

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: August 1, 2018

For the Period: 08/02/18 to 08/20/18 (18/214 – 18/232)

**DSN OPSCHIEF**                      **230-102**

**SCIENCE**

**FLIGHT TEAM**

**600-100**

**DSOT**                                      **230-102**

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 MAG u2mha@lepvax.gsfc.nasa.gov  
 PLS vgr@space.mit.edu  
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 Leonard.F.Burlaga@nasa.gov  
 Donald-Gurnett@uiowa.edu

Dodd, S.  
 Hall, J.  
 Howard, S.  
 Ko, A.  
 Ledeboer, W.  
 Ludwig, R.  
 Matsumoto, S.  
 Medina, E.  
 Peralta, F.  
 Weeks, T.  
 Yang, L.

**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

Posted at [http://voyager.jpl.nasa.gov/mission/soesfos/tracking\\_schedule.html](http://voyager.jpl.nasa.gov/mission/soesfos/tracking_schedule.html)

02/27/17

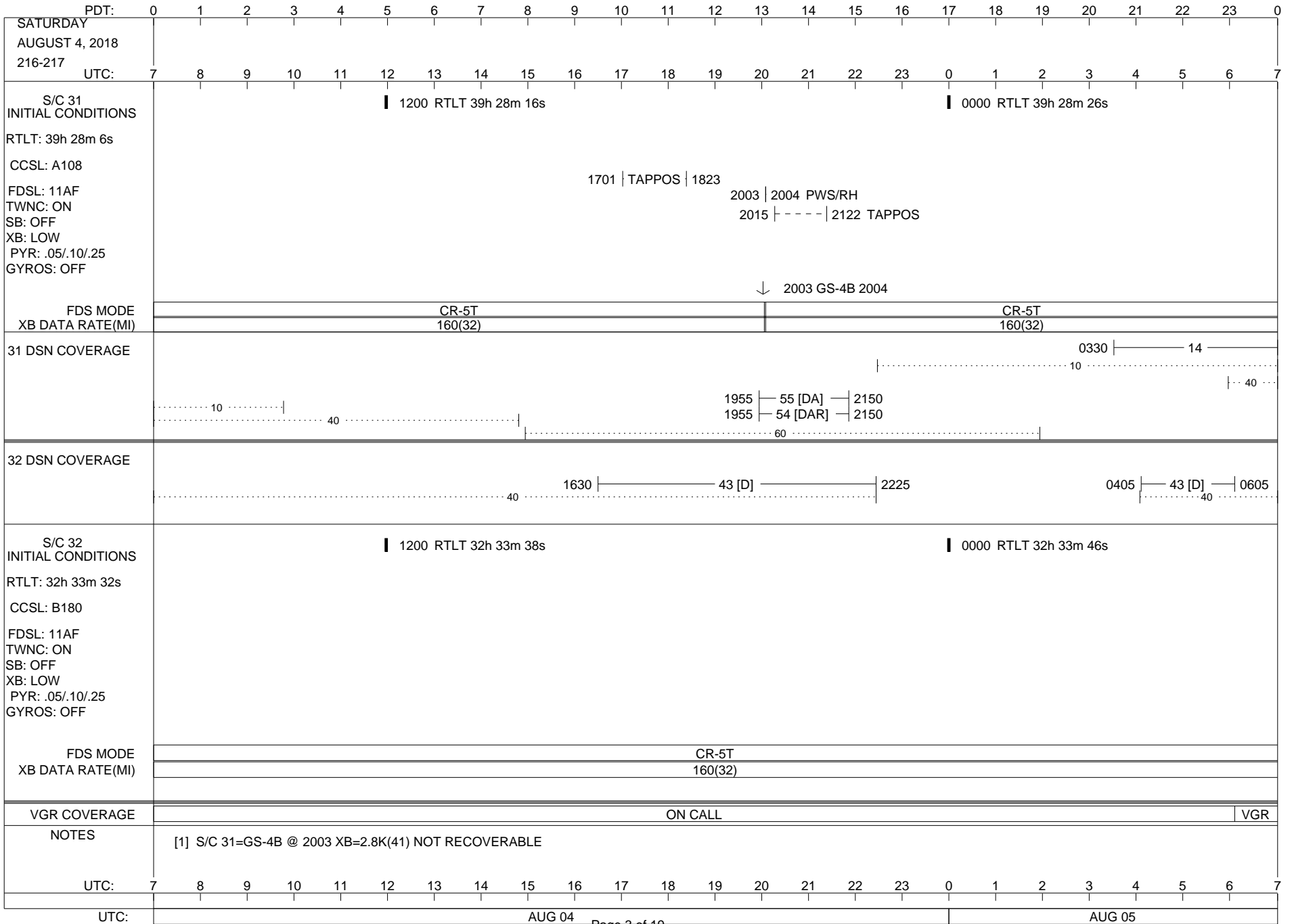
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THURSDAY AUGUST 2, 2018 214-215																												
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7			
S/C 31 INITIAL CONDITIONS RTLTL: 39h 27m 24s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="display: flex; justify-content: space-between;"> <div> <p>1200 RTLT 39h 27m 34s</p> <p>1401   TAPPOS   1536</p> <p>1702   1704 PWS/RH</p> <p>1714   TAPPOS   1836</p> </div> <div> <p>1702 GS-4B 1704</p> </div> <div> <p>0000 RTLT 39h 27m 44s</p> </div> </div>																											
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)														CR-5T 160(32)													
31 DSN COVERAGE	<p>..... 10 .....  </p> <p>..... 40 .....  </p> <p>..... 60 .....  </p>														<p>0200  ----- 14 [D] -----  0600</p> <p>..... 10 .....  </p> <p>..... 40 .....  </p>													
32 DSN COVERAGE	<p>..... 40 .....  </p> <p>..... 1810  ----- 43 [D] -----  2215</p> <p>..... 40 .....  </p>																											
S/C 32 INITIAL CONDITIONS RTLTL: 32h 33m 4s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="display: flex; justify-content: space-between;"> <div> <p>1200 RTLT 32h 33m 12s</p> </div> <div> <p>0000 RTLT 32h 33m 18s</p> </div> </div>																											
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																											
VGR COVERAGE	ON CALL																											
NOTES	[1] S/C 31=GS-4B @ 1702 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 02														AUG 03													

