

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: September 5, 2018

For the Period: 09/06/18 to 09/24/18 (18/249 – 18/267)

DSN OPSCHIEF	230-102	SCIENCE	FLIGHT TEAM	600-100
DSOT	230-102	CRS bryant@mail630.gsfc.nasa.gov LECP r.decker@jhuapl.edu MAG u2mha@lepvax.gsfc.nasa.gov PLS vgr@space.mit.edu PWS wsk@space.physics.uiowa.edu 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

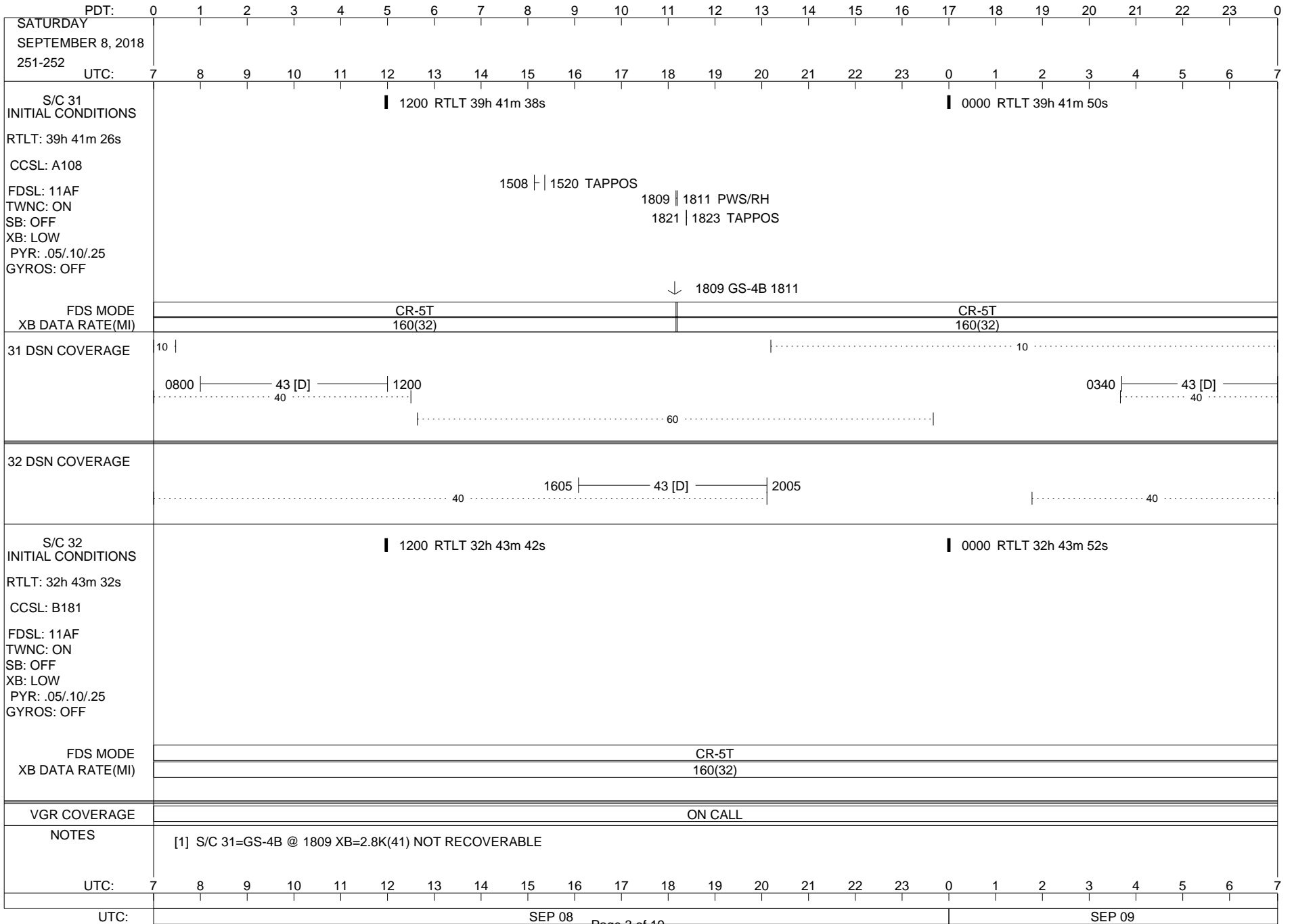
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S/C 31 INITIAL CONDITIONS RTLT: 39h 40m 38s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 40m 50s												0000 RTLT 39h 41m 2s														
	1207   -   1234 TAPPOS 1509    1511 PWS/RH 1521     1533 TAPPOS ↓ 1509 GS-4B 1511																										
FDS MODE	CR-5T												CR-5T														
XB DATA RATE(MI)	160(32)												160(32)														
31 DSN COVERAGE	10   ..... 40 .....   ..... 60 .....   ..... 10 ..... 0330   ..... 14 [D] .....   ..... 40 .....																										
32 DSN COVERAGE	..... 40 ..... 1610   ..... 43 [D] .....   2010   ..... 40 .....																										
S/C 32 INITIAL CONDITIONS RTLT: 32h 42m 52s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 43m 2s												0000 RTLT 32h 43m 12s														
	1645    1652 CCSTIMB FINE - OL																										
FDS MODE	CR-5T																										
XB DATA RATE(MI)	160(32)																										
VGR COVERAGE	ON CALL																										
NOTES	[1] S/C 31=GS-4B @ 1509 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:	SEP 06													SEP 07													

