

# 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)

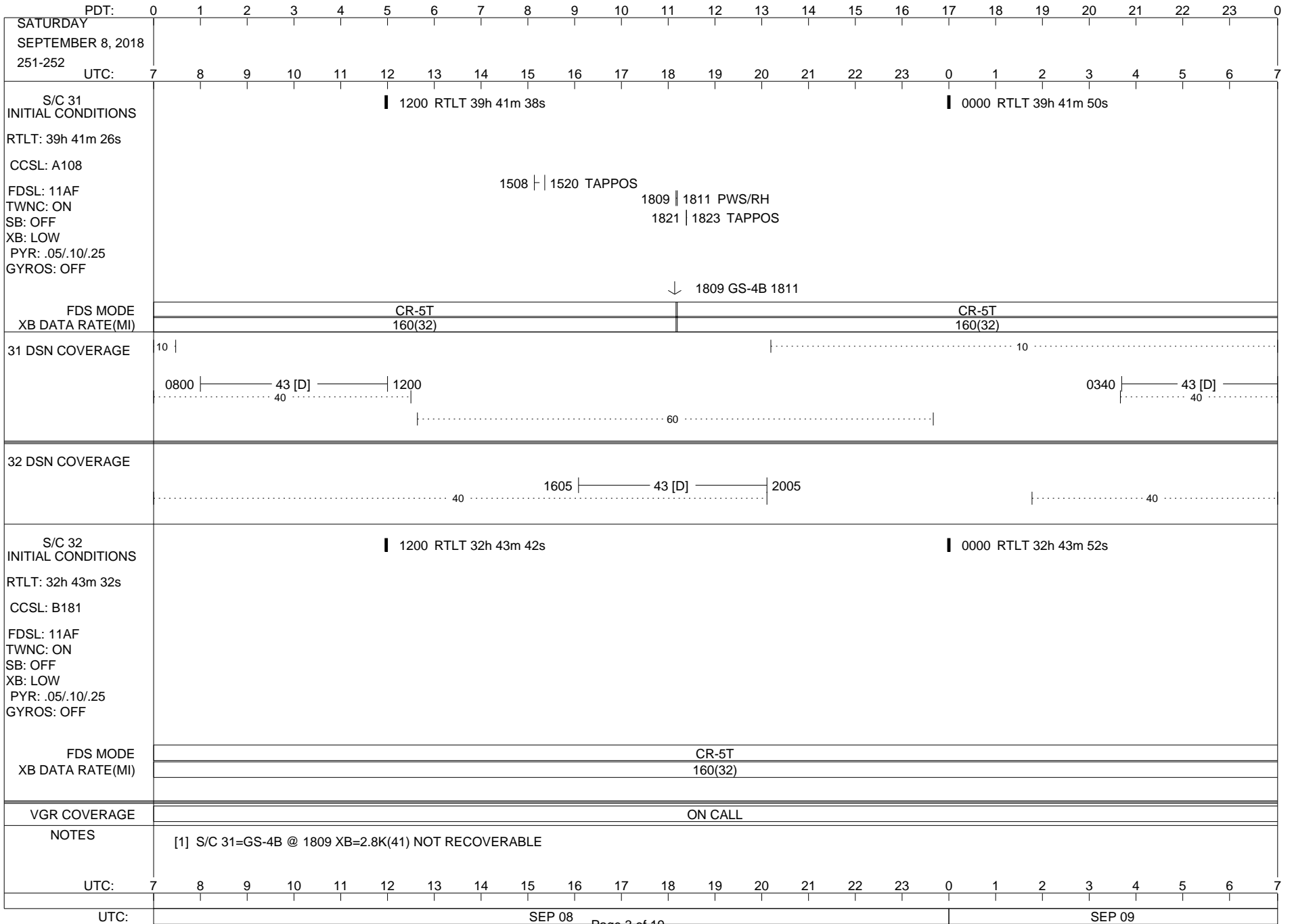
02/27/17

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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 1207   -   1234 TAPPOS 1509    1511 PWS/RH 1521     1533 TAPPOS ↓ 1509 GS-4B 1511												0000 RTLT 39h 41m 2s													
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 1645    1652 CCSTIMB FINE - OL												0000 RTLT 32h 43m 12s													
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												