ISSUE DATE: 08/04/18 20:55

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FRIDAY AUGUST 3, 2018 215-216																												
S/C 31 INITIAL CONDITIONS RTLT: 39h 27m 44s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 27m 56s														0000 RTLT 39h 28m 6s													
FDS MODE	CR-5T														CR-5T													
XB DATA RATE(MI)	160(32)														160(32)													
31 DSN COVERAGE	<p>31 DSN COVERAGE</p> <p>..... 10 .....   2250  ----- 14 [DA] -----  0530</p> <p>0205 ----- 24 [DA] -----  0530</p> <p>0205 ----- 25 [DAR] -----  0530</p> <p>0205 ----- 26 [DA] -----  0530</p> <p>..... 40 .....   ..... 60 .....   ..... 10 .....   ..... 40 .....</p>																											
32 DSN COVERAGE	<p>32 DSN COVERAGE</p> <p>..... 40 .....   1815  ----- 43 [o] -----  2225   ..... 40 .....</p>																											
S/C 32 INITIAL CONDITIONS RTLT: 32h 33m 18s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 33m 26s														0000 RTLT 32h 33m 32s													
FDS MODE	CR-5T																											
XB DATA RATE(MI)	160(32)																											
VGR COVERAGE	ON CALL														VGR							ON CALL						
NOTES	[1] S/C 31 - D/L AGC VARIATIONS EXPECTED DURING MAGROL (0314-0426)																											
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ISSUE DATE: 08/04/18 20:55



ISSUE DATE: 08/04/18 20:55

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SUNDAY AUGUST 5, 2018 217-218	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: 39h 28m 26s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 28m 38s												0000 RTLT 39h 28m 48s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	0715 14 ..... 10 ..... ..... 40 ..... ..... 60 ..... ..... 40 .....												..... 10 ..... ..... 40 .....												
32 DSN COVERAGE	..... 40 ..... ..... 1700 ..... ..... 43 [D] ..... ..... 2220 ..... ..... 40 .....												..... 40 .....												
S/C 32 INITIAL CONDITIONS RTLT: 32h 33m 46s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 33m 52s												0000 RTLT 32h 34m 0s												
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
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ISSUE DATE: 08/04/18 20:55

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MONDAY AUGUST 6, 2018 218-219																									
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S/C 31 INITIAL CONDITIONS RTLT: 39h 28m 48s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 29m 0s												0000 RTLT 39h 29m 10s												
FDS MODE	CR-5T												EL-40		CR-5T										
XB DATA RATE(MI)	160(32)												40(30)		160(32)										
31 DSN COVERAGE	..... 10 .....												2225  -----  14 [D] -----  0225  -----  10												
	0930  -----  43 [D] -----  1350  -----  40												-----  60 .....  -----  40												
32 DSN COVERAGE	..... 40												1635  -----  43 [D] -----  2215  -----  40												
S/C 32 INITIAL CONDITIONS RTLT: 32h 34m 0s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 34m 8s												0000 RTLT 32h 34m 14s												
FDS MODE	CR-5T																								
XB DATA RATE(MI)	160(32)																								
VGR COVERAGE	ON CALL																								
NOTES	[1] S/C 31=EL-40 @ 2235 XB=40(30) [2] S/C 31=CR-5T @ 0120 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:	AUG 06												AUG 07												