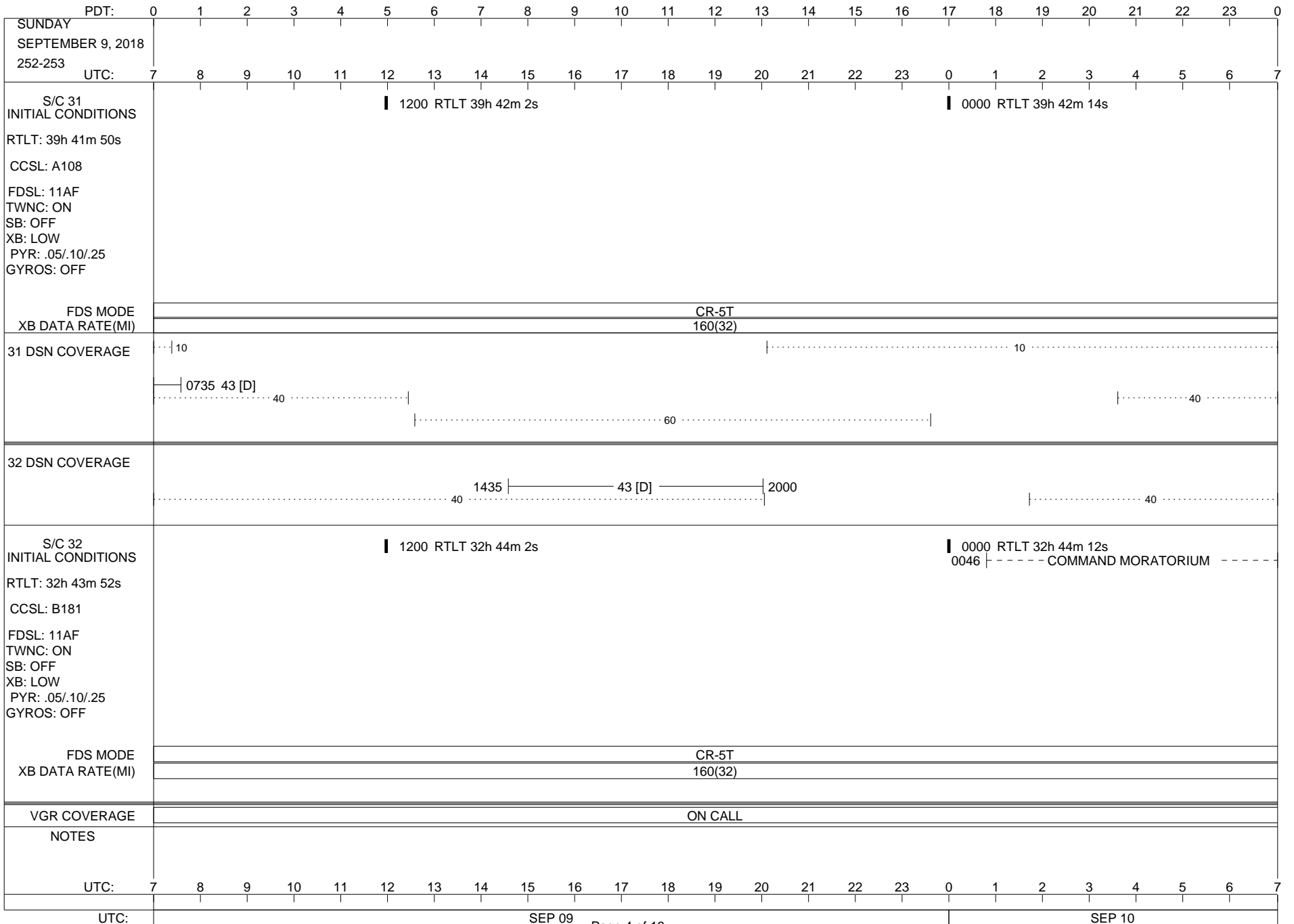
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FRIDAY SEPTEMBER 7, 2018 250-251																										
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S/C 31 INITIAL CONDITIONS RTLT: 39h 41m 2s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						1200 RTLT 39h 41m 14s																				
FDS MODE XB DATA RATE(MI)																										
31 DSN COVERAGE	0730 14 [D]																									
32 DSN COVERAGE																										
S/C 32 INITIAL CONDITIONS RTLT: 32h 43m 12s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						1200 RTLT 32h 43m 22s																				
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:																										

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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  
SEPTEMBER 10, 2018  
253-254 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 42m 14s  
CCSL: A108  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF  
1200 RTLT 39h 42m 24s  
0000 RTLT 39h 42m 36s  
▼ 0845 DUMMY (00:27)  
U/L 0910 | - | ----- TLC (SHORT-FORM) -----

FDS MODE CR-5T  
XB DATA RATE(MI) 160(32)

