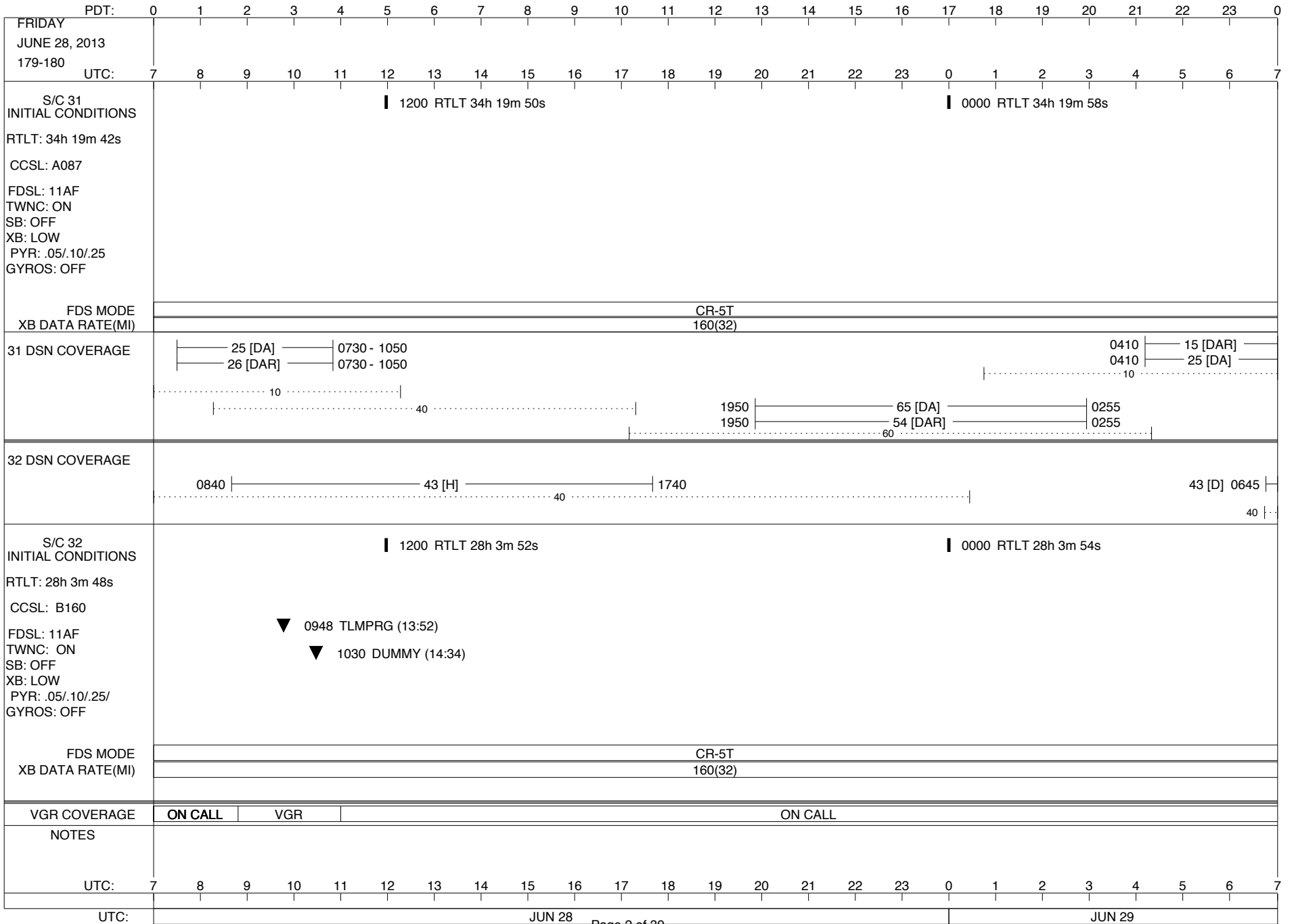
- ▽ = R/T Command (Last chance or Contingency)
- ▼ = R/T Command (Scheduled)
- \* = Result of R/T Command
- n = (where n = 1,2,3 ..) Special Note, see bottom of page
- A = Arrayed station
- B = 7-Point BLF
- D = Downlink only pass
- H = High Power Transmitter
- R = Array Reference Antenna
- T = TLC Uplink
- U = Uplink only pass
- [o] = Ramp-through

\*Electronic Copy Only  
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09/08/10

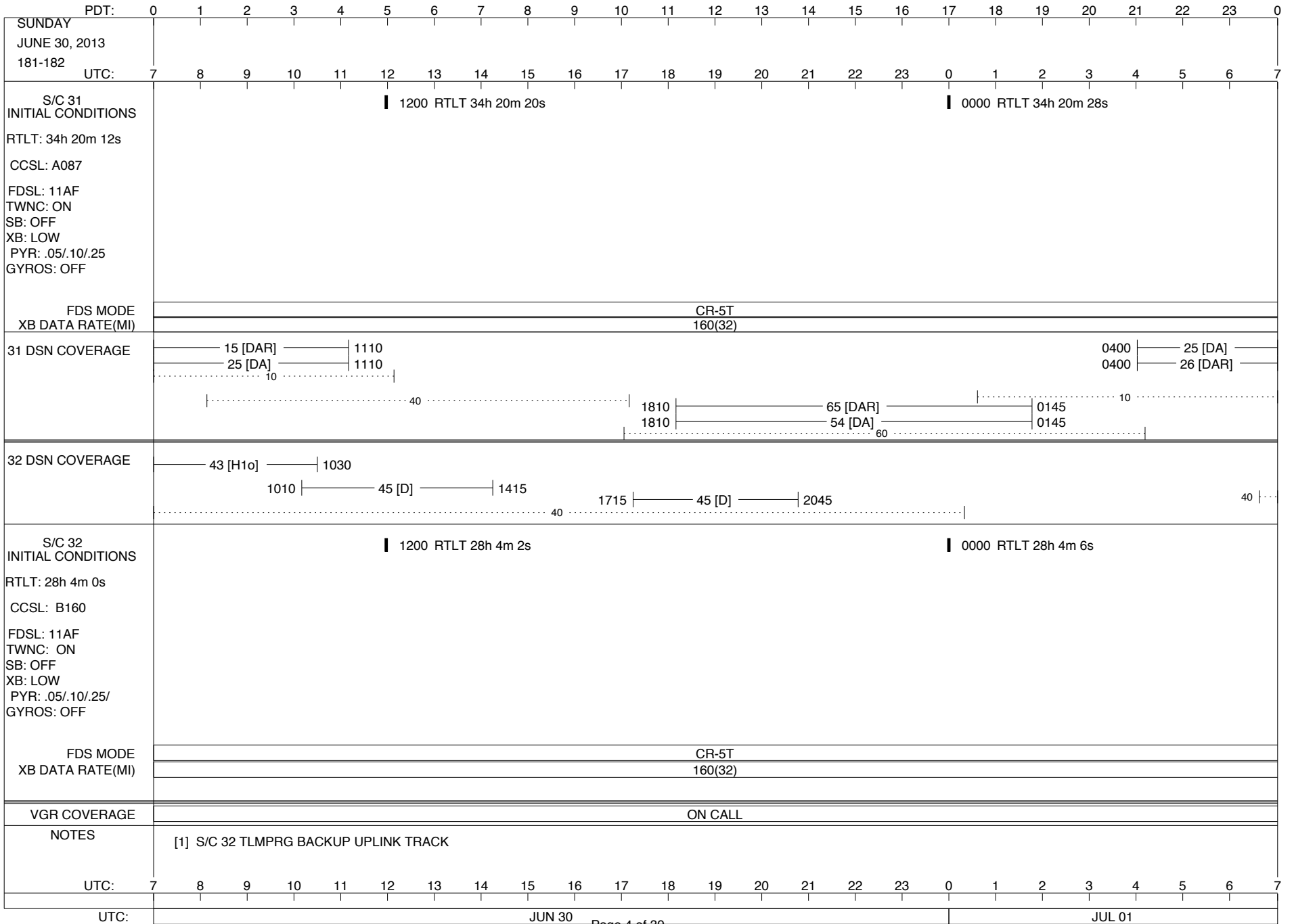
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S/C 31 INITIAL CONDITIONS RTLTL: 34h 19m 28s CCSL: A087 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 34h 19m 34s												0000 RTLTL 34h 19m 42s													
	0700 - 0705 CCSTIM (FINE)												1615   ---   1712 TAPPOS													
	* 0737 - 0740 CCSTIM (COARSE)												1916    1917 PWS/RH													
													1929   - - - -   2039 TAPPOS													
													↓ 1916 GS-4B 1917													
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
31 DSN COVERAGE	25 [DA] 1055 26 [DAR] 1055 10												40 60 10													
32 DSN COVERAGE	43 [D] 1015 0720 - 1035												34 [D] 1955 40													
S/C 32 INITIAL CONDITIONS RTLTL: 28h 3m 44s CCSL: B160 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 28h 3m 46s												0000 RTLTL 28h 3m 48s													
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
VGR COVERAGE													ON CALL													
NOTES	[1] S/C 31=GS-4B @ 1916 XB=2.8K(41) NOT RECOVERABLE																									
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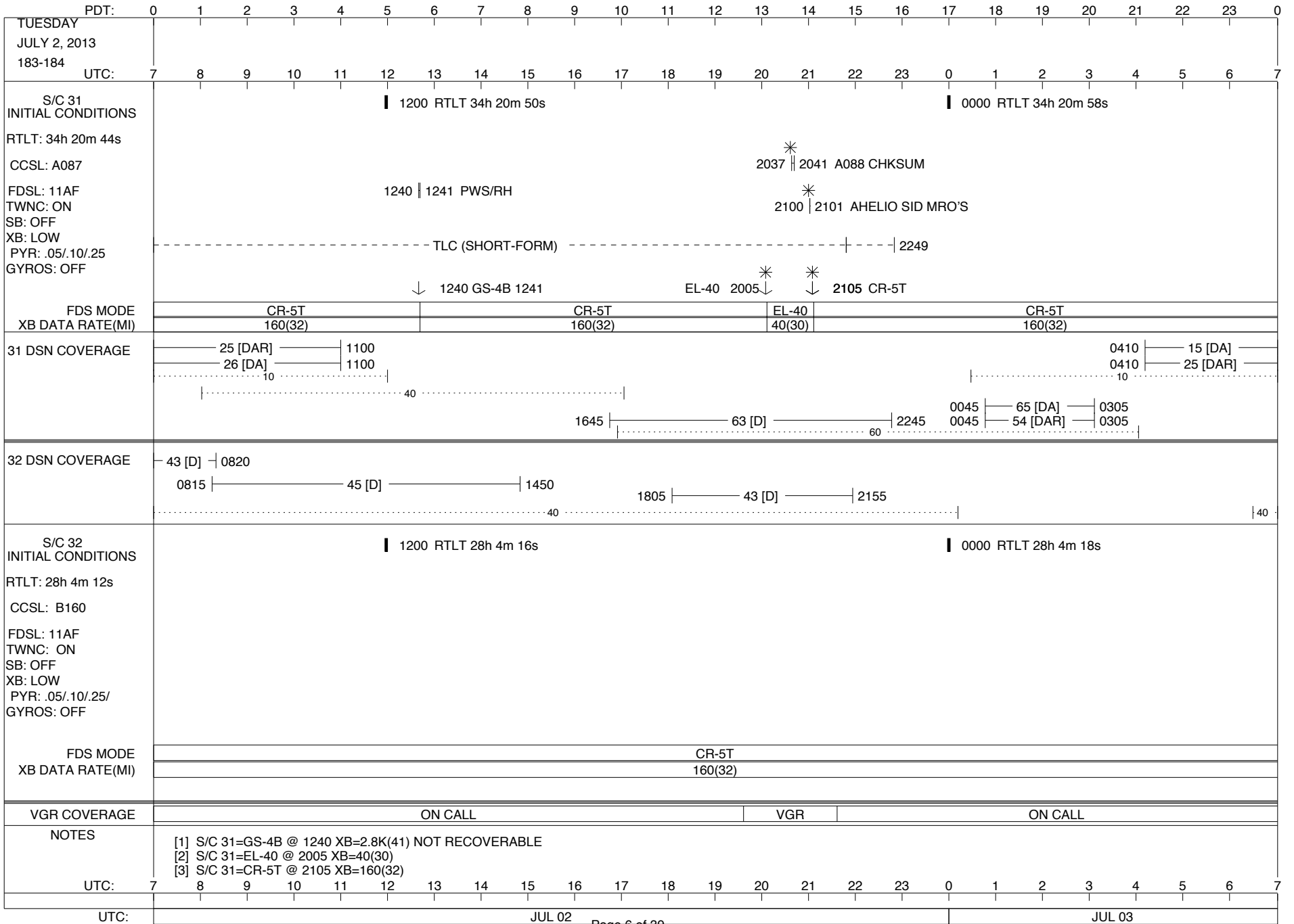


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S/C 31 INITIAL CONDITIONS RTLTL: 34h 19m 58s CCSL: A087 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 34h 20m 4s												0000 RTLTL 34h 20m 12s															
FDS MODE	CR-5T												CR-5T															
XB DATA RATE(MI)	160(32)												160(32)															
31 DSN COVERAGE	15 [DAR] 1105 25 [DA] 1105 10 1200 43 [D] 1620 40												0325 15 [DAR] 0325 25 [DA] 10 1940 63 [D] 0155 60															
32 DSN COVERAGE	43 [D] 1110 1050 45 [D] 1630 40												43 [H1o] 0640 40															
S/C 32 INITIAL CONDITIONS RTLTL: 28h 3m 54s CCSL: B160 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 28h 3m 56s												0000 RTLTL 28h 4m 0s															
FDS MODE	CR-5T				EL-40				CR-5T																			
XB DATA RATE(MI)	160(32)				40(30)				160(32)																			
VGR COVERAGE	ON CALL				VGR				ON CALL																			
NOTES	[1] S/C 32=EL-40 @ 1328 XB=40(30) [2] S/C 32=CR-5T @ 1528 XB=160(332) [3] S/C 31=GS-4B @ 2217 XB=2.8K(41) NOT RECOVERABLE																											
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UTC:	JUN 29														JUN 30													