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 AUGUST 7, 2018 219-220	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: 39h 29m 10s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 29m 20s												0000 RTLT 39h 29m 32s															
FDS MODE	CR-5T												CR-5T															
XB DATA RATE(MI)	160(32)												160(32)															
31 DSN COVERAGE	.....10.....												.....10.....															
	.....40.....												.....40.....															
	.....60.....												.....60.....															
32 DSN COVERAGE	1000  -----43 [H]----- 1420												.....40.....															
S/C 32 INITIAL CONDITIONS RTLT: 32h 34m 14s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 34m 22s												0000 RTLT 32h 34m 28s															
FDS MODE													CR-5T															
XB DATA RATE(MI)													160(32)															
VGR COVERAGE	ON CALL				VGR				ON CALL																			
NOTES	[1] S/C 31=GS-4B @ 1026 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			
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ISSUE DATE: 08/04/18 20:55

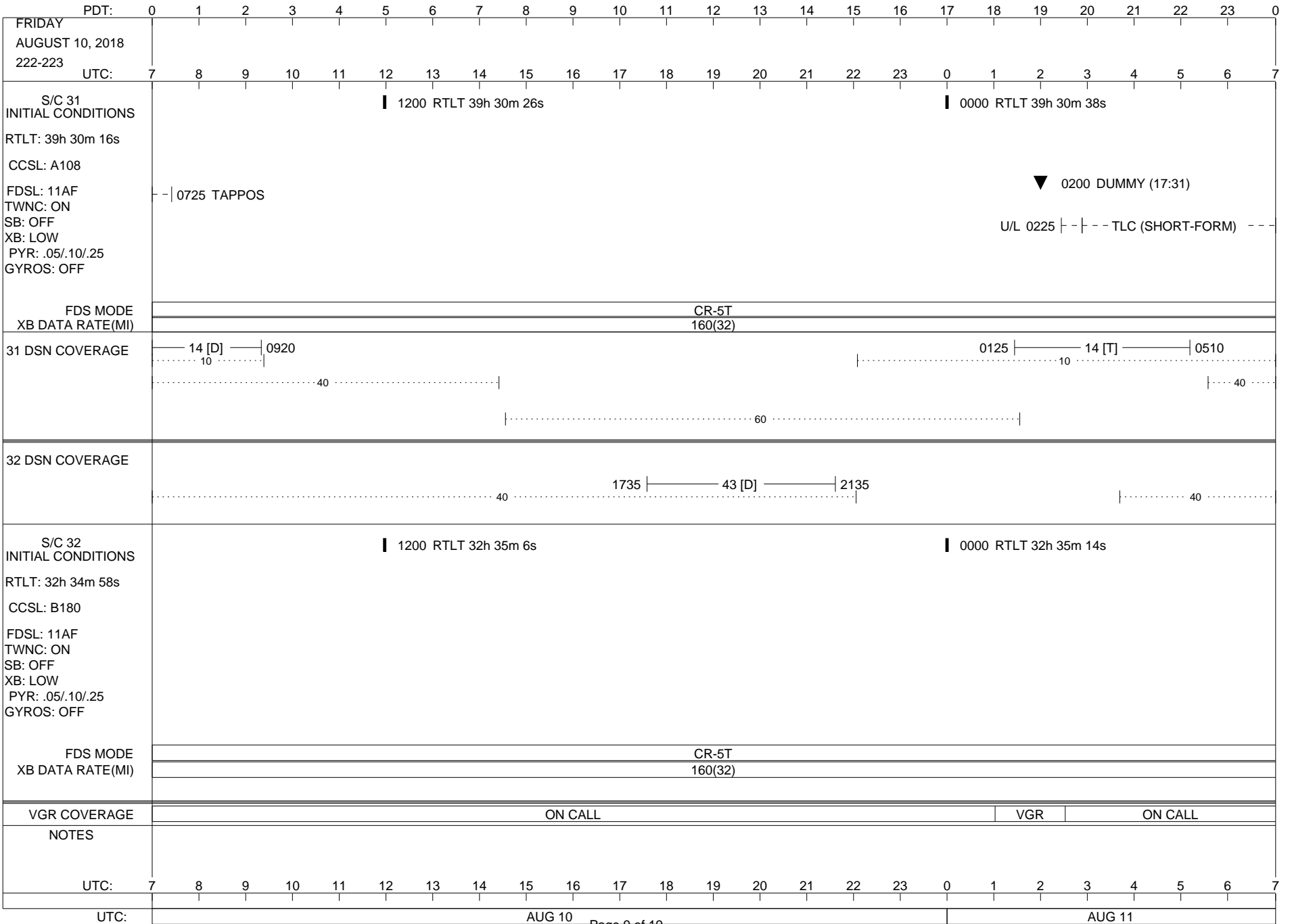
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WEDNESDAY AUGUST 8, 2018 220-221																									
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S/C 31 INITIAL CONDITIONS RTLT: 39h 29m 32s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 29m 42s 0747   - - TAPPOS - -   1005												0000 RTLT 39h 29m 54s ↓ 2351 BAY 1 HTR OFF ↓ 2355 X/B HI POWER ↓ 0014 YAW=.05 0024- 0642   - - - - - PLAYBACK - - - - -   YAW=.10 0652 ↓												
FDS MODE	CR-5T												PB-14												
XB DATA RATE(MI)	160(32)												1.4K(39)												
31 DSN COVERAGE	..... 10 .....   ..... 43 [D] .....   1100 ..... 40 .....   ..... 60 .....   ..... 40 .....												2325   ..... 14 [DA] ..... 2325   ..... 24 [DA] ..... 2325   ..... 25 [DAR] ..... ..... 10 .....   ..... 40 .....												
32 DSN COVERAGE	..... 40 .....   ..... 1745   ..... 43 [D] .....   ..... 2205 .....   ..... 40 .....																								
S/C 32 INITIAL CONDITIONS RTLT: 32h 34m 28s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 34m 36s												0000 RTLT 32h 34m 44s												
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 @ 1935 XB=40(30) [2] S/C 32=CR-5T @ 2106 XB=160(32)												[3] S/C 31=PB-14 @ 0024 XB=1.4K(39) [4] S/C 31=CR-5T @ 0642 XB=160(32)												
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UTC:	AUG 08												AUG 09												