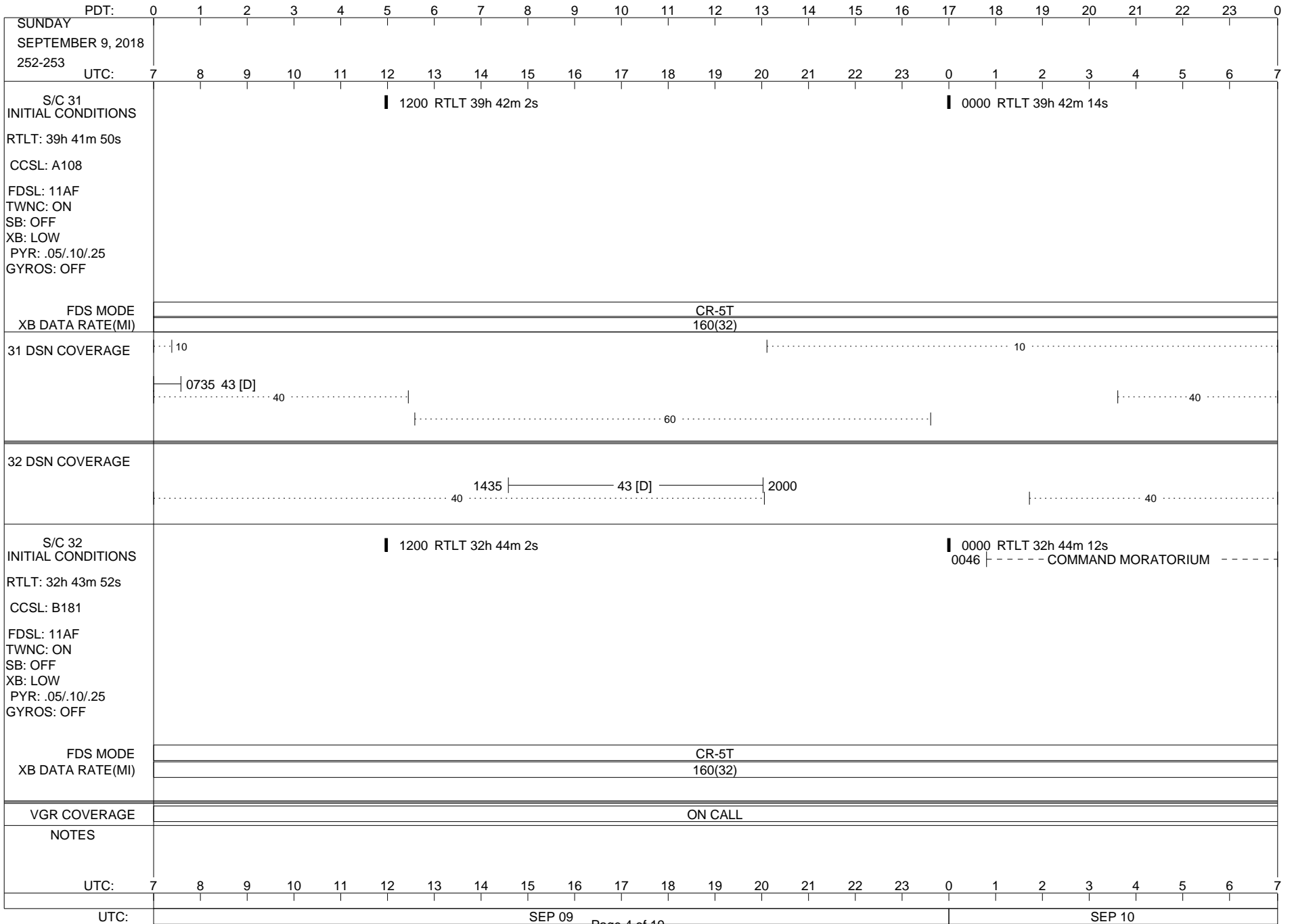
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S/C 31 INITIAL CONDITIONS RTLT: 39h 41m 2s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						1200																			
FDS MODE																									
XB DATA RATE(MI)																									
31 DSN COVERAGE	0730	14	[D]																						
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																			
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
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ISSUE DATE: 09/05/18 11:27