31 DSN COVERAGE  
| 10  
0820 |----- 43 [T] -----| 1220  
.....40.....  
.....60.....

32 DSN COVERAGE  
.....40..... 1505 |----- 43 [D] -----| 1950  
.....40.....

S/C 32  
INITIAL CONDITIONS  
RTLT: 32h 44m 12s  
CCSL: B181  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF  
1200 RTLT 32h 44m 22s  
0000 RTLT 32h 44m 32s  
----- COMMAND MORATORIUM -----

FDS MODE CR-5T  
XB DATA RATE(MI) 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: SEP 10 SEP 11

ISSUE DATE: 09/05/18 11:27

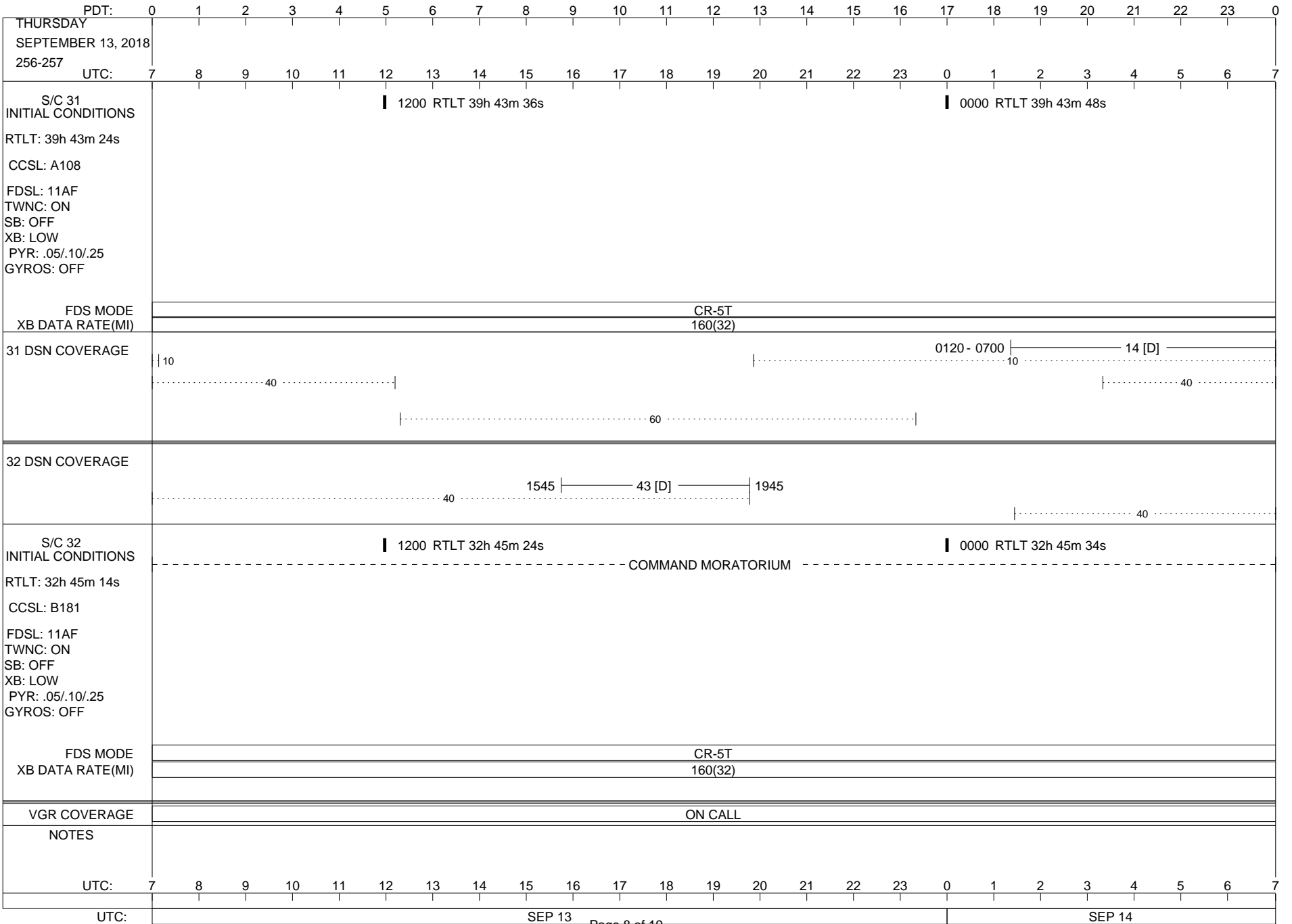
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TUESDAY SEPTEMBER 11, 2018 254-255																												
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7			
S/C 31 INITIAL CONDITIONS RTLT: 39h 42m 36s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 42m 48s												0000 RTLT 39h 43m 0s															
FDS MODE	CR-5T												CR-5T															
XB DATA RATE(MI)	160(32)												160(32)															
31 DSN COVERAGE	0000  -----  14 [D]  -----  0515												0000  -----  14 [D]  -----  0515															
32 DSN COVERAGE	0840  -----  43 [DA]  -----  1240 0905  -----  36 [DAR]  -----  1145												1745  -----  36 [DA]  -----  1950 1745  -----  34 [DAR]  -----  1950 1800  -----  35 [DA]  -----  1950															
S/C 32 INITIAL CONDITIONS RTLT: 32h 44m 32s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 44m 42s												0000 RTLT 32h 44m 54s															
FDS MODE	CR-5T				EL-40				CR-5T				CR-5T															
XB DATA RATE(MI)	160(32)				40(30)				160(32)				160(32)															
VGR COVERAGE	ON CALL				VGR				ON CALL				ON CALL															
NOTES	[1] S/C 31=GS-4B @ 0457 XB=2.8K(41) NOT RECOVERABLE [2] S/C 32=EL-40 @ 0903 XB=40(30) [3] S/C 32=CR-5T @ 1137 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:	SEP 11														SEP 12													