ISSUE DATE: 08/04/18 20:55

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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S/C 31 INITIAL CONDITIONS RTLT: 39h 29m 54s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 30m 4s												0000 RTLT 39h 30m 16s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												TAPPOS 0607   - - -												
31 DSN COVERAGE	14 [DA]   0925 0740 24 [DA] 0740 25 [DAR] 10   40												0520   14 [D]   10   40												
32 DSN COVERAGE	40   1805   43 [D]   2205												40												
S/C 32 INITIAL CONDITIONS RTLT: 32h 34m 44s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 34m 50s												0000 RTLT 32h 34m 58s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE	VGR												ON CALL												
NOTES																									
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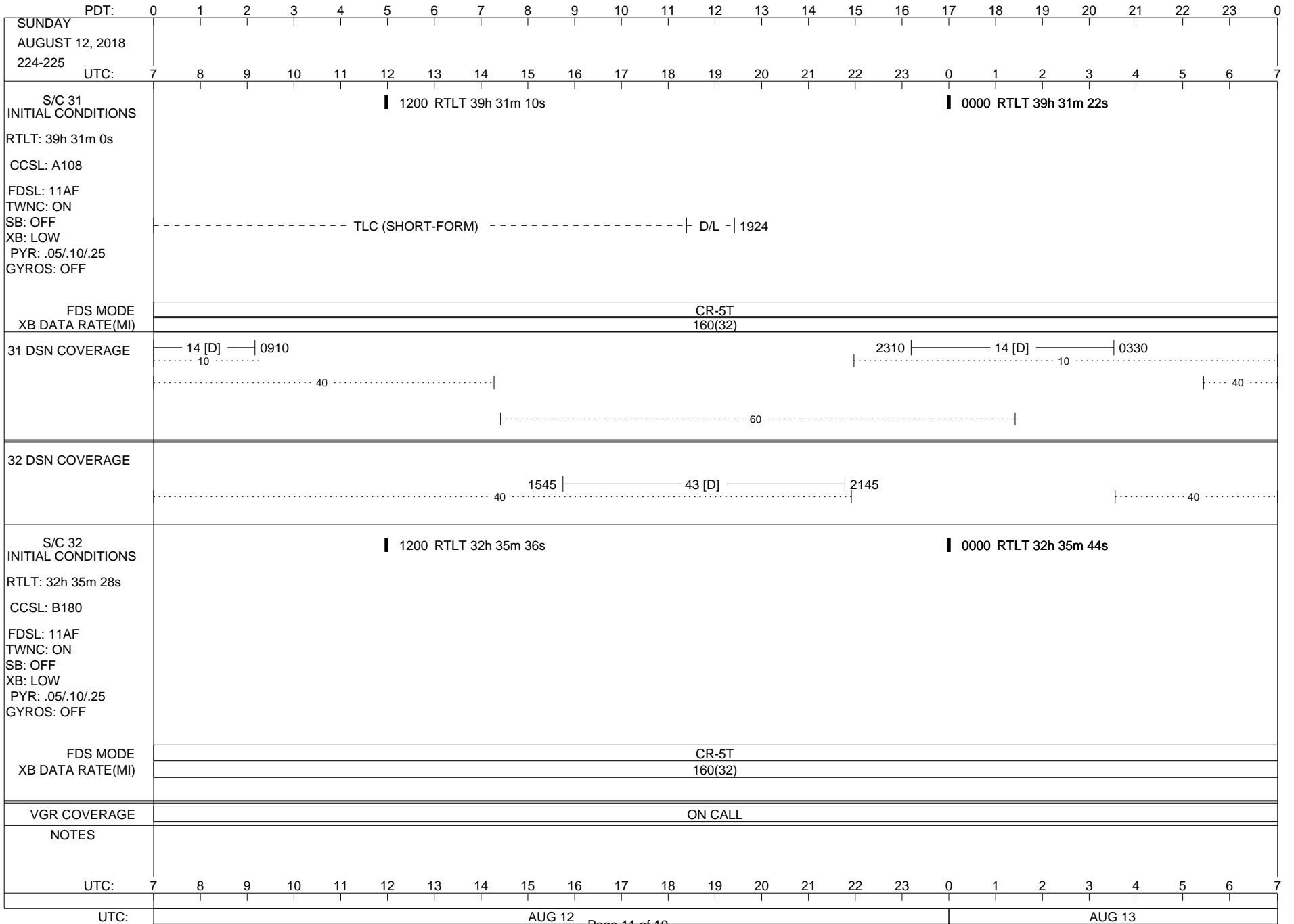