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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			
TUESDAY SEPTEMBER 11, 2018 254-255																												
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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			CR-5T												
XB DATA RATE(MI)	160(32)												160(32)			160(32)												
31 DSN COVERAGE	40												0000   14 [D]   0515			40												
32 DSN COVERAGE	0840   43 [DA]   1240						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																			
XB DATA RATE(MI)	160(32)				40(30)				160(32)																			
VGR COVERAGE	ON CALL				VGR				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

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THURSDAY SEPTEMBER 13, 2018 256-257																										
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S/C 31 INITIAL CONDITIONS RTLT: 39h 43m 24s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 39h 43m 36s															█ 0000 RTLT 39h 43m 48s					
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
31 DSN COVERAGE	10																				0120 - 0700				14 [D]	
32 DSN COVERAGE																										
S/C 32 INITIAL CONDITIONS RTLT: 32h 45m 14s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 32h 45m 24s																			█ 0000 RTLT 32h 45m 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:	SEP 13													SEP 14												

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			
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FRIDAY SEPTEMBER 14, 2018 257-258																												
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 -----   2346																											
	↓ 0832 GYROS BC ON																											
	↓ 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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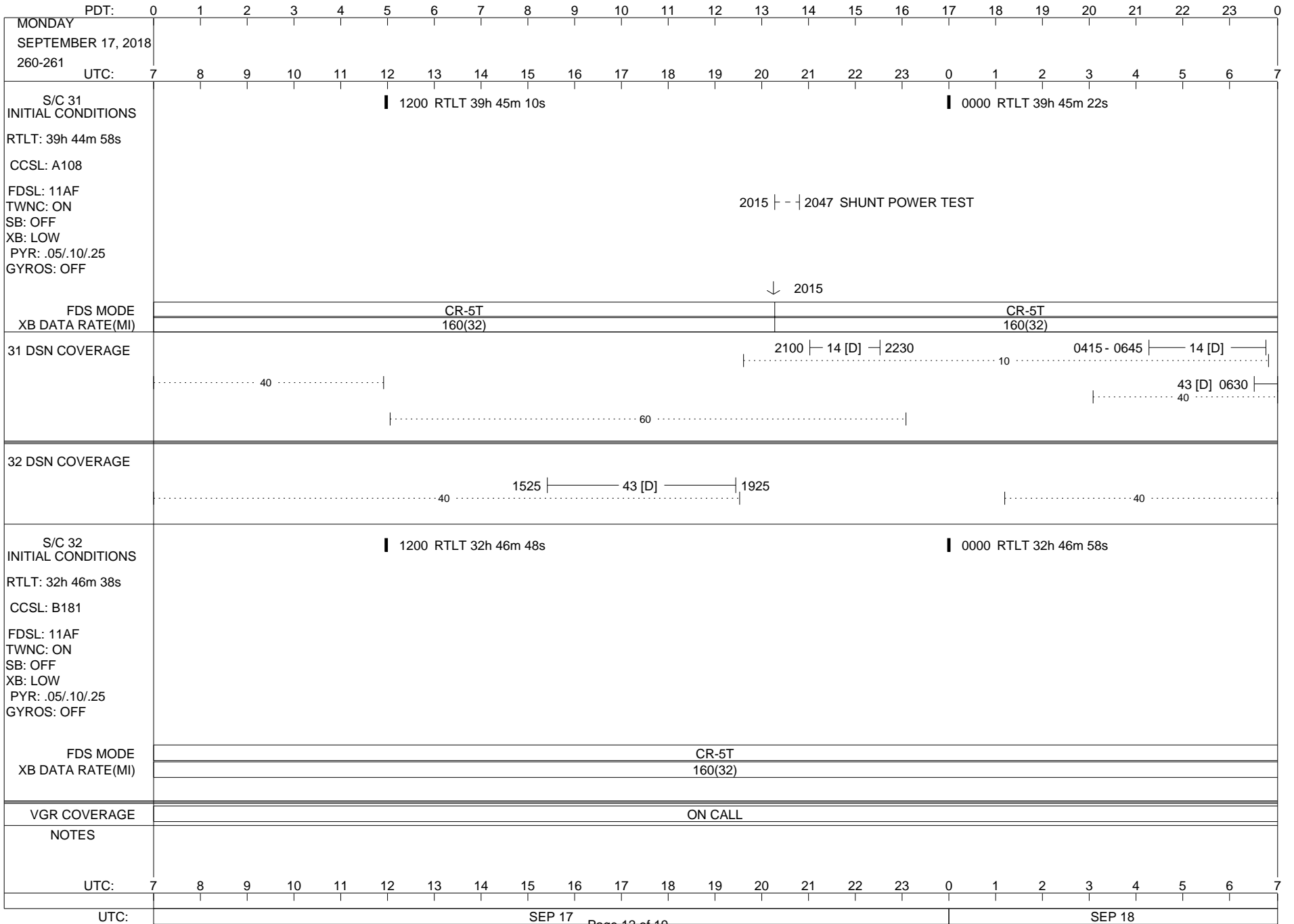
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S/C 31 INITIAL CONDITIONS RTLT: 39h 44m 12s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 44m 24s												0000 RTLT 39h 44m 36s													
FDS MODE													CR-5T													
XB DATA RATE(MI)													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 RTLT: 32h 45m 56s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 46m 6s												0000 RTLT 32h 46m 16s													
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
VGR COVERAGE													ON CALL													
NOTES																										
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ISSUE DATE: 09/05/18 11:27