ISSUE DATE: 09/05/18 11:27

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 SEPTEMBER 12, 2018 255-256																									
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 43m 0s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 39h 43m 12s																			
FDS MODE XB DATA RATE(MI)																									
31 DSN COVERAGE	10																			0045 - 0630					
																					14 [D]				
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS RTLT: 32h 44m 54s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 32h 45m 4s																			
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:	SEP 12													SEP 13											



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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
FRIDAY SEPTEMBER 14, 2018 257-258																									
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 43m 48s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 44m 0s												0000 RTLT 39h 44m 12s												
	0809   0824 TAPPOS												1110   1112 PWS/RH												
													1122   1151 TAPPOS												
	↓ 1110 GS-4B 1112																								
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	0700 14 [D]  10												0300 - 0700   14 [D]  10												
	..... 40 .....												..... 40 .....												
	..... 60 .....																								
32 DSN COVERAGE	0830   43 [DA]   1200												1625   43 [D]   1940												
	0830   36 [DAR]   1155												..... 40 .....												
S/C 32 INITIAL CONDITIONS RTLT: 32h 45m 34s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 45m 44s												0000 RTLT 32h 45m 56s												
	----- COMMAND MORATORIUM -----																								
	↓ 0832 GYROS BC ON												2346												
	↓ 0832 BAY 1 HTR OFF																								
	↓ 0833 GYRO INIT																								
	↓ 0842 GYRO FAULT TEST																								
	↓ 0932 AAI																								
	0936   -----   1052 MAGROL																								
	↓ 1047 RAI																								
	↓ 1053 GYROS OFF																								
	↓ 1053 CRU																								
	↓ 1101 BAY 1 HTR ON																								
	↓ 0835 EL-40 0836																								
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	VGR												ON CALL												
NOTES	[1] S/C 31=GS-4B @ 1110 XB=2.8K(41) NOT RECOVERABLE																								
	[2] S/C 32=D/L AGC VARIATIONS EXPECTED DURING MAGROL (0936-1052)																								
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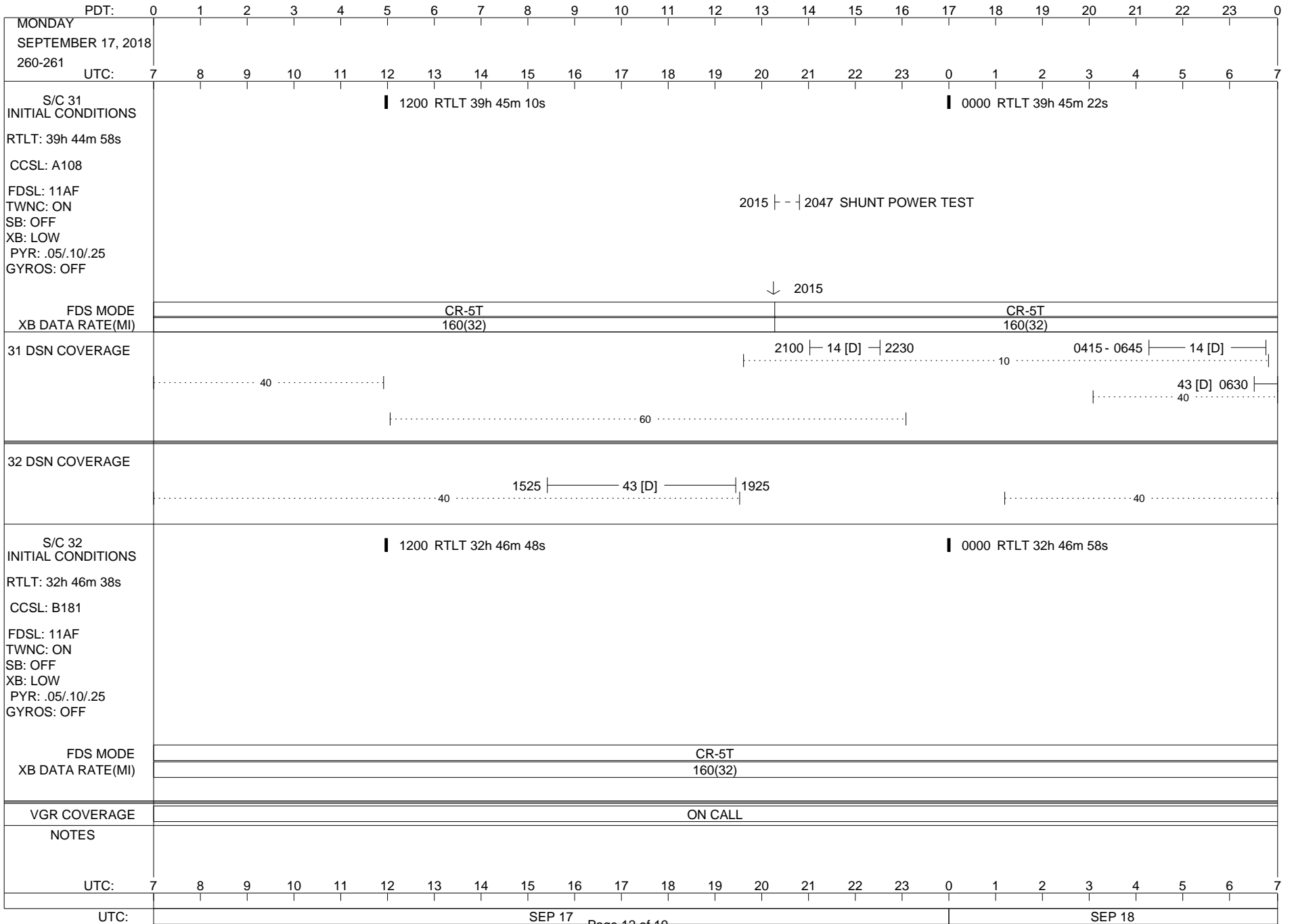
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SATURDAY SEPTEMBER 15, 2018 258-259																											
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7		
S/C 31 INITIAL CONDITIONS RTLTL: 39h 44m 12s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 39h 44m 24s												0000 RTLTL 39h 44m 36s														
FDS MODE	CR-5T																										
XB DATA RATE(MI)	160(32)																										
31 DSN COVERAGE	0700 14 [D] 10 .....40.....												0210  ----- 14 [D] -----  0600 10 .....  .....0545  ----- 43 [D] -----  40 .....														
32 DSN COVERAGE	.....40.....  1520  ----- 43 [D] -----  1935												----- 40 -----														
S/C 32 INITIAL CONDITIONS RTLTL: 32h 45m 56s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 32h 46m 6s												0000 RTLTL 32h 46m 16s														
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:	SEP 15														SEP 16												