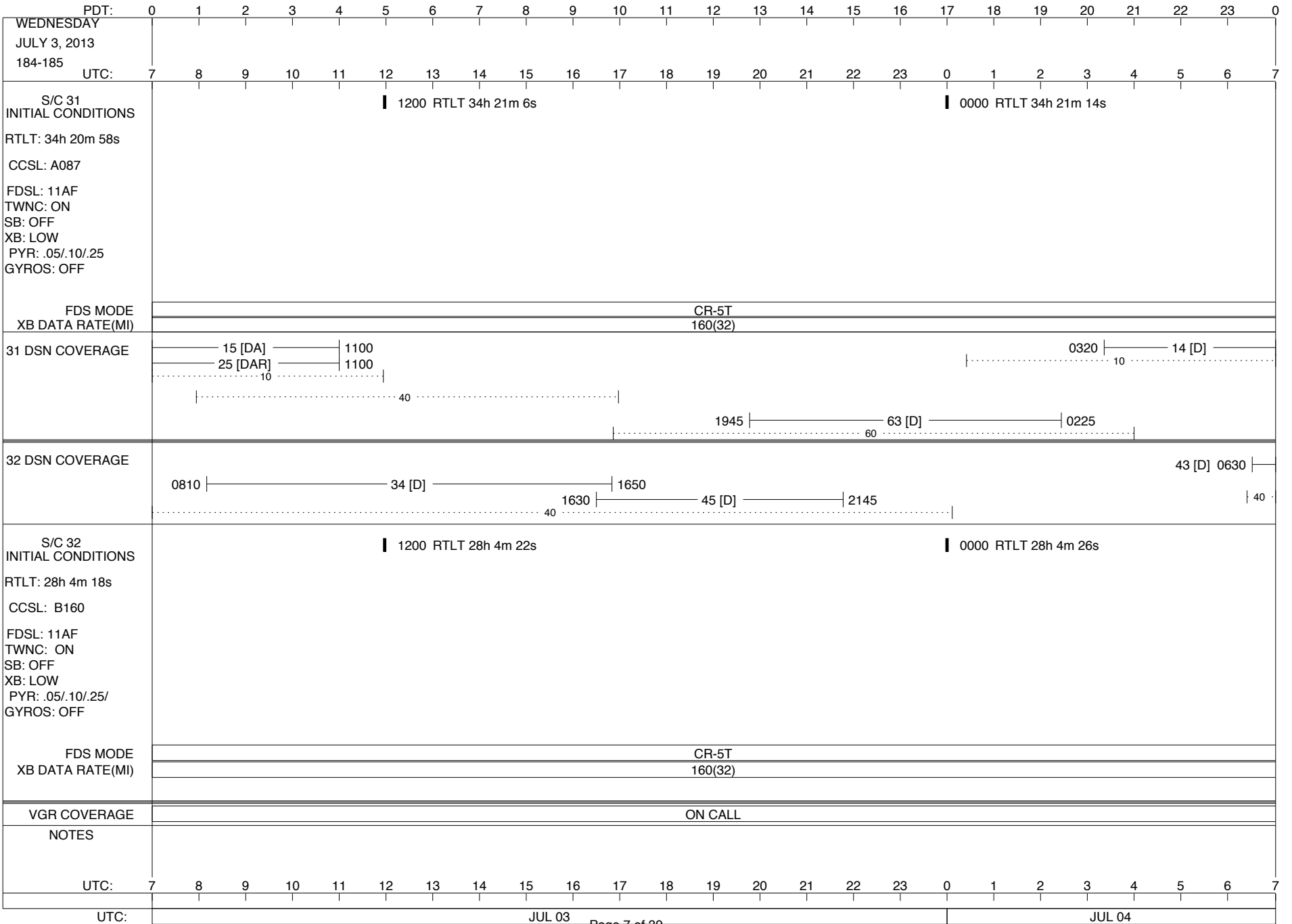




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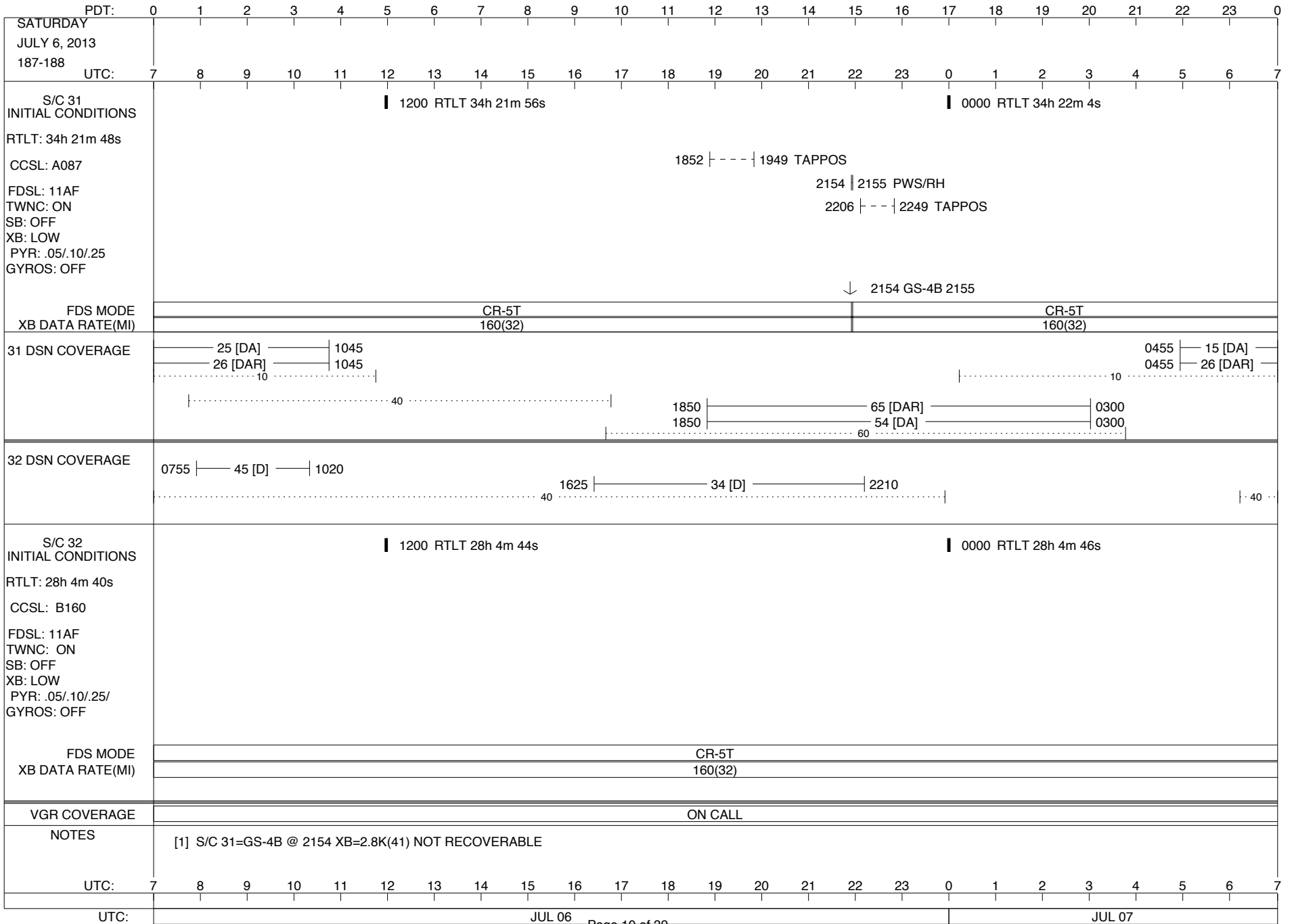


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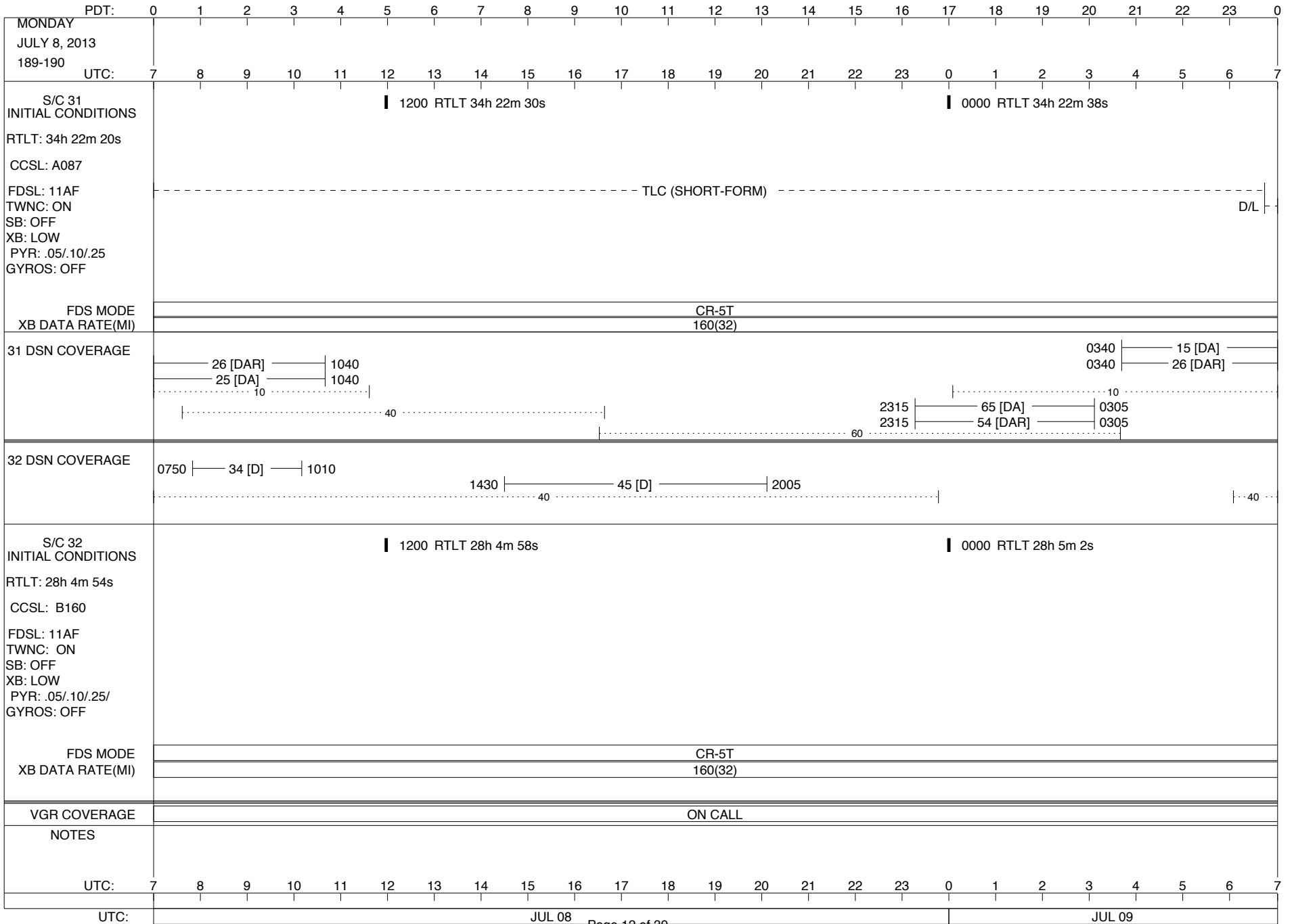
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S/C 31 INITIAL CONDITIONS RTLTL: 34h 21m 14s CCSL: A087 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 34h 21m 22s												0000 RTLT 34h 21m 32s															
FDS MODE	CR-5T												CR-5T															
XB DATA RATE(MI)	160(32)												160(32)															
31 DSN COVERAGE	14 [D] 1145 10 40												0200 15 [DAR] 0200 26 [DA] 14 [D] 0655 10 60															
32 DSN COVERAGE	43 [D] 1010 1030 34 [D] 1620 40												40															
S/C 32 INITIAL CONDITIONS RTLTL: 28h 4m 26s CCSL: B160 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 28h 4m 28s												0000 RTLT 28h 4m 32s															
FDS MODE	CR-5T												CR-5T															
XB DATA RATE(MI)	160(32)												160(32)															
VGR COVERAGE	ON CALL												ON CALL															
NOTES	<p><b>JPL HOLIDAY!</b></p> <p>[1] S/C 31=GS-4B @ 1853 XB=2.8K(41) NOT RECOVERABLE</p>																											
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UTC:	JUL 04														JUL 05													