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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]												2335   14 [D]   0345													
	.....40.....												.....10.....													
	.....60.....												.....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	
UTC:	SEP 16														SEP 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
TUESDAY SEPTEMBER 18, 2018 261-262																									
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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																								
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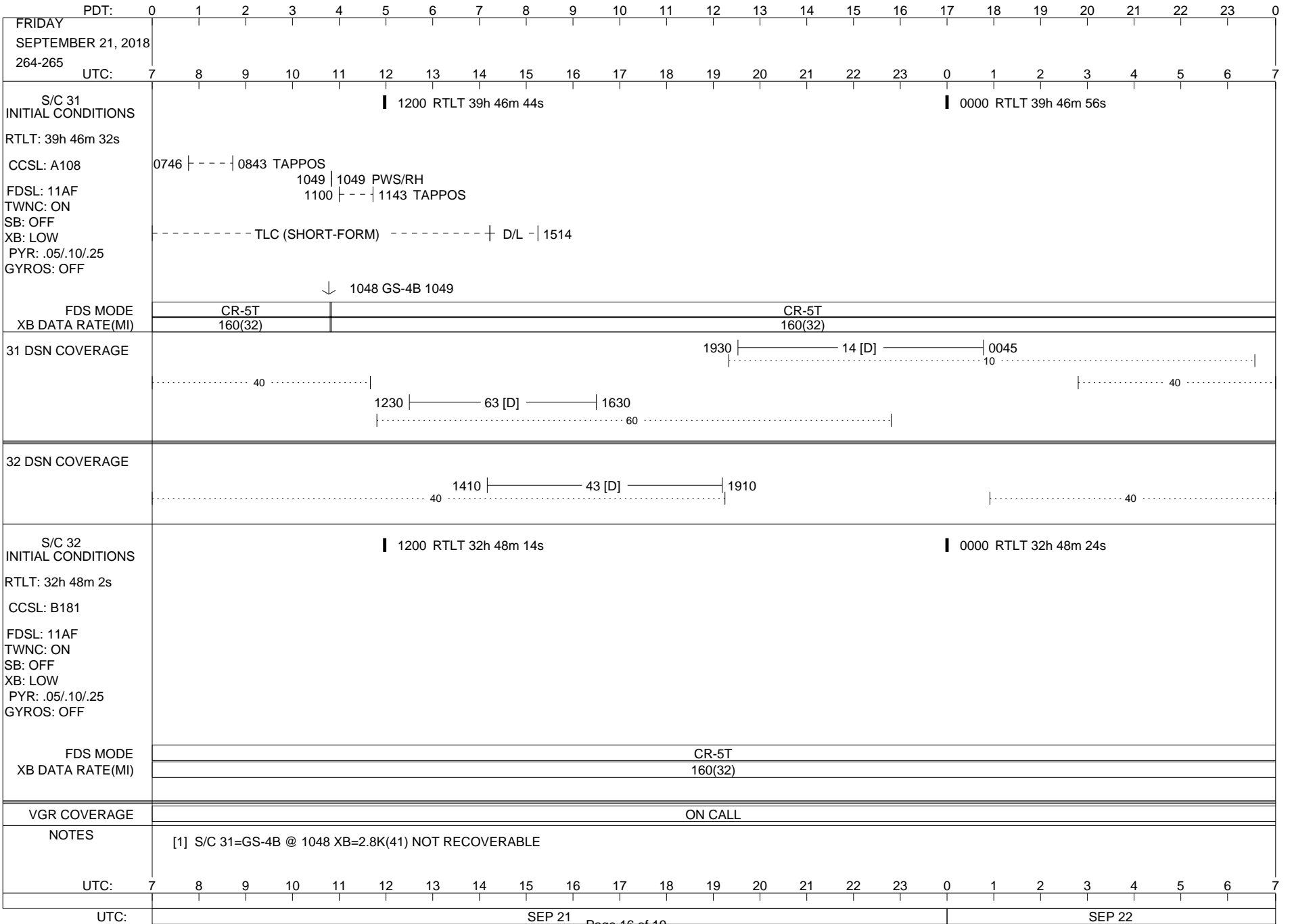
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SEPTEMBER 19, 2018																												
262-263																												
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S/C 31 INITIAL CONDITIONS		1200 RTLT 39h 45m 58s												0000 RTLT 39h 46m 10s														
RTLT: 39h 45m 46s																												
CCSL: A108																												
FDSL: 11AF														▼ 2130 DUMMY (13:16)														
TWNC: ON																												
SB: OFF																												
XB: LOW																												
PYR: .05/.10/.25																												
GYROS: OFF																												
FDS MODE														CR-5T														
XB DATA RATE(MI)														160(32)														
31 DSN COVERAGE		<p>.....40.....  .....60.....</p> <p>.....0145  ----- 14 [D] -----  0600</p> <p>.....2100  --- 63 [1T] ---  2305</p> <p>.....40.....</p>																										
32 DSN COVERAGE		<p>----- 43 [Bo] -----  1120</p> <p>.....40..... 1605  ----- 43 [D] -----  1920</p> <p>.....40.....</p>																										
S/C 32 INITIAL CONDITIONS		1200 RTLT 32h 47m 30s												0000 RTLT 32h 47m 42s														
RTLT: 32h 47m 20s																												
CCSL: B181																												
FDSL: 11AF		-----  0802 PLSCAL																										
TWNC: ON																												
SB: OFF																												
XB: LOW																												
PYR: .05/.10/.25																												
GYROS: OFF																												
FDS MODE														CR-5T														
XB DATA RATE(MI)														160(32)														
VGR COVERAGE		VGR												ON CALL														
NOTES		[1] DSS-63 RTS DEMO																										
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: 09/05/18 11:27