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SUNDAY SEPTEMBER 16, 2018 259-260																										
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 44m 36s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 39h 44m 46s												█ 0000 RTLTL 39h 44m 58s													
	1109   -   1138 TAPPOS												1411     1413 PWS/RH 1423   - -   1506 TAPPOS													
	↓ 1411 GS-4B 1413																									
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
31 DSN COVERAGE	0745 43 [D] ..... 40 .....												2335   ..... 10 ..... 14 [D] ..... 0345 ..... 40 .....													
32 DSN COVERAGE	..... 40 ..... 1505   ..... 43 [D] ..... 1935 .....												..... 40 .....													
S/C 32 INITIAL CONDITIONS RTLTL: 32h 46m 16s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 32h 46m 26s												█ 0000 RTLTL 32h 46m 38s													
FDS MODE	CR-5T																									
XB DATA RATE(MI)	160(32)																									
VGR COVERAGE													ON CALL													
NOTES	[1] S/C 31=GS-4B @ 1411 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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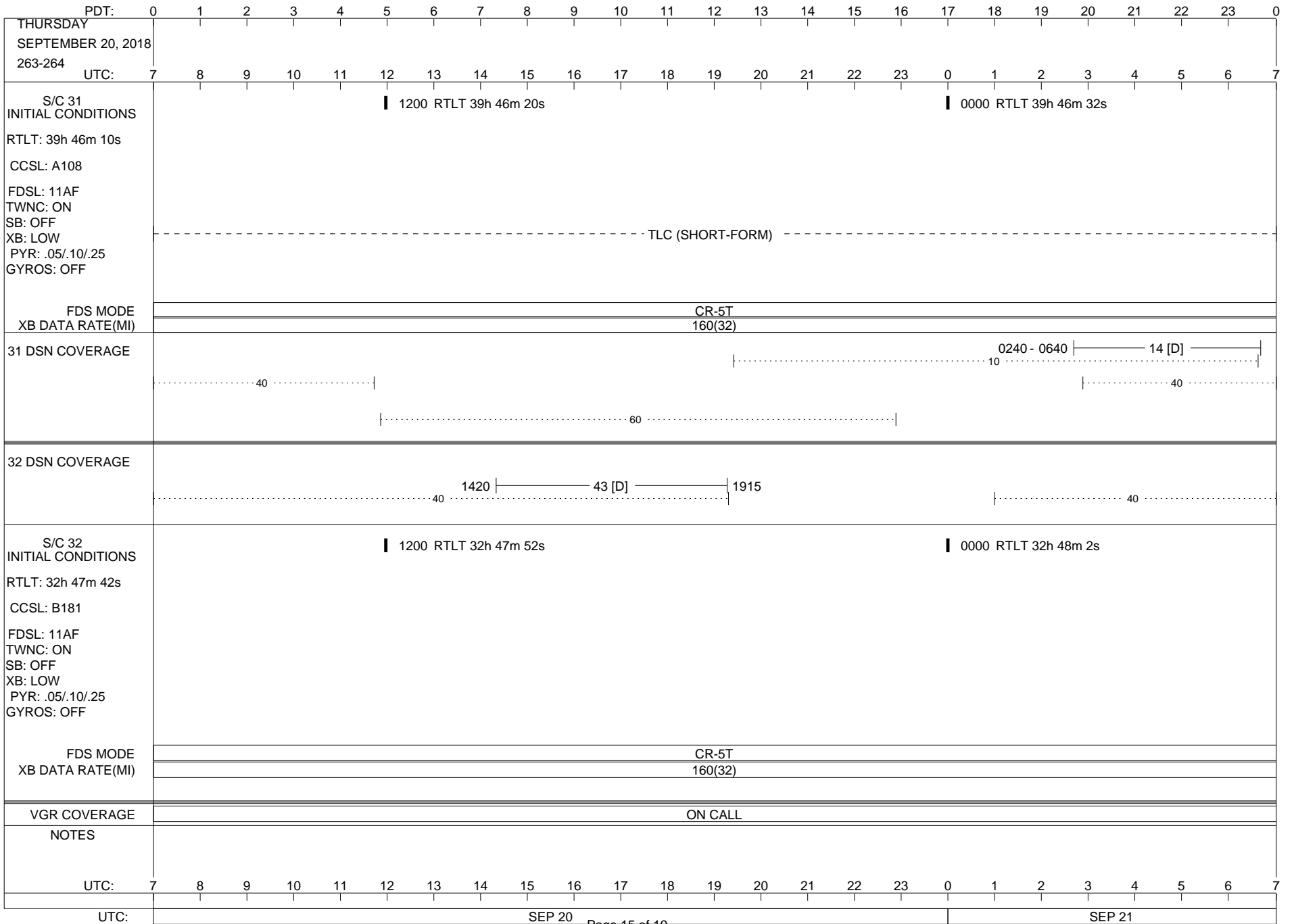