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 5, 2013 186-187	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: 34h 21m 32s CCSL: A087 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 34h 21m 40s												0000 RTLT 34h 21m 48s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																									
31 DSN COVERAGE	0730 15 [DAR] 0730 26 [DA] 14 [D] 1145 10 40												1940 63 [D] 2120 0255 25 [DA] 0255 26 [DAR] 10 0045 65 [DAR] 0245 0045 54 [DA] 0245 60													
32 DSN COVERAGE	0800 34 [D] 1315 1305 45 [D] 2025 40												40													
S/C 32 INITIAL CONDITIONS RTLTL: 28h 4m 32s CCSL: B160 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 28h 4m 36s												0000 RTLT 28h 4m 40s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																									
VGR COVERAGE													ON CALL													
NOTES	<b>JPL HOLIDAY!</b>																									
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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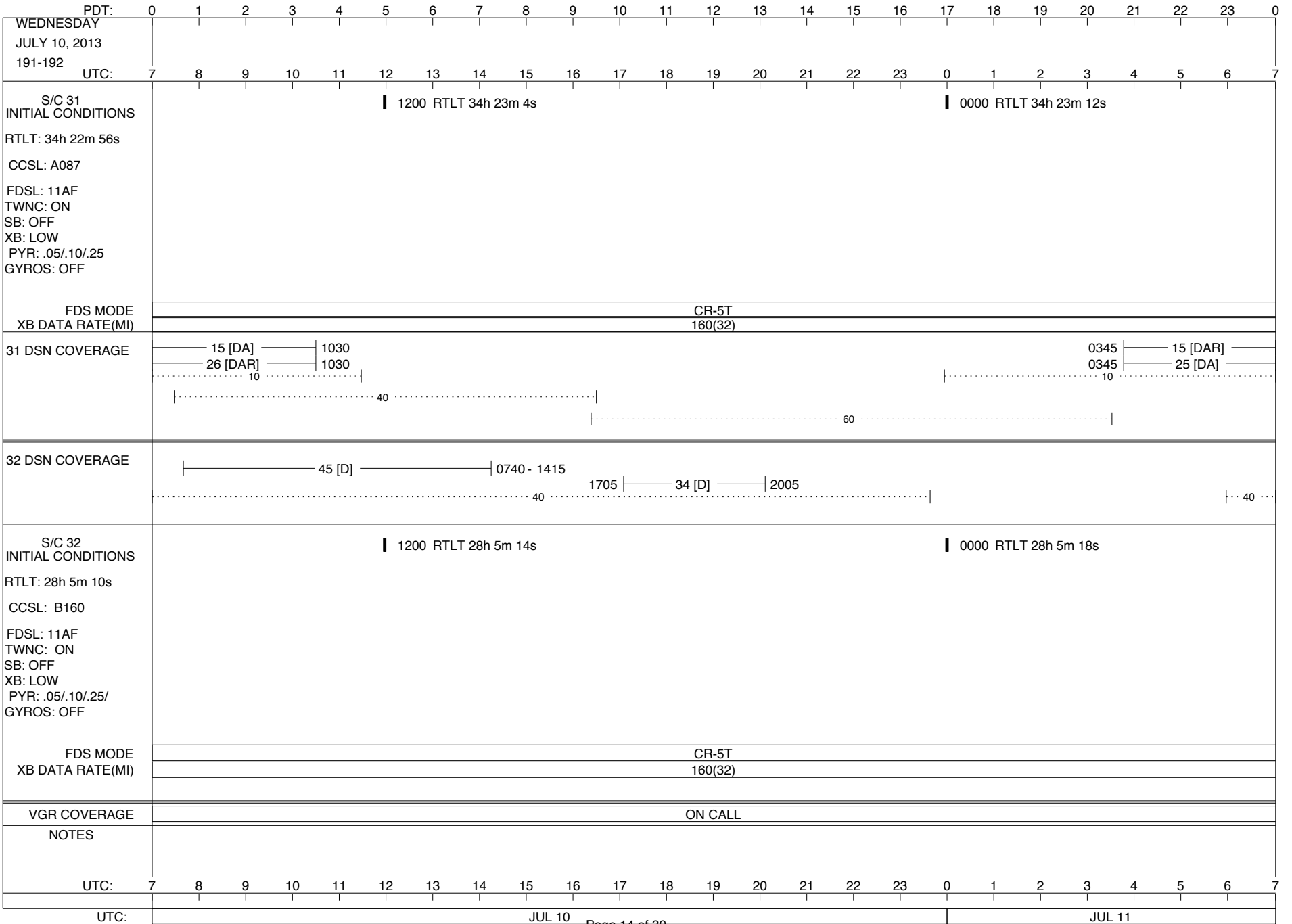


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S/C 31 INITIAL CONDITIONS RTLTL: 34h 22m 4s CCSL: A087 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 34h 22m 12s												0000 RTLT 34h 22m 20s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)													
31 DSN COVERAGE	15 [DA] 1045 26 [DAR] 1045 10 40 1715 63 [T1] 2025 60												0345 15 [DA] 0545 0345 26 [DAR] 0545 0545 25 [DA] 10													
32 DSN COVERAGE	1115 34 [o] 2020 40												40													
S/C 32 INITIAL CONDITIONS RTLTL: 28h 4m 46s CCSL: B160 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 28h 4m 50s												0000 RTLT 28h 4m 54s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)													
VGR COVERAGE	ON CALL												ON CALL													
NOTES	[1] A088 1ST BACKUP U/L TRACK																									
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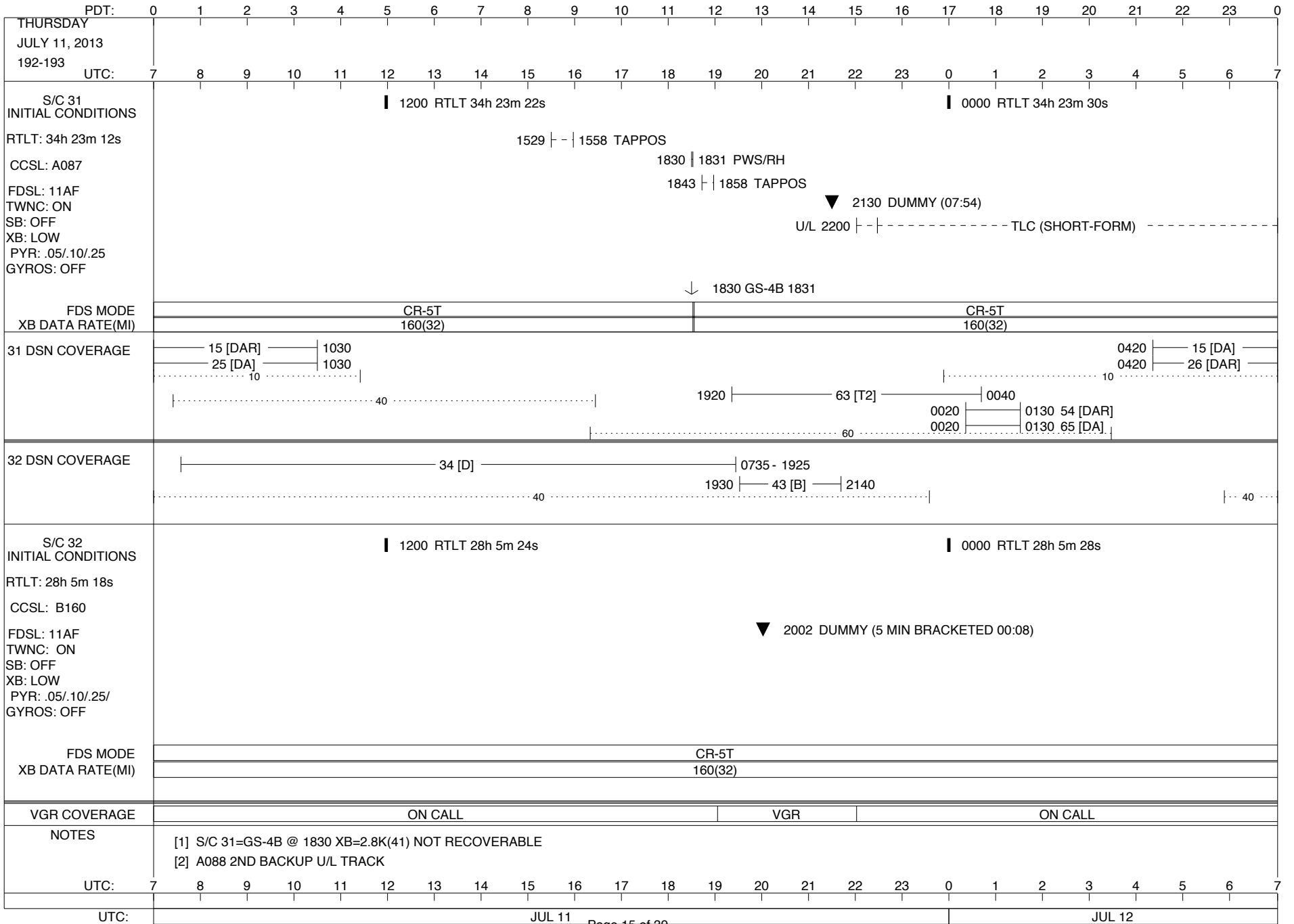


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S/C 31 INITIAL CONDITIONS RTLTL: 34h 22m 38s CCSL: A087 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 34h 22m 46s														0000 RTLTL 34h 22m 56s													
D/L   0745	1217   1218 PWS/RH																											
	↓ 1217 GS-4B 1218																											
FDS MODE	CR-5T														CR-5T													
XB DATA RATE(MI)	160(32)														160(32)													
31 DSN COVERAGE	0720 15 [DA]   1035   26 [DAR]     25 [DA]   0720 - 1035 ..... 10 .....														0235   15 [DA]   0235   26 [DAR]   ..... 10 .....													
	..... 40 .....														2350   65 [DA]   0255 2350   54 [DAR]   ..... 60 .....													
32 DSN COVERAGE	0755   45 [D]   1225														1630   34 [D]   1955 ..... 40 .....													
S/C 32 INITIAL CONDITIONS RTLTL: 28h 5m 2s CCSL: B160 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 28h 5m 6s														0000 RTLTL 28h 5m 10s													
FDS MODE															CR-5T													
XB DATA RATE(MI)															160(32)													
VGR COVERAGE	ON CALL																											
NOTES	[1] S/C 31=GS-4B @ 1217 XB=2.8K(41) NOT RECOVERABLE																											
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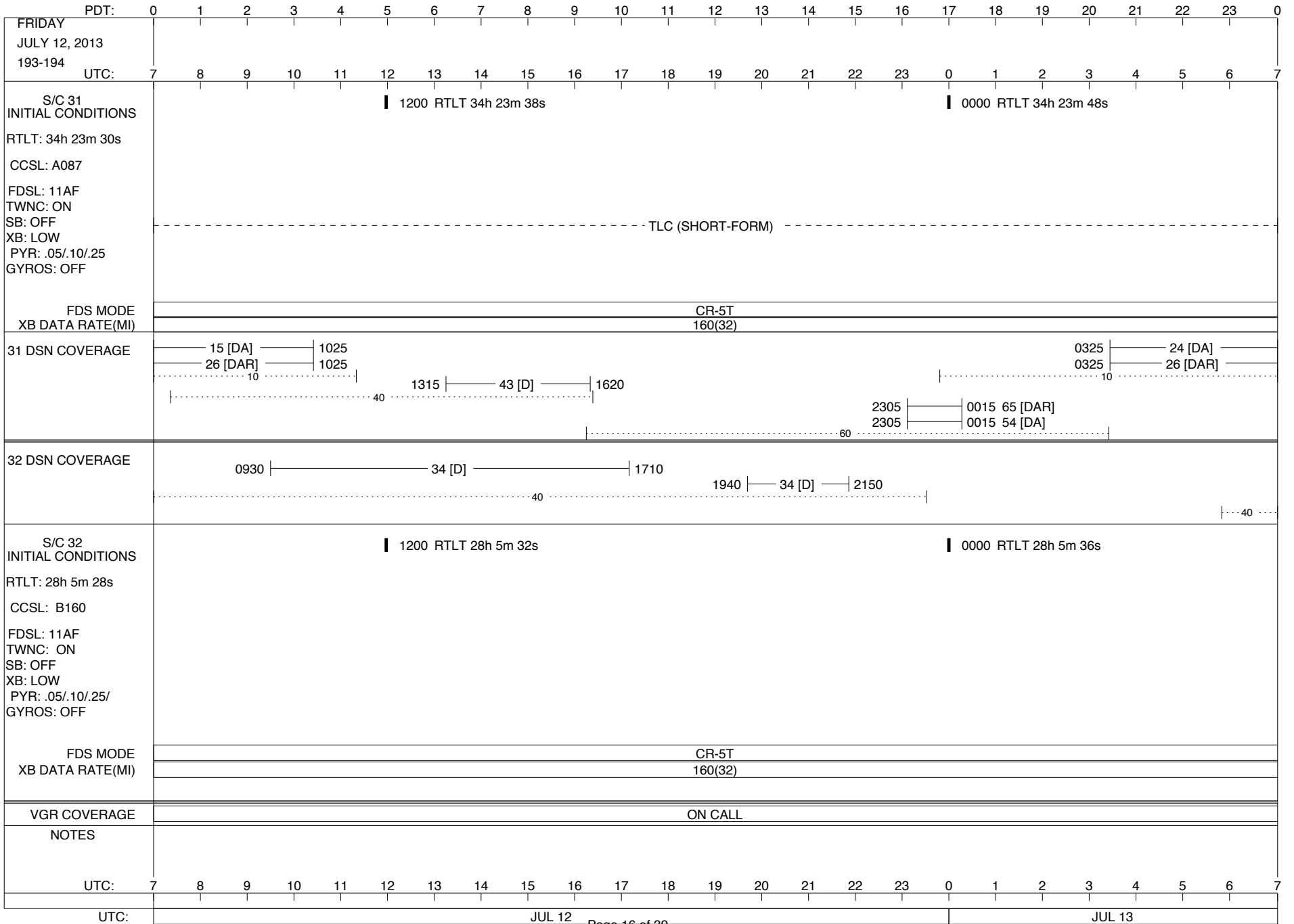