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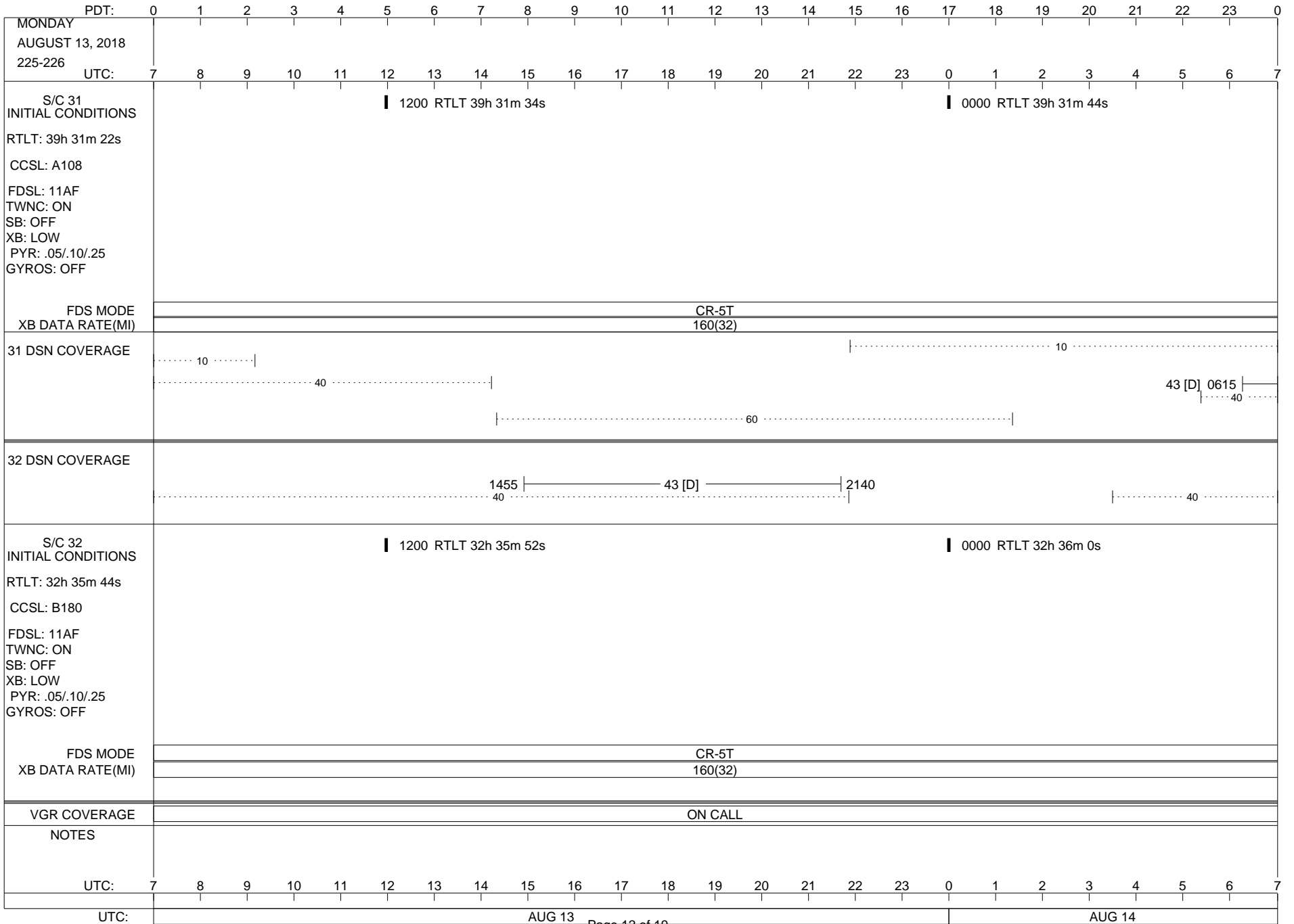
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SATURDAY AUGUST 11, 2018 223-224																									
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S/C 31 INITIAL CONDITIONS RTLT: 39h 30m 38s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 30m 48s												0000 RTLT 39h 31m 0s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	.....10 .....												.....10 .....0410  -----14 [D]-----												
	.....40 .....												.....40 ..... .....40 .....												
	.....60 .....												.....60 .....												
32 DSN COVERAGE	-----43 [o]-----  0700 - 1115												.....40 ..... .....40 .....												
S/C 32 INITIAL CONDITIONS RTLT: 32h 35m 14s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 35m 22s												0000 RTLT 32h 35m 28s												
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:	AUG 11												AUG 12												