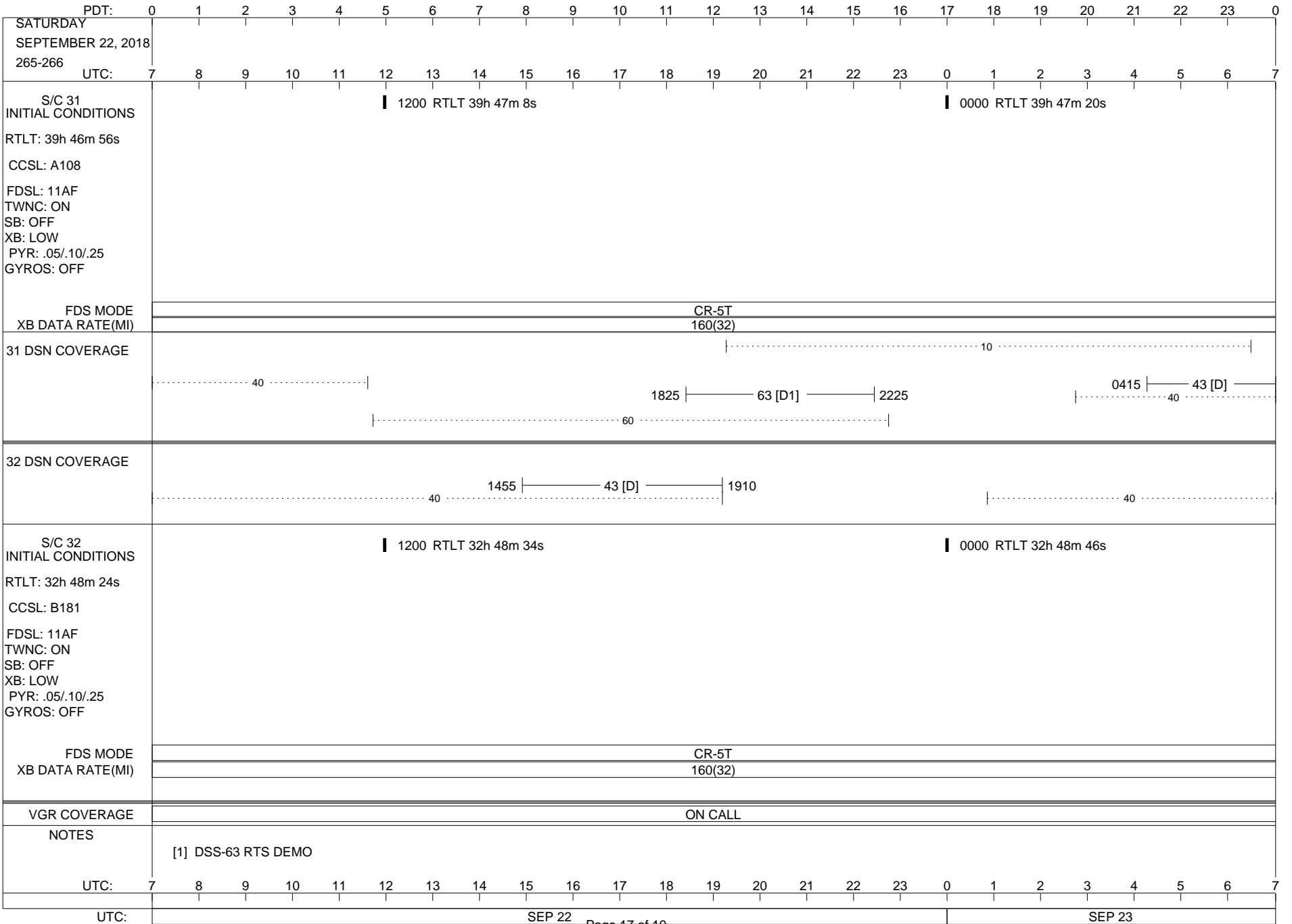
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THURSDAY SEPTEMBER 20, 2018 263-264																									
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S/C 31 INITIAL CONDITIONS RTLT: 39h 46m 10s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 39h 46m 20s															█ 0000 RTLT 39h 46m 32s				
FDS MODE XB DATA RATE(MI)																									
31 DSN COVERAGE																									
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS RTLT: 32h 47m 42s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 32h 47m 52s																█ 0000 RTLT 32h 48m 2s			
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 20													SEP 21											