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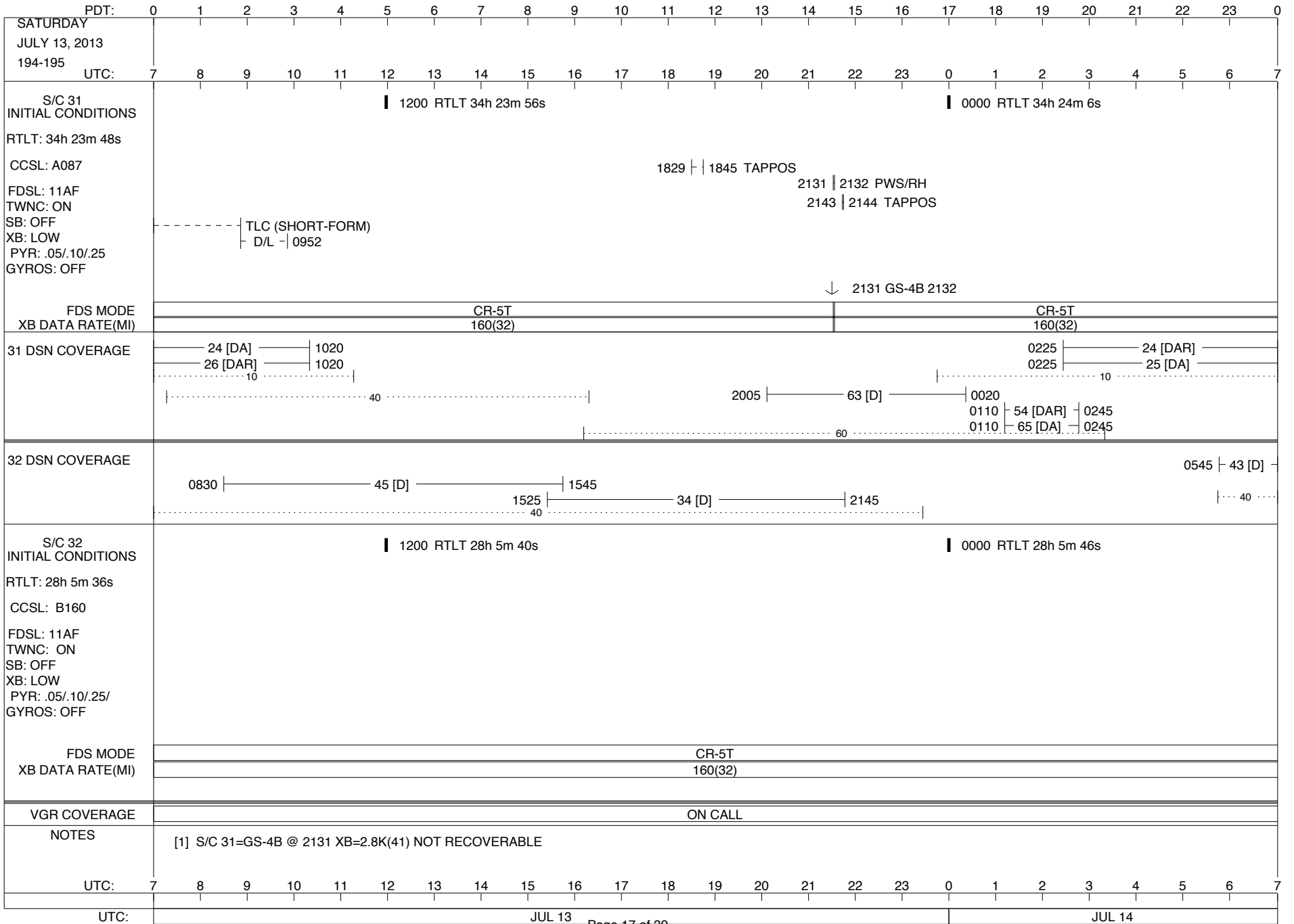