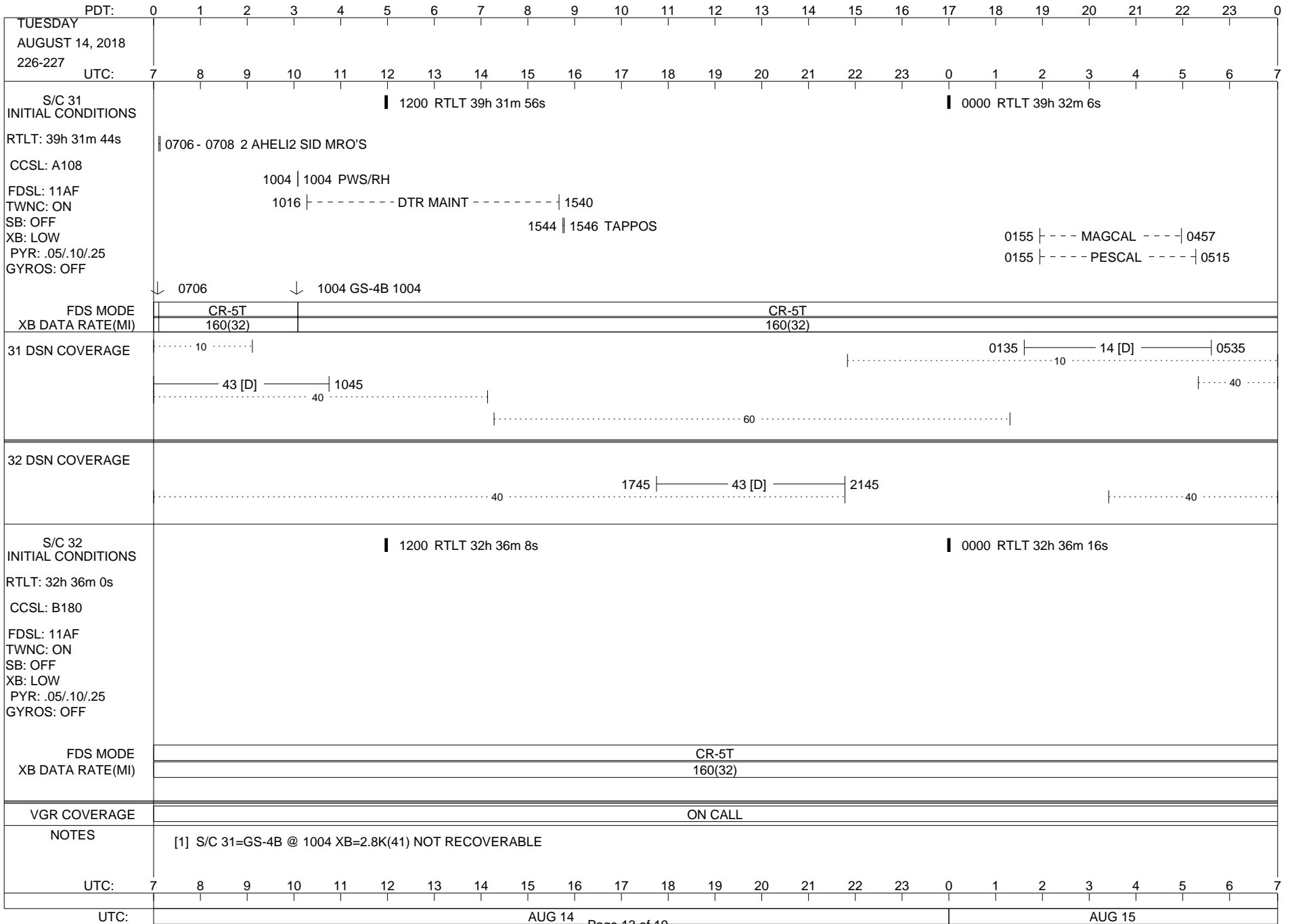
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