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TUESDAY SEPTEMBER 18, 2018 261-262																									
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLTL: 39h 45m 22s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 39h 45m 34s												0000 RTLTL 39h 45m 46s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	- 43 [D] -   0815												2245   14 [D]   0245												
32 DSN COVERAGE	1400   43 [D]   1925												43 [Bo] 0620												
S/C 32 INITIAL CONDITIONS RTLTL: 32h 46m 58s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 32h 47m 10s												0000 RTLTL 32h 47m 20s												
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 @ 0435 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:	SEP 18												SEP 19												

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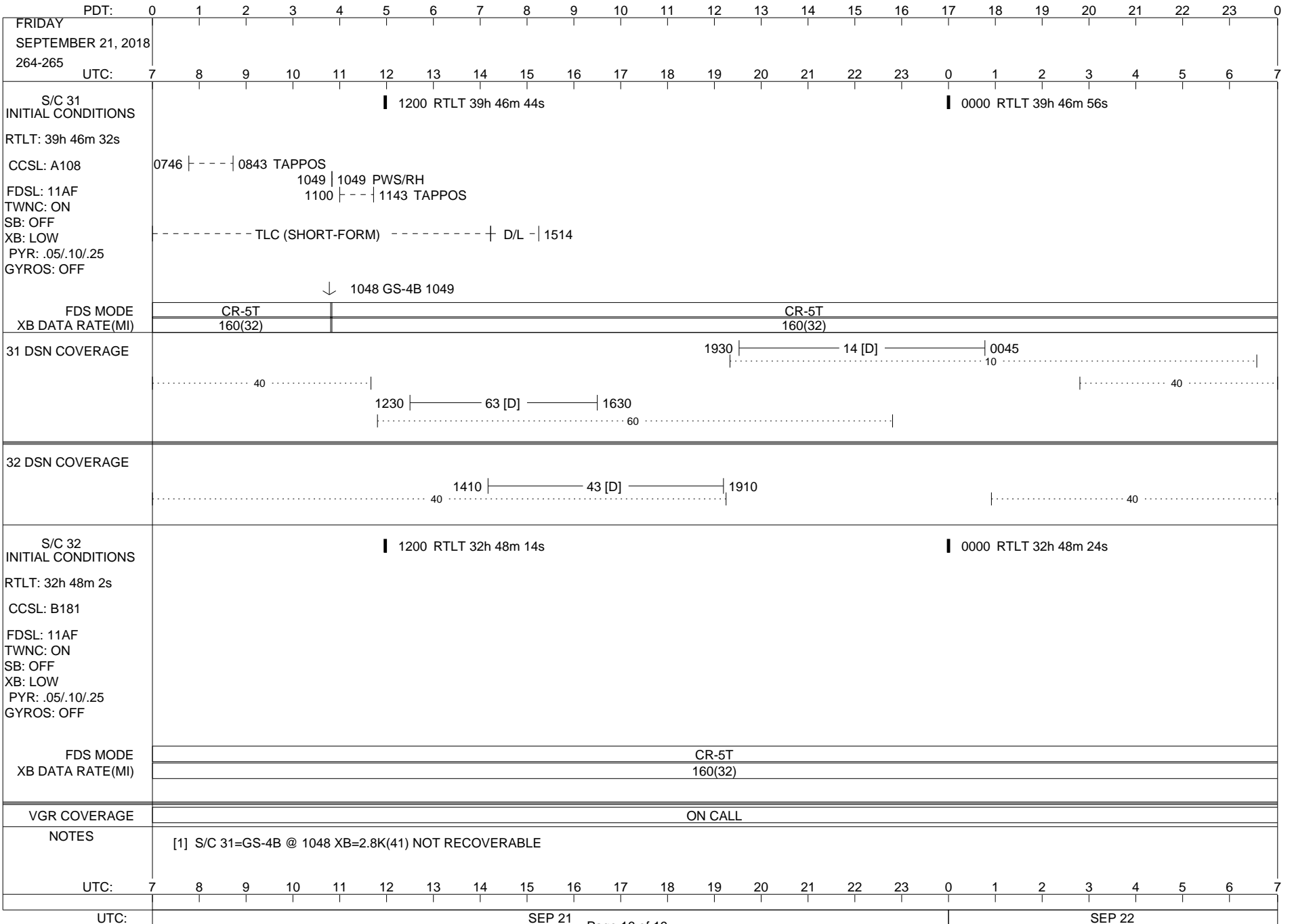
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UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLT: 39h 45m 46s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 39h 45m 58s												█ 0000 RTLT 39h 46m 10s							
FDS MODE XB DATA RATE(MI)																									
31 DSN COVERAGE																									
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS RTLT: 32h 47m 20s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 32h 47m 30s												█ 0000 RTLT 32h 47m 42s							
FDS MODE XB DATA RATE(MI)																									
VGR COVERAGE	VGR																	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:																									