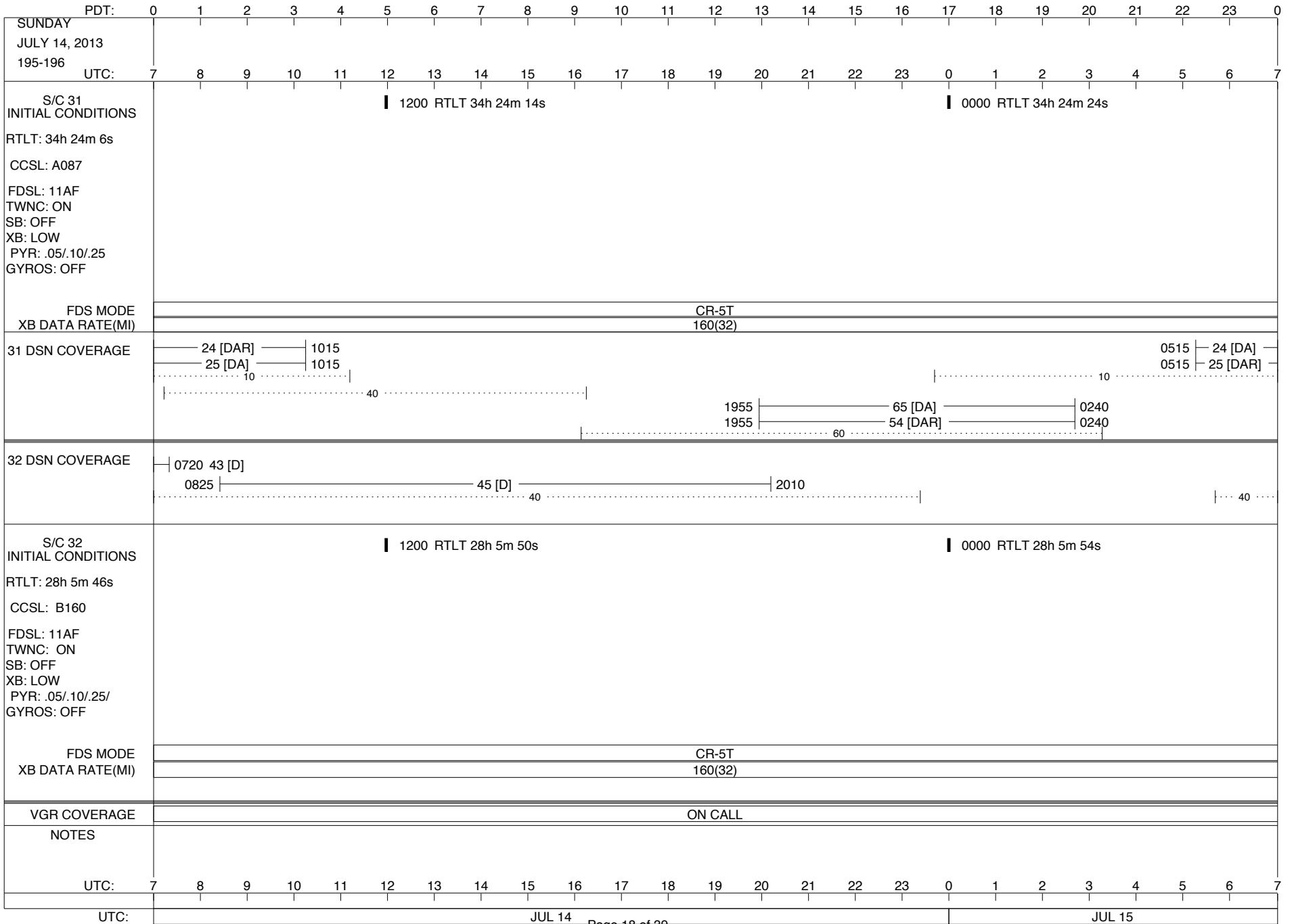
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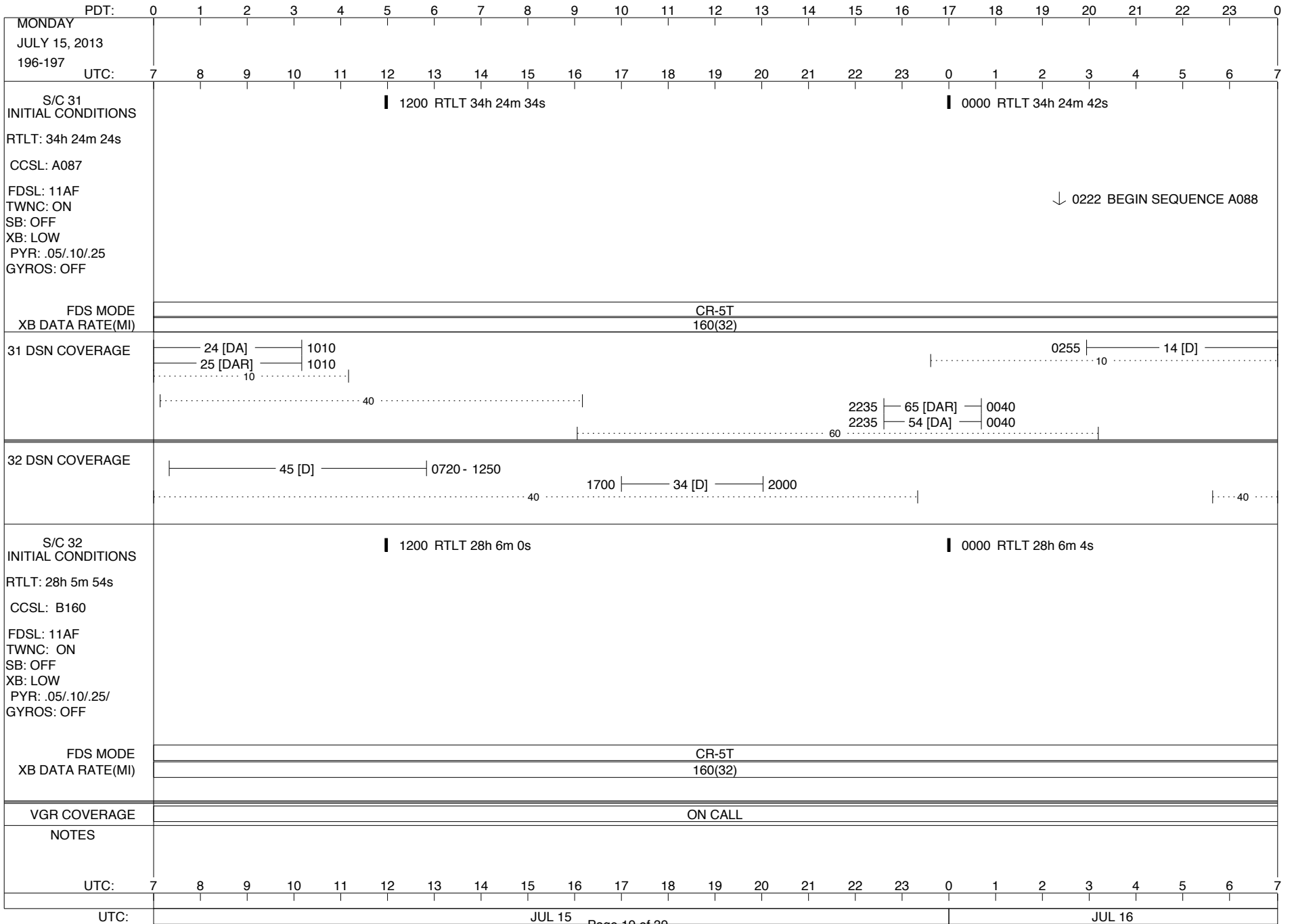
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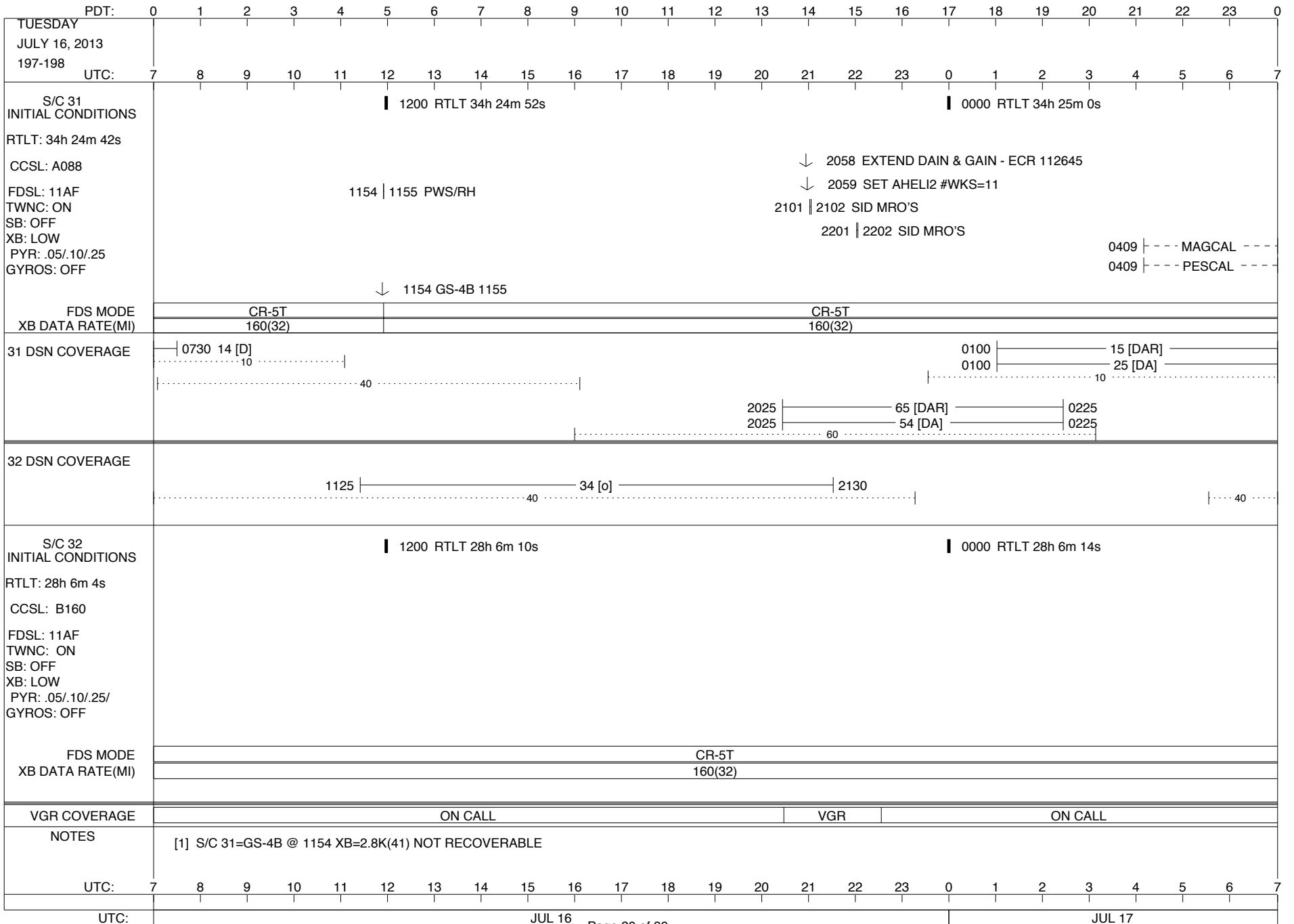
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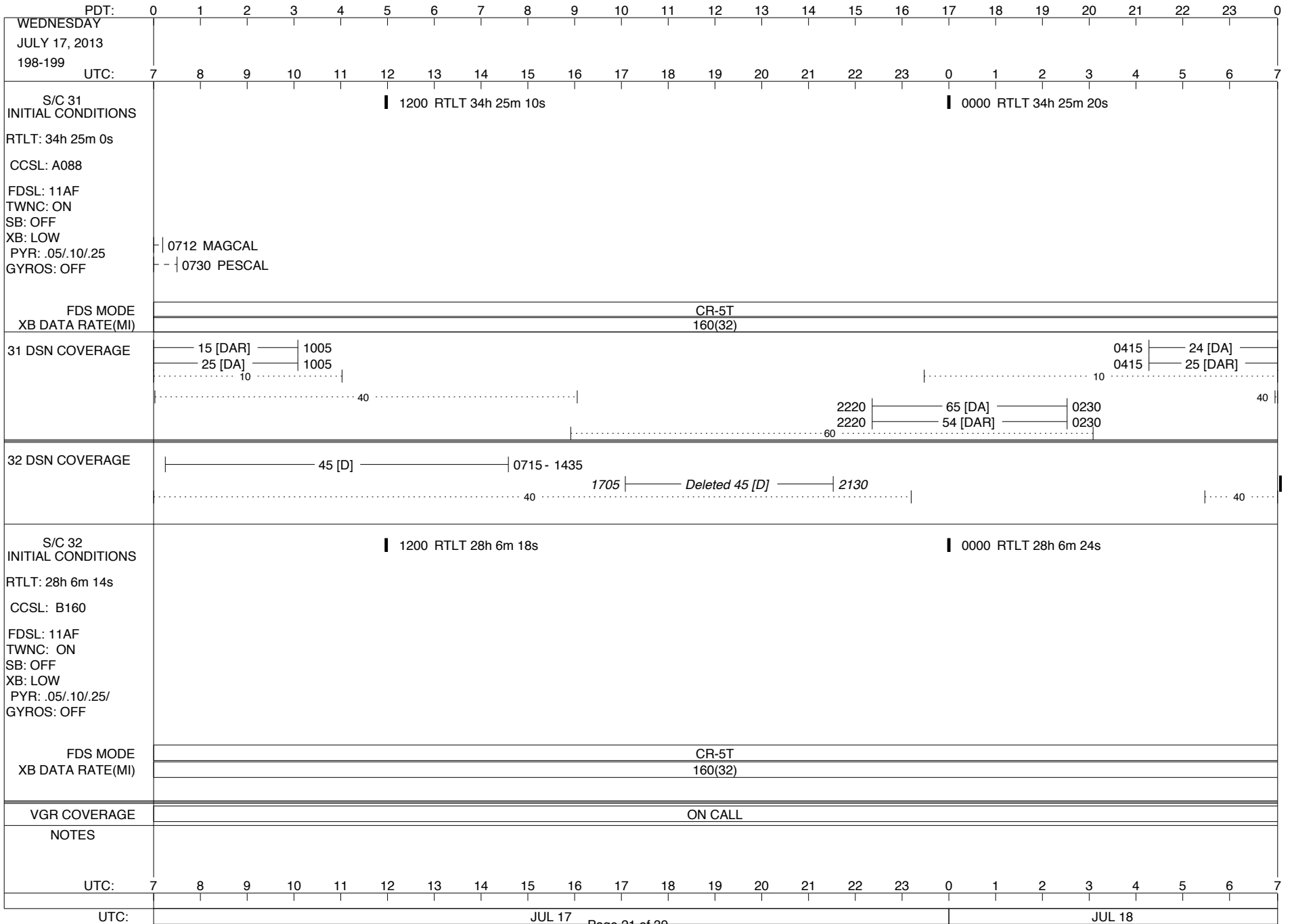
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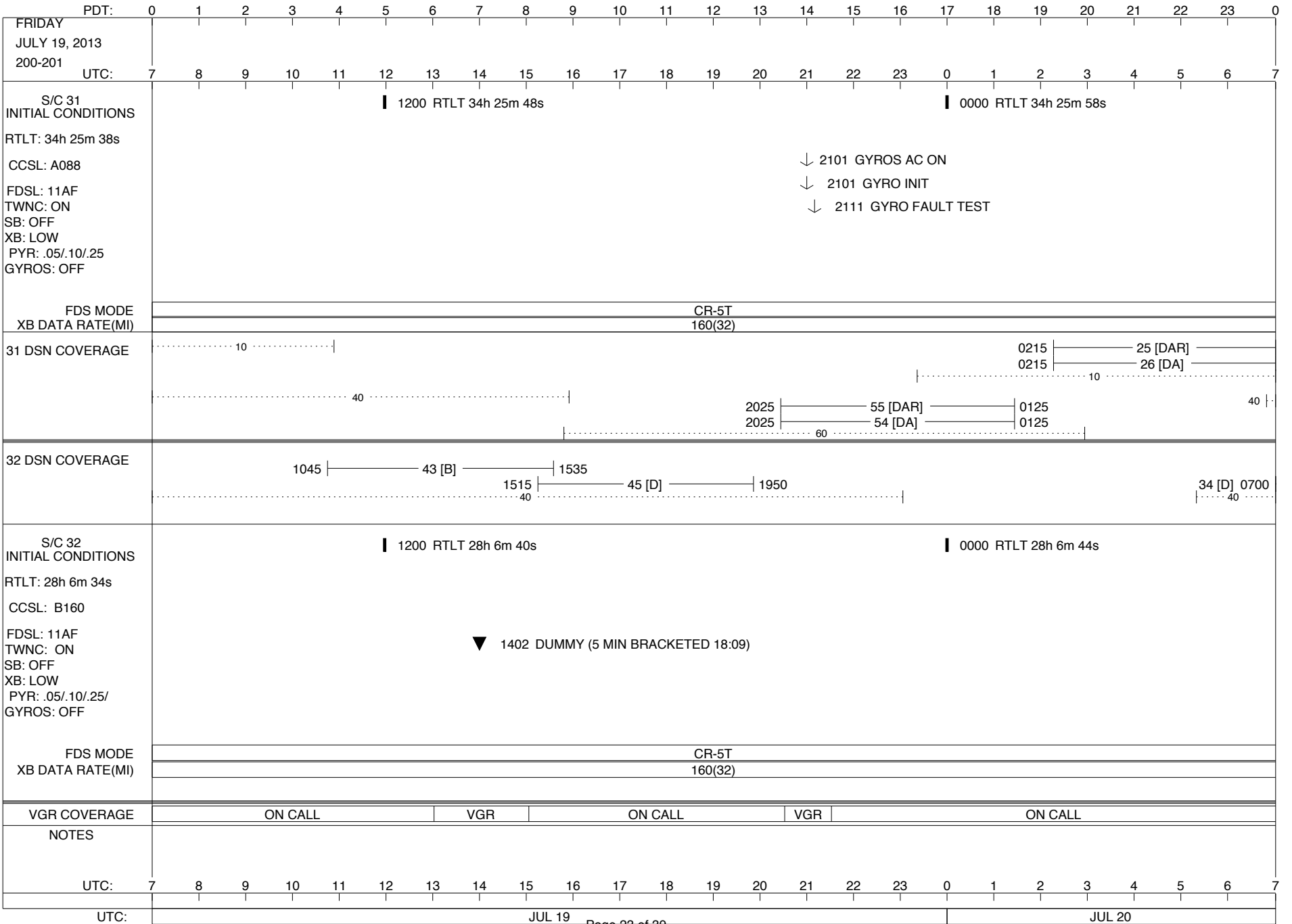
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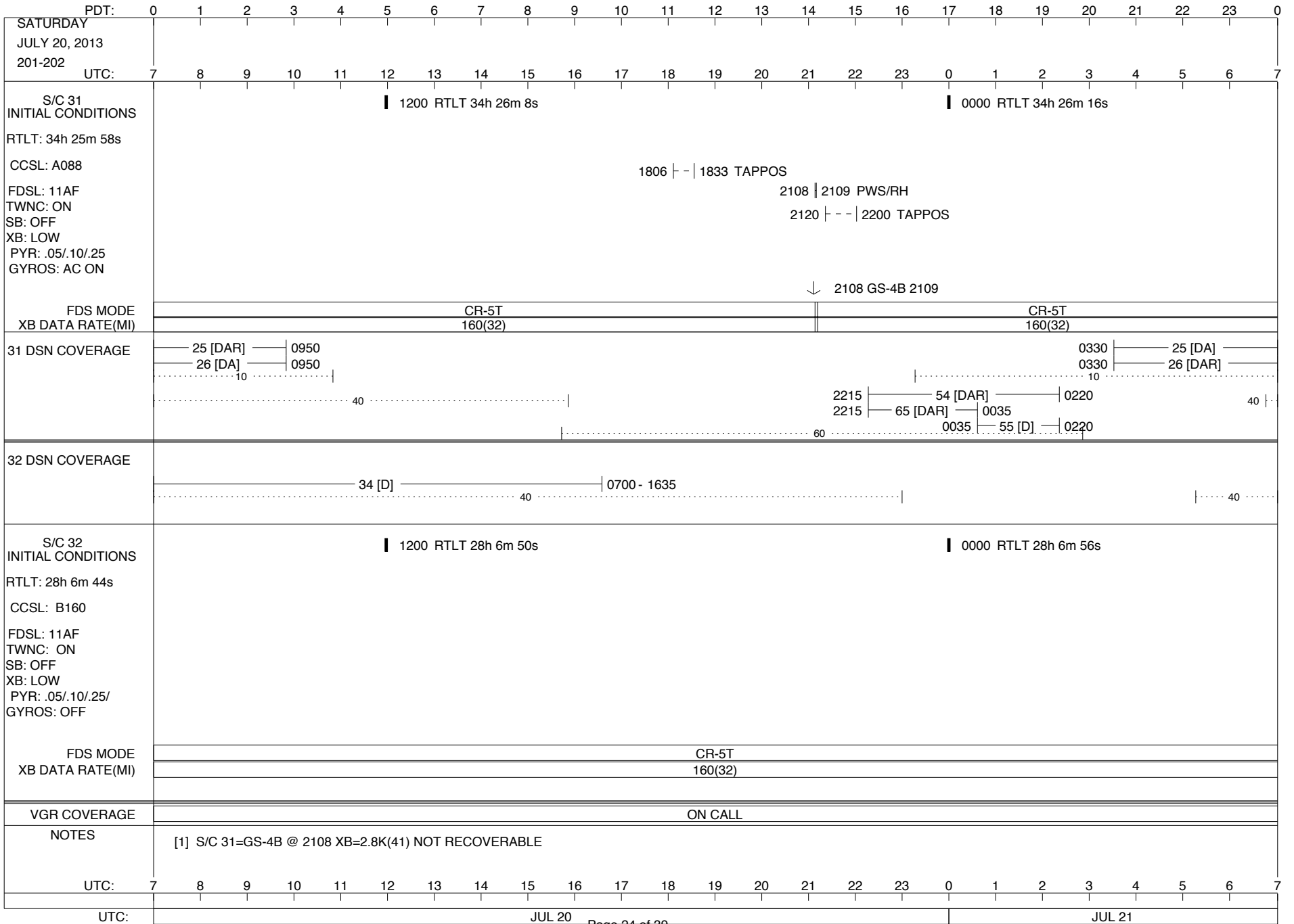
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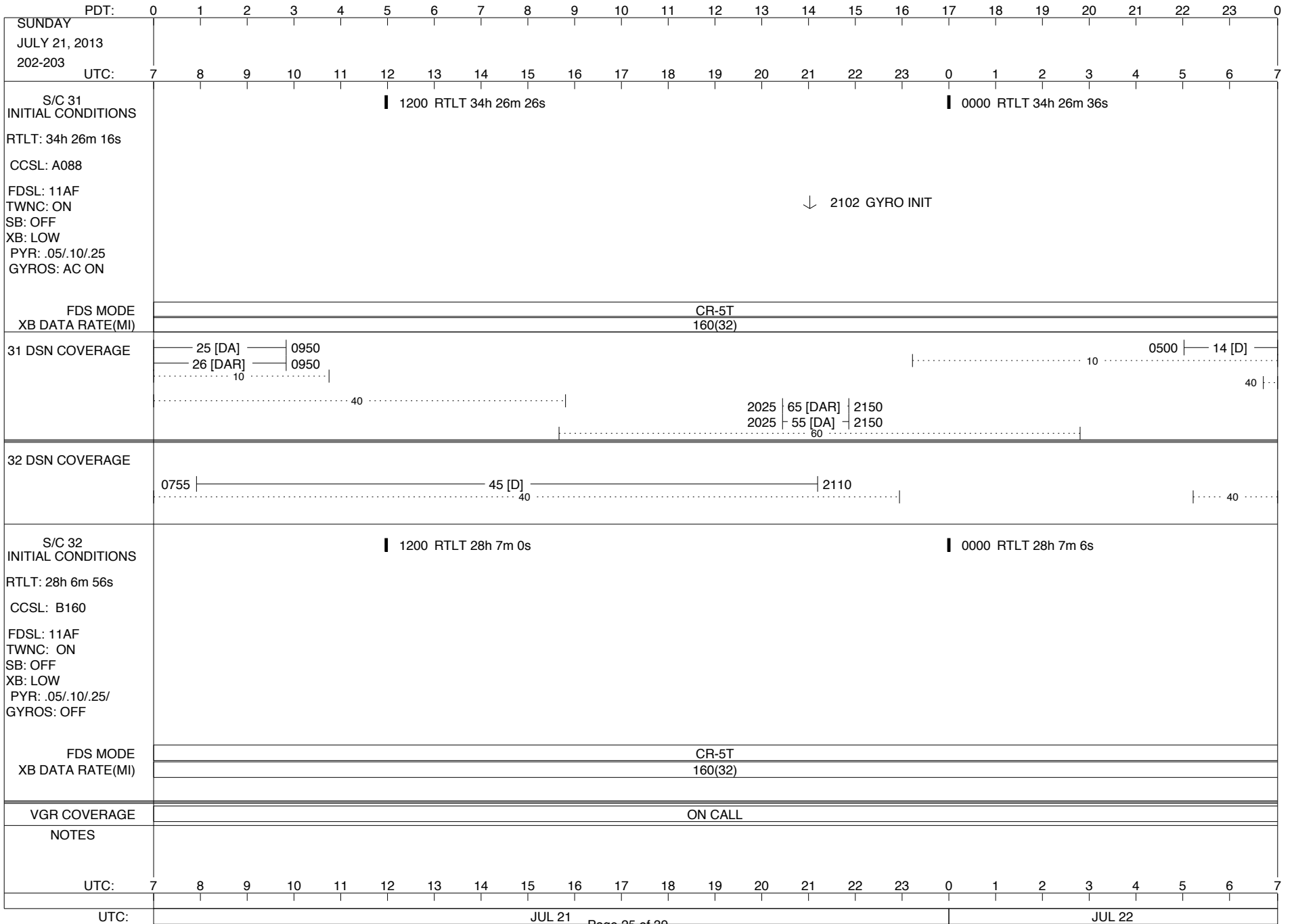
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S/C 31 INITIAL CONDITIONS RTLT: 34h 25m 20s CCSL: A088 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 34h 25m 30s												0000 RTLT 34h 25m 38s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	24 [DA] 1000 25 [DAR] 1000 10												10												
	40												40												
	40												60												
32 DSN COVERAGE	45 [D] 0710 - 1220												1755 34 [D] 2125												
	40												40												
S/C 32 INITIAL CONDITIONS RTLT: 28h 6m 24s CCSL: B160 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 28h 6m 30s												0000 RTLT 28h 6m 34s												
FDS MODE	CR-5T																								
XB DATA RATE(MI)	160(32)																								
VGR COVERAGE													ON CALL												
NOTES	[1] S/C 31=GS-4B @ 1807 XB=2.8K(41) NOT RECOVERABLE																								
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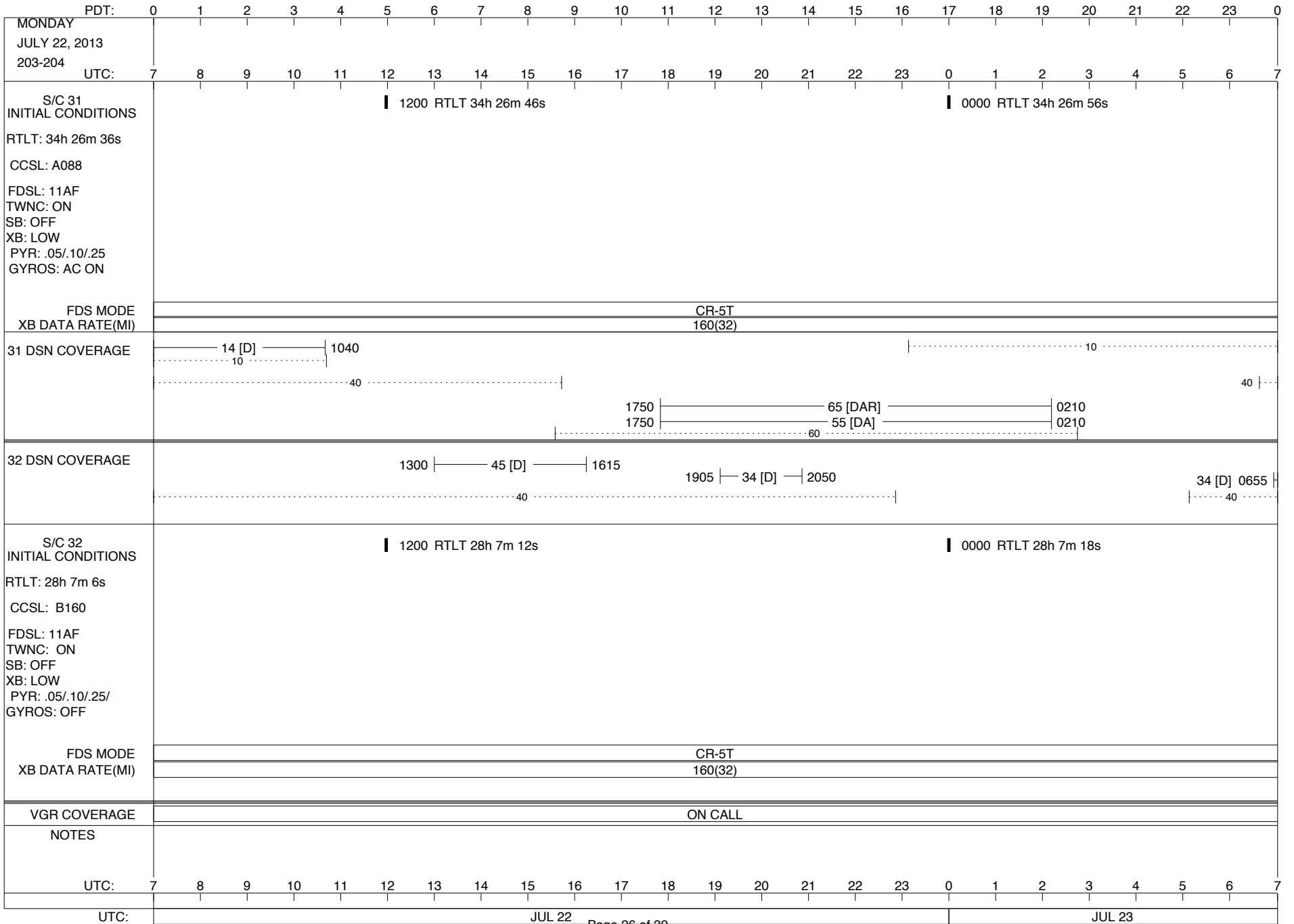