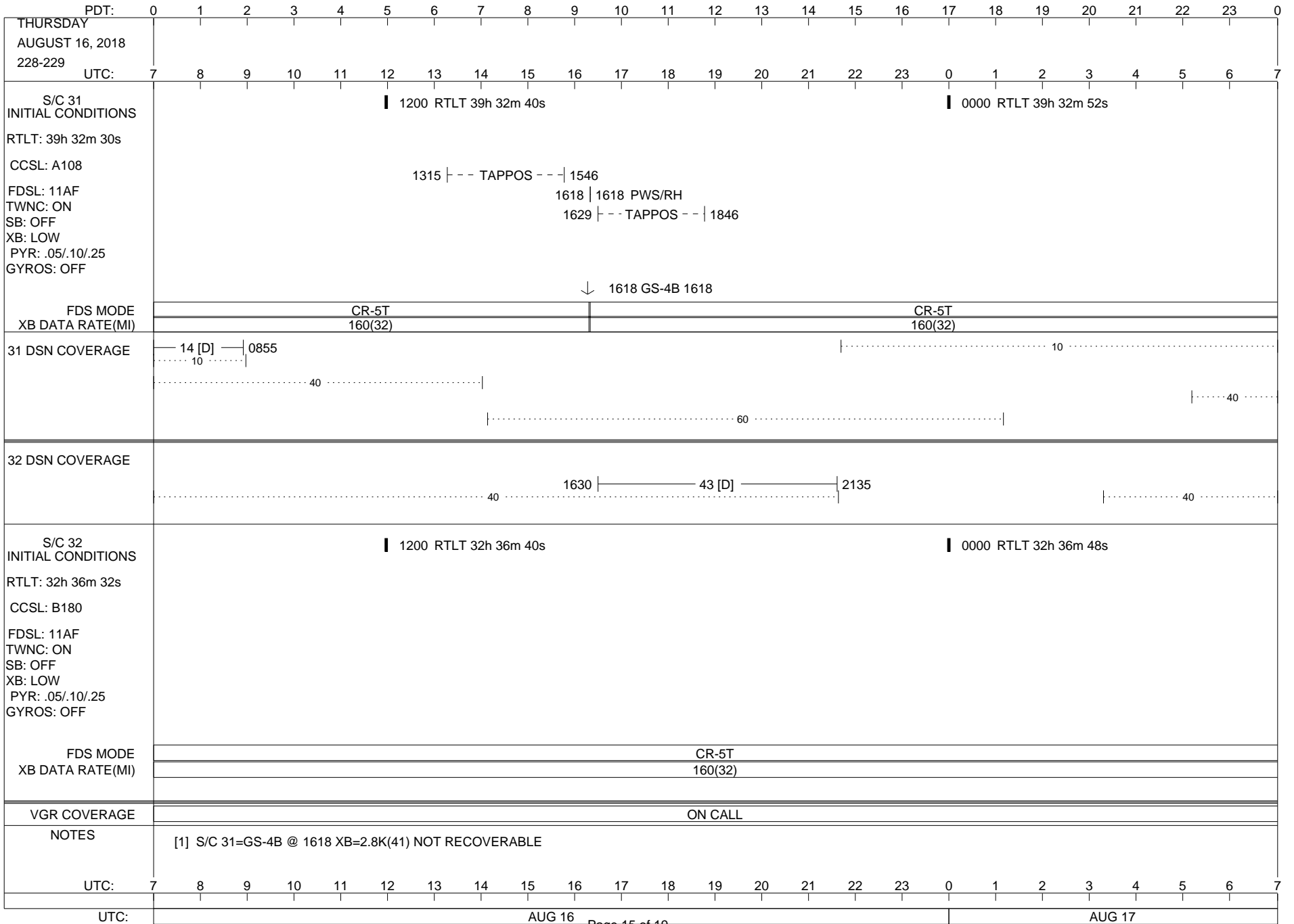
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ISSUE DATE: 08/04/18 20:55