ISSUE DATE: 09/05/18 11:27



ISSUE DATE: 09/05/18 11:27



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
SUNDAY SEPTEMBER 23, 2018 266-267																									
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 47m 20s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 39h 47m 30s												█ 0000 RTLTL 39h 47m 42s												
	1047   - -   1129 TAPPOS												1349   1350 PWS/RH												
													1400   -   1429 TAPPOS												
													↓ 1348 GS-4B 1350												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	- 43 [D]   0815												0015   14 [D]   0415												
	.....40.....												.....10.....40.....												
	.....60.....																								
32 DSN COVERAGE	.....40.....1405   43 [D]   1905												.....40.....												
S/C 32 INITIAL CONDITIONS RTLTL: 32h 48m 46s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 32h 48m 56s												█ 0000 RTLTL 32h 49m 8s												
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
VGR COVERAGE													ON CALL												
NOTES	[1] S/C 31=GS-4B @ 1348 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 23												SEP 24												

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

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

█ 1200 RTLT 39h 47m 54s

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

31 DSN COVERAGE

..... 40 .....|  
 |..... 60 .....|

32 DSN COVERAGE

..... 40 .....| 1400 |----- 43 [D] -----| 1800  
 |..... 40 .....|

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

█ 1200 RTLT 32h 49m 18s

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: 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