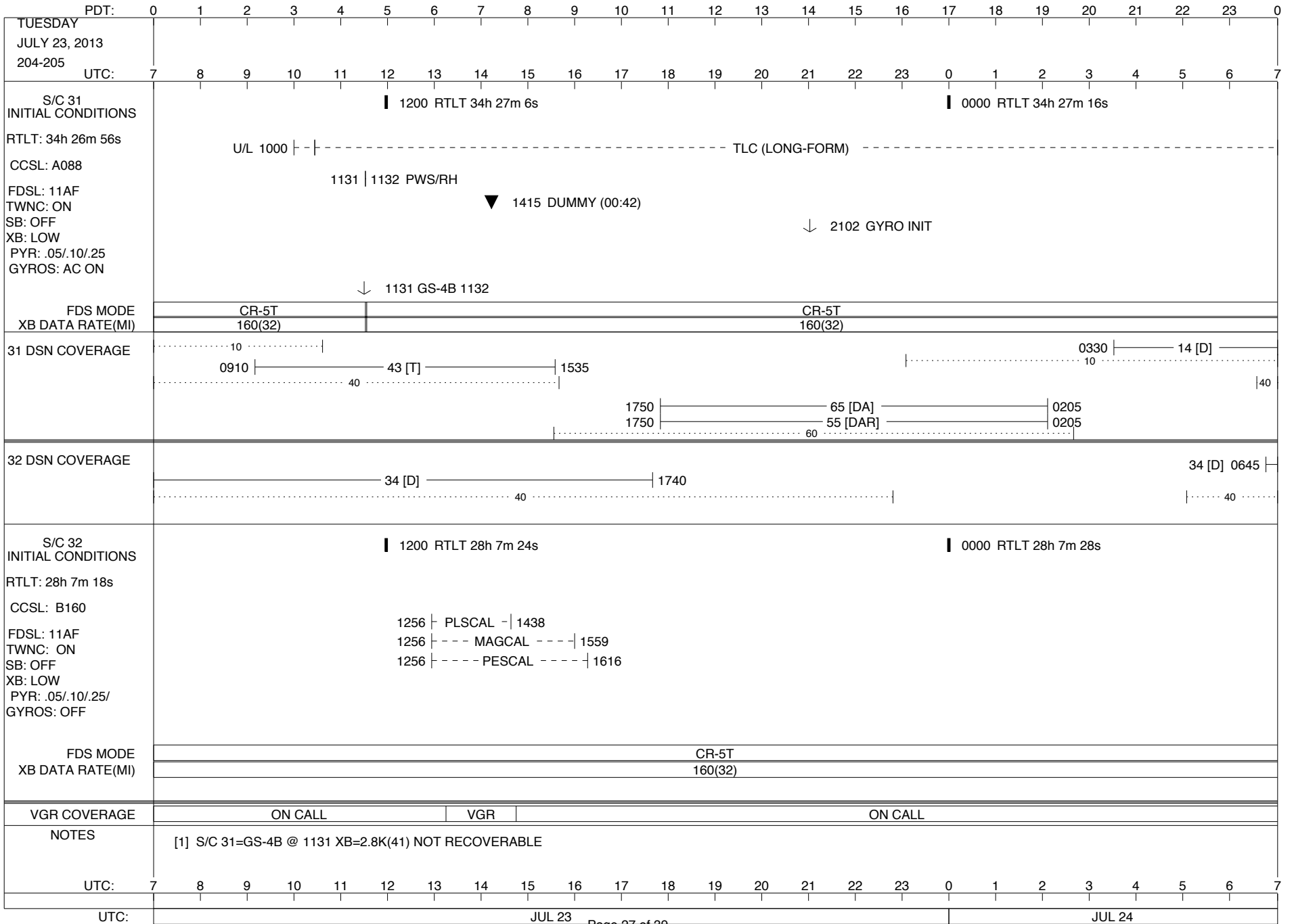




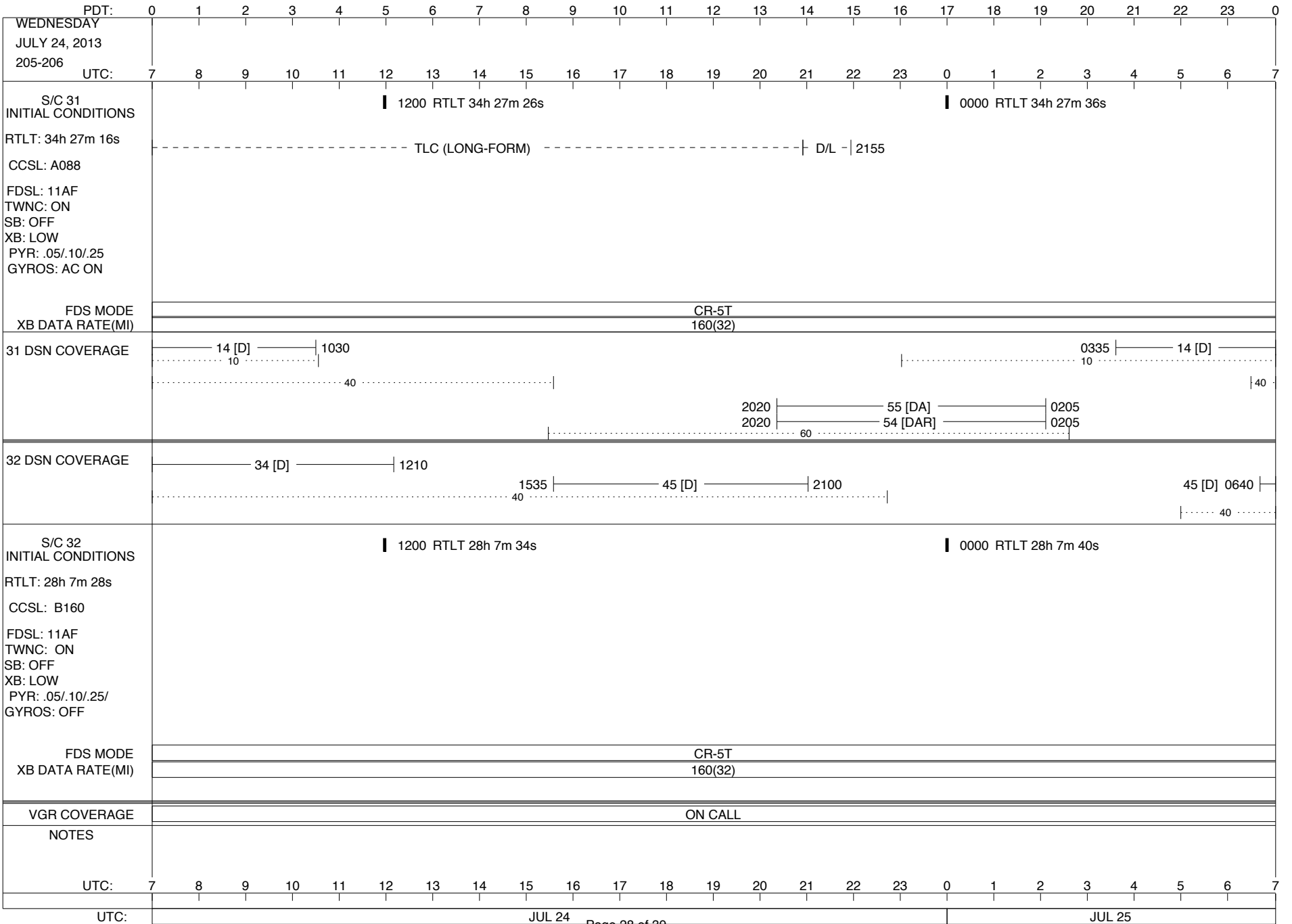
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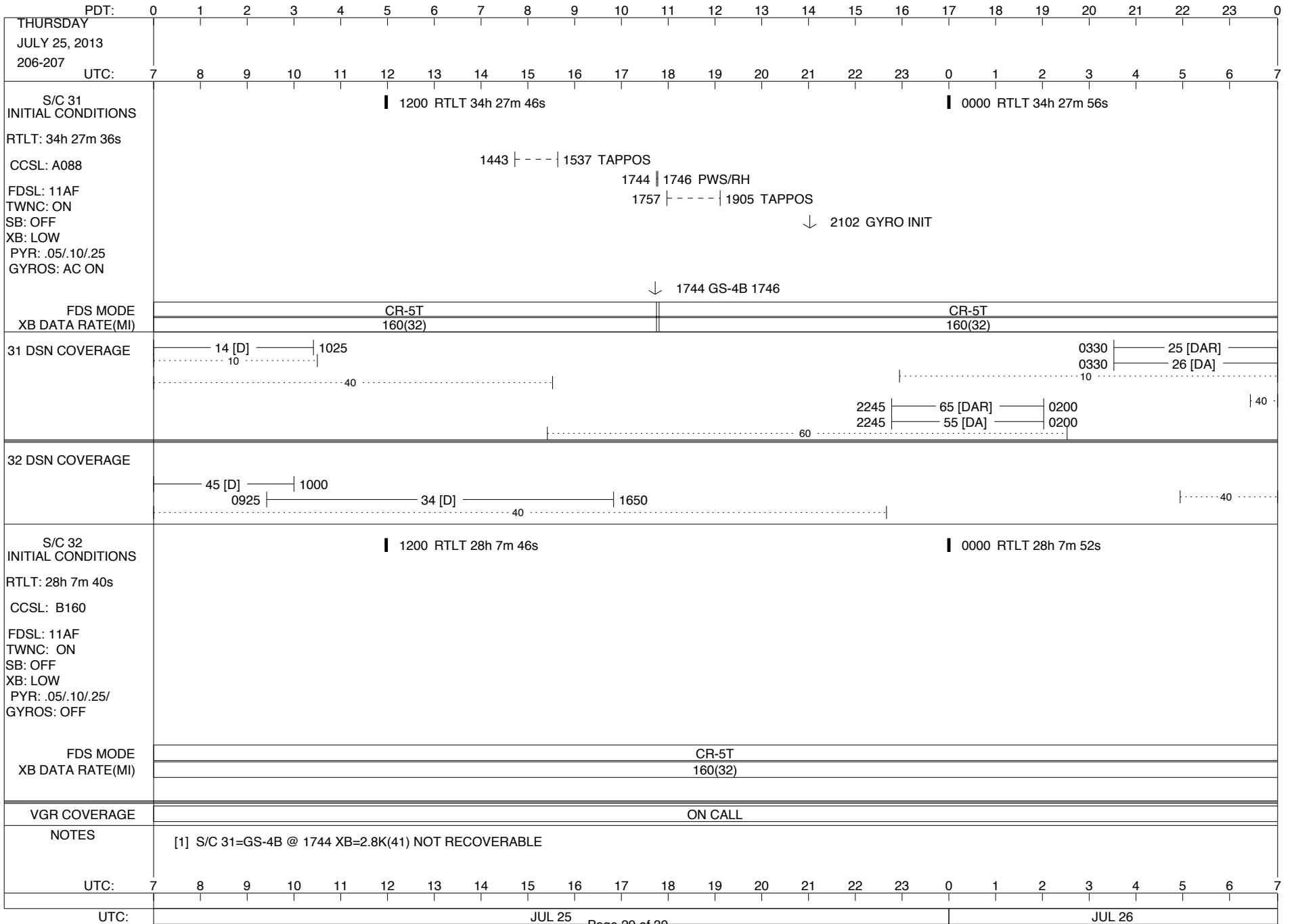