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WEDNESDAY AUGUST 15, 2018 227-228																												
S/C 31 INITIAL CONDITIONS RTLTL: 39h 32m 6s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 32m 18s												0000 RTLT 39h 32m 30s															
FDS MODE													CR-5T															
XB DATA RATE(MI)													160(32)															
31 DSN COVERAGE	.....10.....										.....10.....										0455   14 [D]							
	.....40.....										.....40.....										.....40.....							
	.....60.....																											
32 DSN COVERAGE	0950   43 [BH]   1350										1950   43 [D]   2140										.....40.....							
S/C 32 INITIAL CONDITIONS RTLTL: 32h 36m 16s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 36m 24s												0000 RTLT 32h 36m 32s															
	▼ 1137 DUMMY (5 MIN BRACKETED 20:14)																											
FDS MODE													CR-5T															
XB DATA RATE(MI)													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			
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ISSUE DATE: 08/04/18 20:55





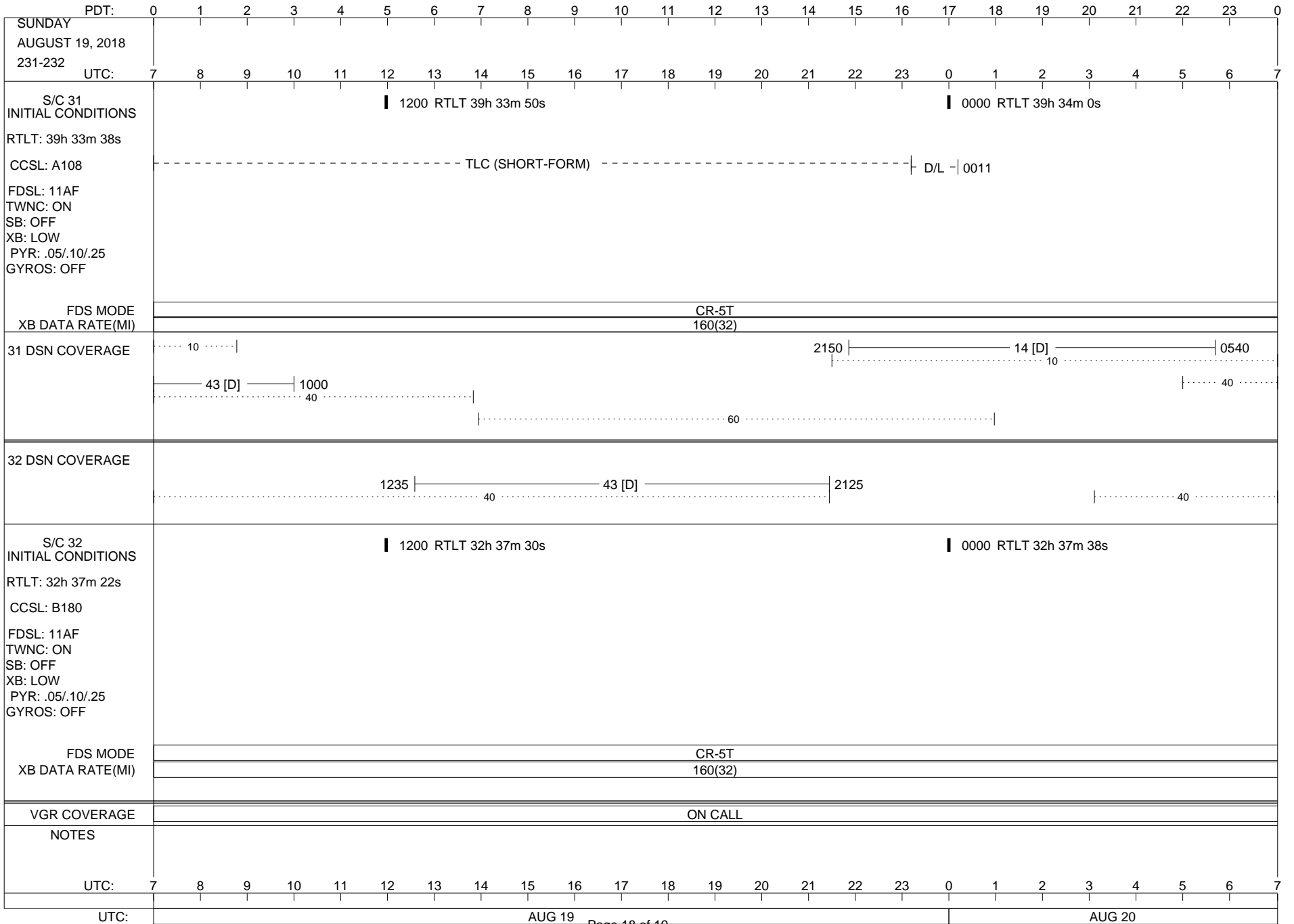
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FRIDAY AUGUST 17, 2018 229-230																									
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLT: 39h 32m 52s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 39h 33m 4s												█ 0000 RTLT 39h 33m 14s							
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
31 DSN COVERAGE	..... 10 .....												..... 0450  ----- 14 [T] -----												
	0830  ----- 43 [D] -----   1230												..... 40 .....  ----- 40 .....												
													..... 60 .....												
32 DSN COVERAGE													..... 1710  ----- 43 [D] -----   2130												
													..... 40 .....  ----- 40 .....												
S/C 32 INITIAL CONDITIONS RTLT: 32h 36m 48s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 32h 36m 56s												█ 0000 RTLT 32h 37m 4s							
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
VGR COVERAGE	ON CALL																						VGR		
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 17												AUG 18												

ISSUE DATE: 08/04/18 20:55

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 18, 2018 230-231	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: 39h 33m 14s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 33m 26s												0000 RTLT 39h 33m 38s															
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)															
31 DSN COVERAGE	14 [T] 0850 10 40												10 0555 43 [D] 40 60															
32 DSN COVERAGE	40 1600 43 [D] 2000												40															
S/C 32 INITIAL CONDITIONS RTLT: 32h 37m 4s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 37m 14s												0000 RTLT 32h 37m 22s															
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																											
VGR COVERAGE													ON CALL															
NOTES	[1] S/C 31=GS-4B @ 1917 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 18														AUG 19													

ISSUE DATE: 08/04/18 20:55



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MONDAY AUGUST 20, 2018 232-233																											
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: 39h 34m 0s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> </div>																										
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
31 DSN COVERAGE	<div style="text-align: center;"> </div>																										
32 DSN COVERAGE	<div style="text-align: center;"> </div>																										
S/C 32 INITIAL CONDITIONS RTLT: 32h 37m 38s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> </div>																										
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 20													AUG 21													