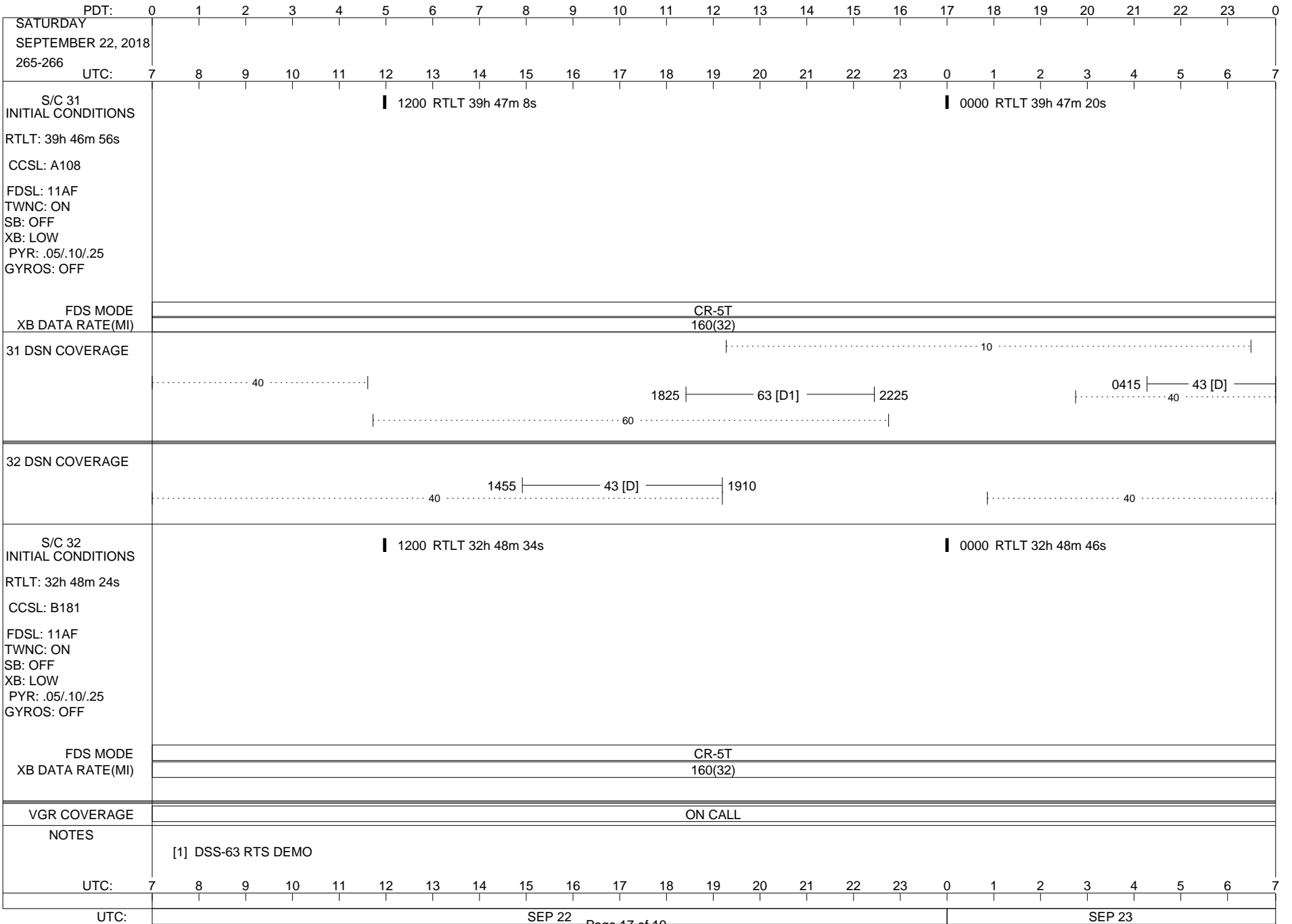
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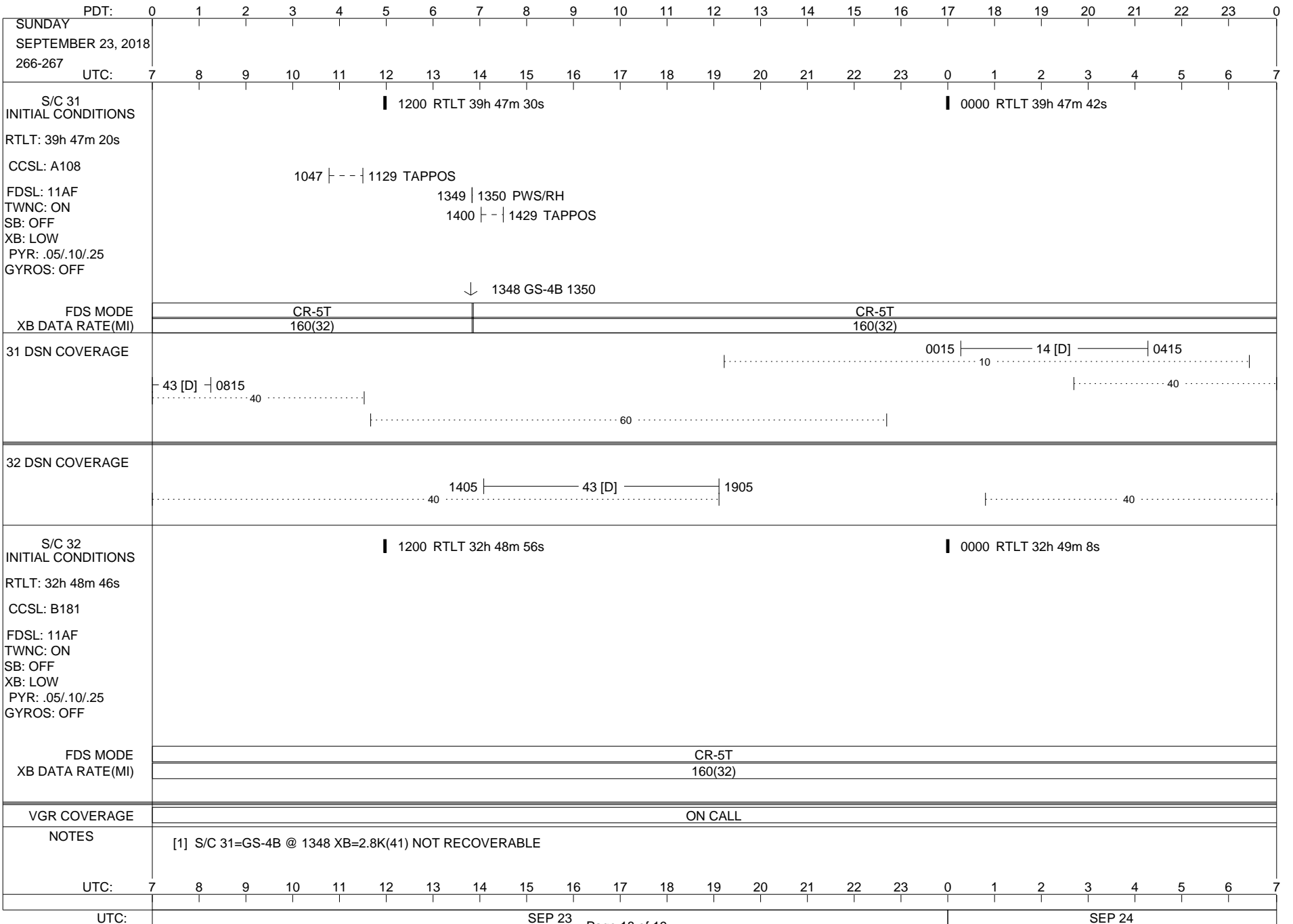


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PDT:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0		
MONDAY SEPTEMBER 24, 2018 267-268																											
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7		
S/C 31 INITIAL CONDITIONS RTLT: 39h 47m 42s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 39h 47m 54s</p> </div>																										
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
31 DSN COVERAGE	<div style="text-align: center;"> <p>..... 40 .....</p> <p>..... 60 .....</p> </div>																										
32 DSN COVERAGE	<div style="text-align: center;"> <p>..... 40 ..... 1400  ----- 43 [D] -----  1800</p> </div>																										
S/C 32 INITIAL CONDITIONS RTLT: 32h 49m 8s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 32h 49m 18s</p> </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:	SEP 24													SEP 25													