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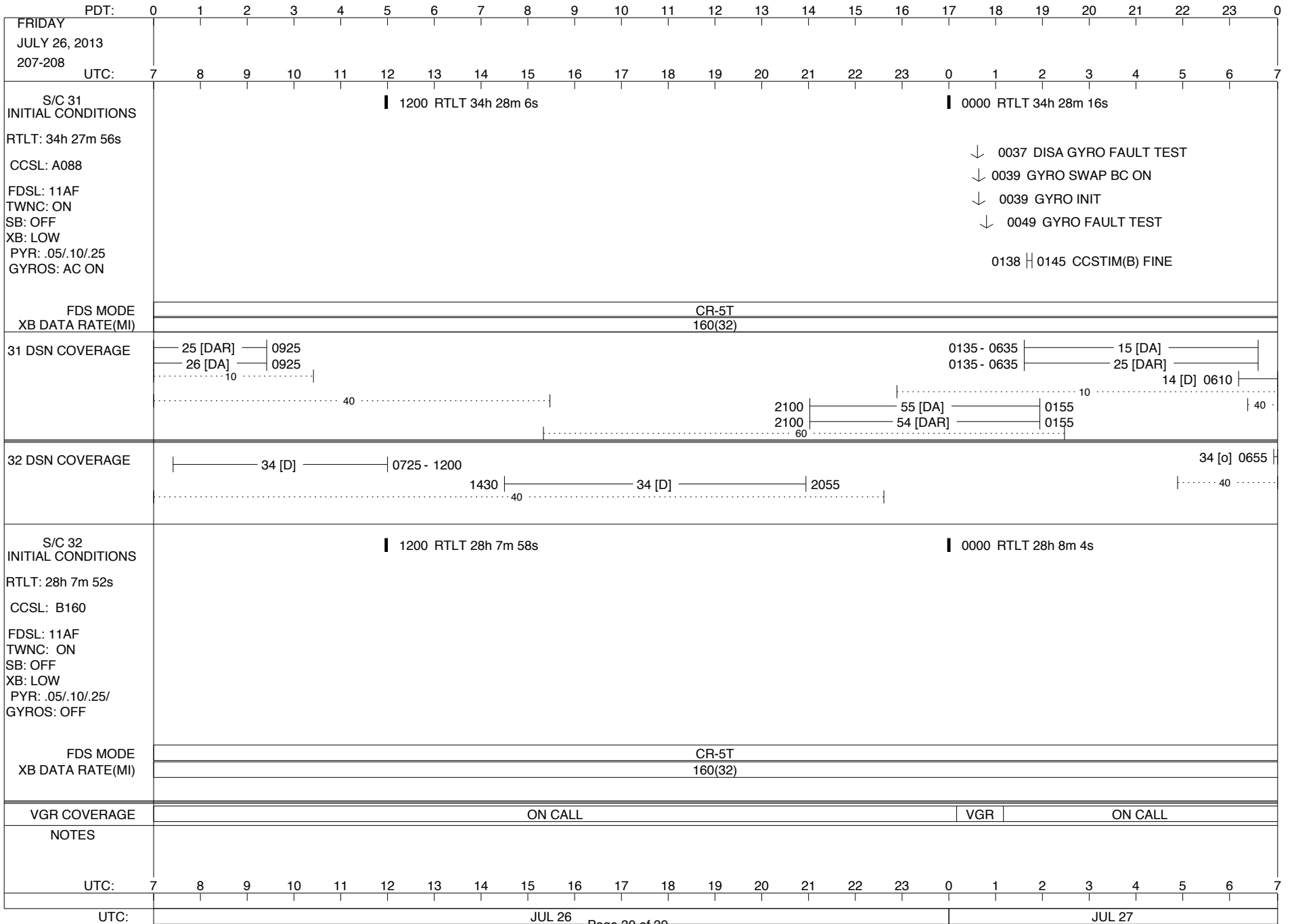


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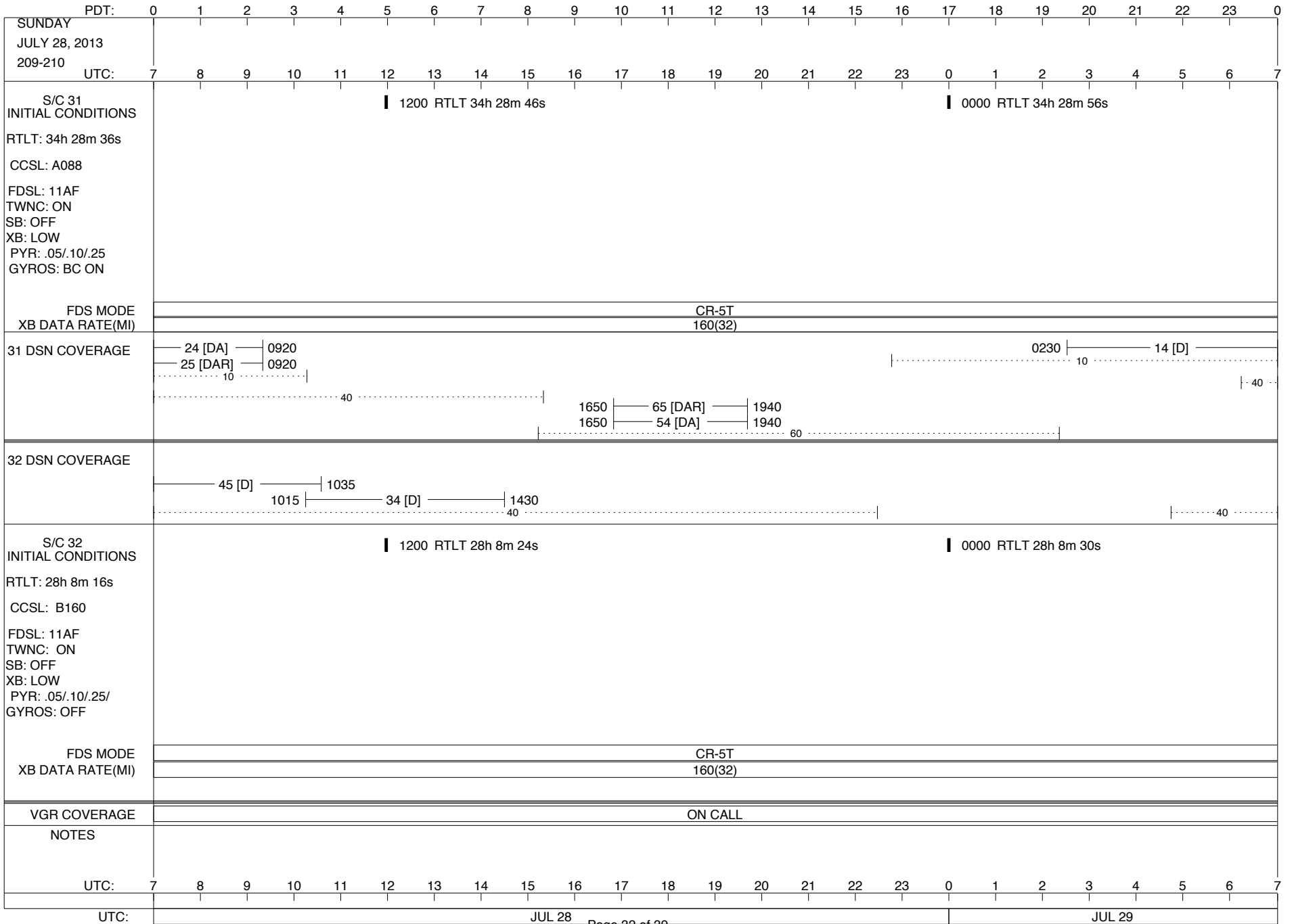


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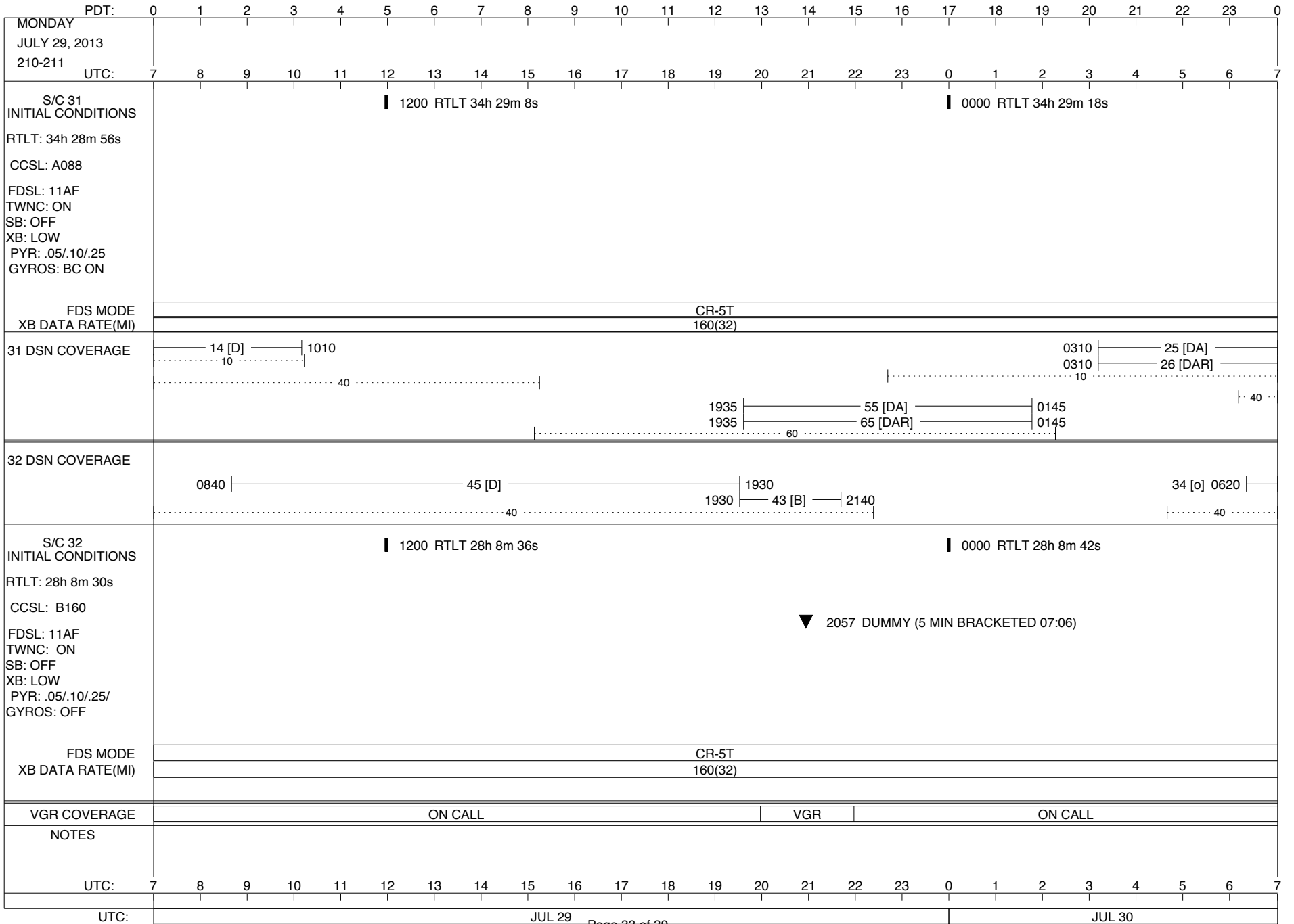
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S/C 31 INITIAL CONDITIONS RTLTL: 34h 28m 16s CCSL: A088 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: BC ON	1200 RTLTL 34h 28m 26s												0000 RTLTL 34h 28m 36s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	14 [D] 1020 10 40												0125 24 [DA] 0125 25 [DAR] 10 40												
32 DSN COVERAGE	34 [o] 1445 40												45 [D] 0630 40												
S/C 32 INITIAL CONDITIONS RTLTL: 28h 8m 4s CCSL: B160 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 28h 8m 10s												0000 RTLTL 28h 8m 16s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE	ON CALL																								
NOTES	[1] S/C 31=GS-4B @ 2045 XB=2.8K(41) NOT RECOVERABLE																								
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												



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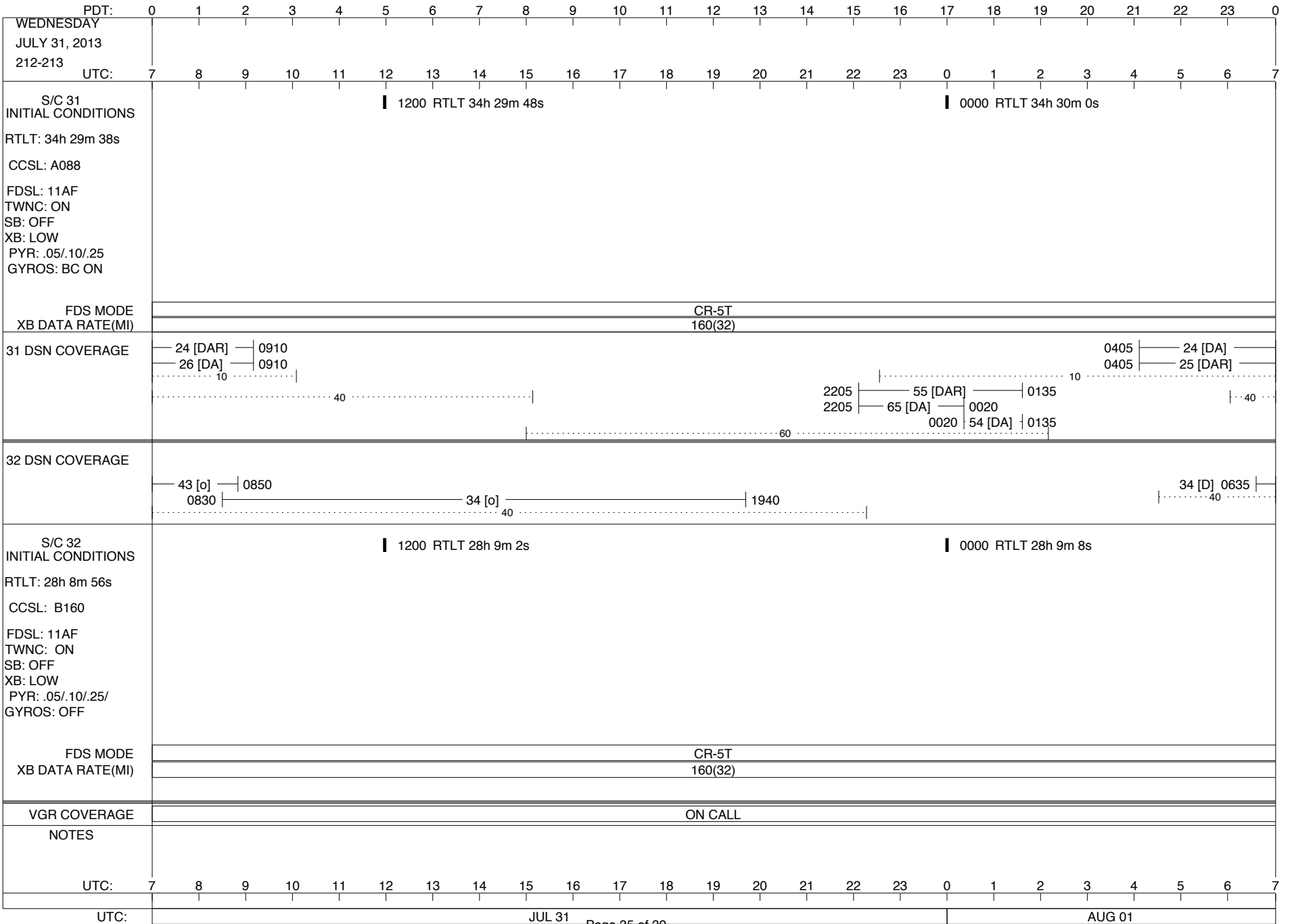
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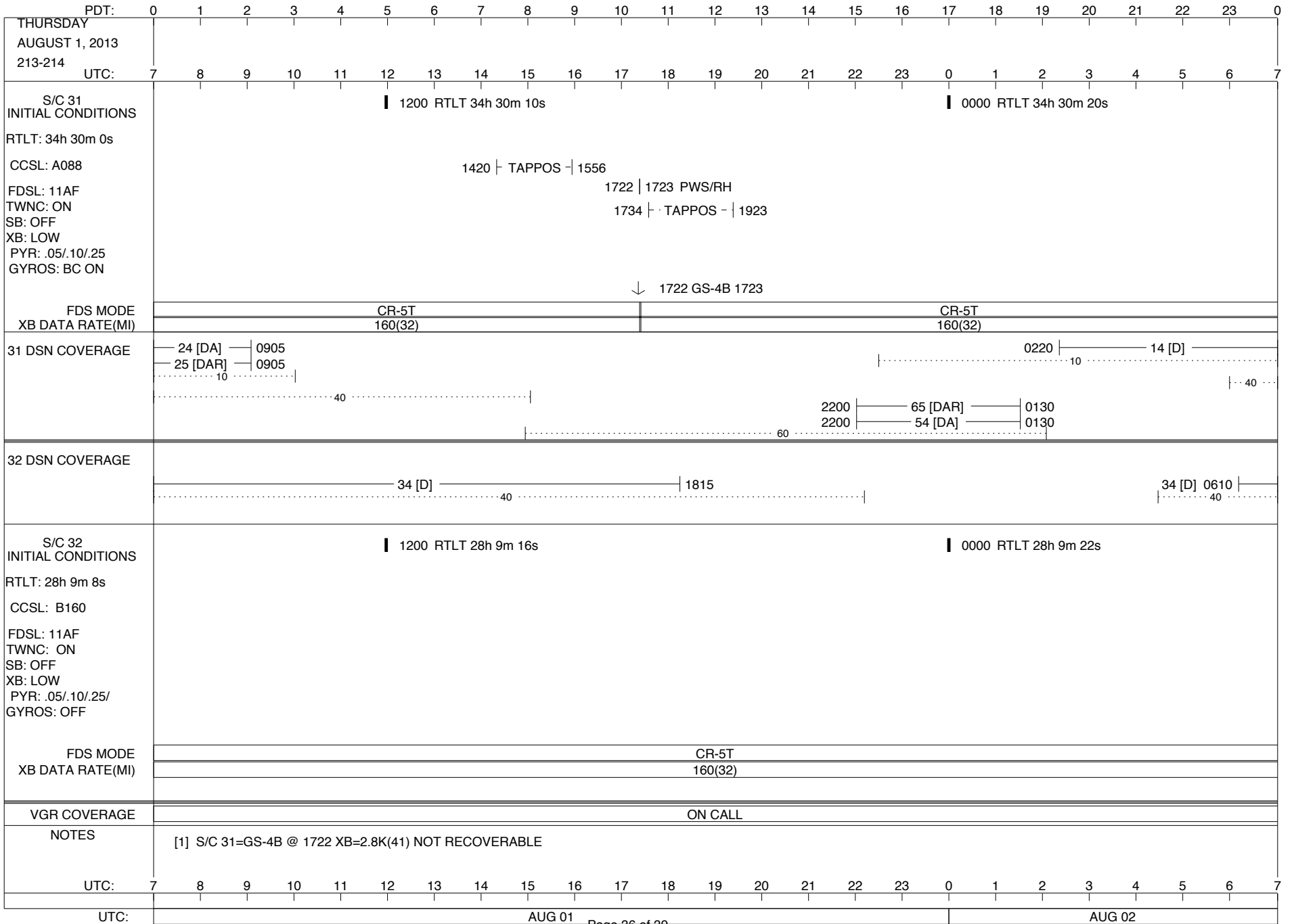
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PDT:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	
TUESDAY JULY 30, 2013 211-212	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
S/C 31 INITIAL CONDITIONS RTLTL: 34h 29m 18s CCSL: A088 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: BC ON	1200 RTLTL 34h 29m 28s												0000 RTLTL 34h 29m 38s													
1108   1109 PWS/RH													↓ 0139 GYRO INIT													
↓ 1108 GS-4B 1109																										
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
31 DSN COVERAGE	25 [DA] 0910 26 [DAR] 0910 .....  .....40.....												0310 24 [DAR] 0310 26 [DAR] .....10.....  .....40.....													
	1915 65 [DA] 1915 55 [DAR] .....60.....												0140 0140 .....													
32 DSN COVERAGE	34 [o] 1510 1450 45 [D] 1950 .....40.....												43 [o] 0645 .....40.....													
S/C 32 INITIAL CONDITIONS RTLTL: 28h 8m 42s CCSL: B160 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 28h 8m 48s												0000 RTLTL 28h 8m 56s													
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
VGR COVERAGE													ON CALL													
NOTES	[1] S/C 31=GS-4B @ 1108 XB=2.8K(41) NOT RECOVERABLE																									
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: 07/15/13 16:01



ISSUE DATE: 07/15/13 16:01



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 AUGUST 2, 2013 214-215																												
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: 34h 30m 20s CCSL: A088 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: BC ON	1200 RTLT 34h 30m 30s												0000 RTLT 34h 30m 42s ↓ 0126 BAY 1 HTR OFF ↓ 0130 X/B HI POWER ↓ 0150 AAI 0152  -----MAGROL-----															
FDS MODE	CR-5T																											
XB DATA RATE(MI)	160(32)																											
31 DSN COVERAGE	14 [D]   0935 ----- 10												2320   14 [DAR]   2320   26 [DA]   ----- 10															
	40												1955   55 [DAR]   2340   40 1955   54 [DA]   2340															
	60																											
32 DSN COVERAGE	34 [D]   1315 ----- 40												1645   34 [D]   2025   0420   43 [D]   ----- 40															
S/C 32 INITIAL CONDITIONS RTLT: 28h 9m 22s CCSL: B160 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 28h 9m 28s												0000 RTLT 28h 9m 36s															
FDS MODE	CR-5T																											
XB DATA RATE(MI)	160(32)																											
VGR COVERAGE	ON CALL																	VGR										
NOTES	[1] S/C 31 - D/L AGC VARIATIONS EXPECTED DURING MAGROL (0152-0748)																											
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 02														AUG 03													

ISSUE DATE: 07/15/13 16:01

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 3, 2013 215-216	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: 34h 30m 42s CCSL: A088 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON	1200 RTLT 34h 30m 52s												0000 RTLT 34h 31m 2s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	14 [DAR] 0900 26 [DA] 0900 0830 43 [D] 1035												1721 TAPPOS 1910 2022 2023 PWS/RH 2034 TAPPOS 2238 2155 65 [DAR] 0125 2155 55 [DA] 0125 0450 24 [DAR] 0450 26 [DA]												
32 DSN COVERAGE	0740 43 [D] 34 [D] 0720-1710																								
S/C 32 INITIAL CONDITIONS RTLT: 28h 9m 36s CCSL: B160 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 28h 9m 42s												0000 RTLT 28h 9m 50s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE	VGR												ON CALL												
NOTES	[1] S/C 31=GS-4B @ 2022 XB=2.8K(41) NOT RECOVERABLE																								
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 03												AUG 04												

ISSUE DATE: 07/15/13 16:01

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 AUGUST 4, 2013 216-217																											
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: 34h 31m 2s CCSL: A088 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON	1200 RTLT 34h 31m 14s																										
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
31 DSN COVERAGE	<div style="display: flex; justify-content: space-between;"> <div style="width: 15%;"> <p>24 [DAR]   0850</p> <p>26 [DA]   0850</p> <p>..... 10 .....</p> </div> <div style="width: 70%; text-align: center;"> <p>..... 40 .....</p> </div> </div>																										
32 DSN COVERAGE	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>1010  </p> <p>..... 40 .....</p> </div> <div style="width: 40%; text-align: center;"> <p>43</p> </div> <div style="width: 25%;"> <p>  1935</p> <p>.....</p> </div> </div>																										
S/C 32 INITIAL CONDITIONS RTLT: 28h 9m 50s CCSL: B160 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 28h 9m 56s																										
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 04													AUG 05													