

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: September 12, 2018

For the Period: 09/13/18 to 10/01/18 (18/256 – 18/274)

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

ISSUE DATE: 09/12/18 11:36

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
THURSDAY SEPTEMBER 13, 2018 256-257																									
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 24s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						1200													0000						
FDS MODE																									
XB DATA RATE(MI)																									
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	0700																								
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:																									

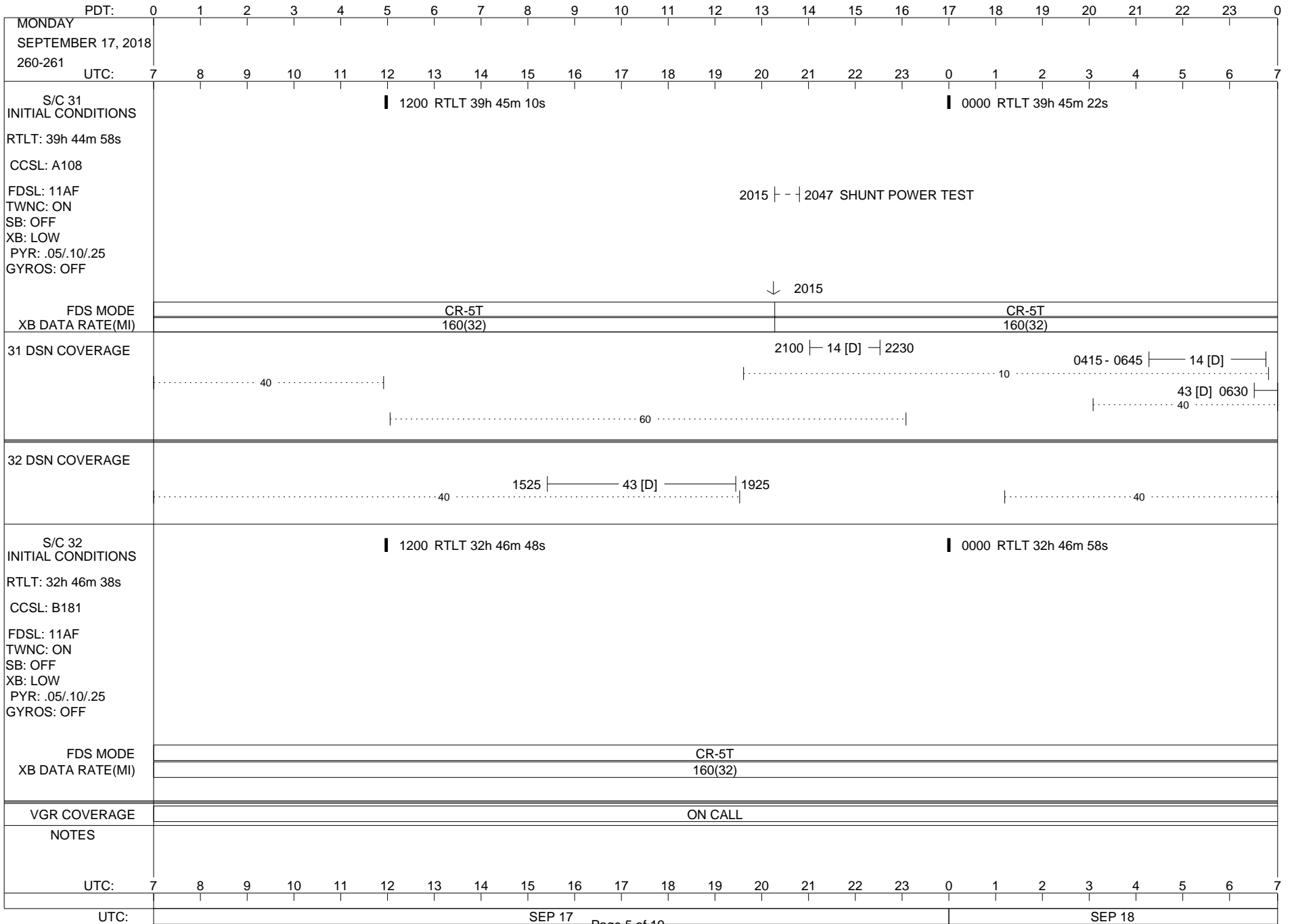
ISSUE DATE: 09/12/18 11:36

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FRIDAY SEPTEMBER 14, 2018 257-258																													
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S/C 31 INITIAL CONDITIONS RTLTL: 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													
FDS MODE		CR-5T														CR-5T													
XB DATA RATE(MI)		160(32)														160(32)													
31 DSN COVERAGE		0700 14 [D] 10 40														0300 - 0700   14 [D] 10 40													
32 DSN COVERAGE		0830   36 [DAR]   1155 0830   43 [DA]   1200 40														1625   43 [D]   1940 40													
S/C 32 INITIAL CONDITIONS RTLTL: 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													
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)																											
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 14														SEP 15													



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SUNDAY SEPTEMBER 16, 2018 259-260																									
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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												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	0745 43 [D] ..... 40 ..... 60 .....												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												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL												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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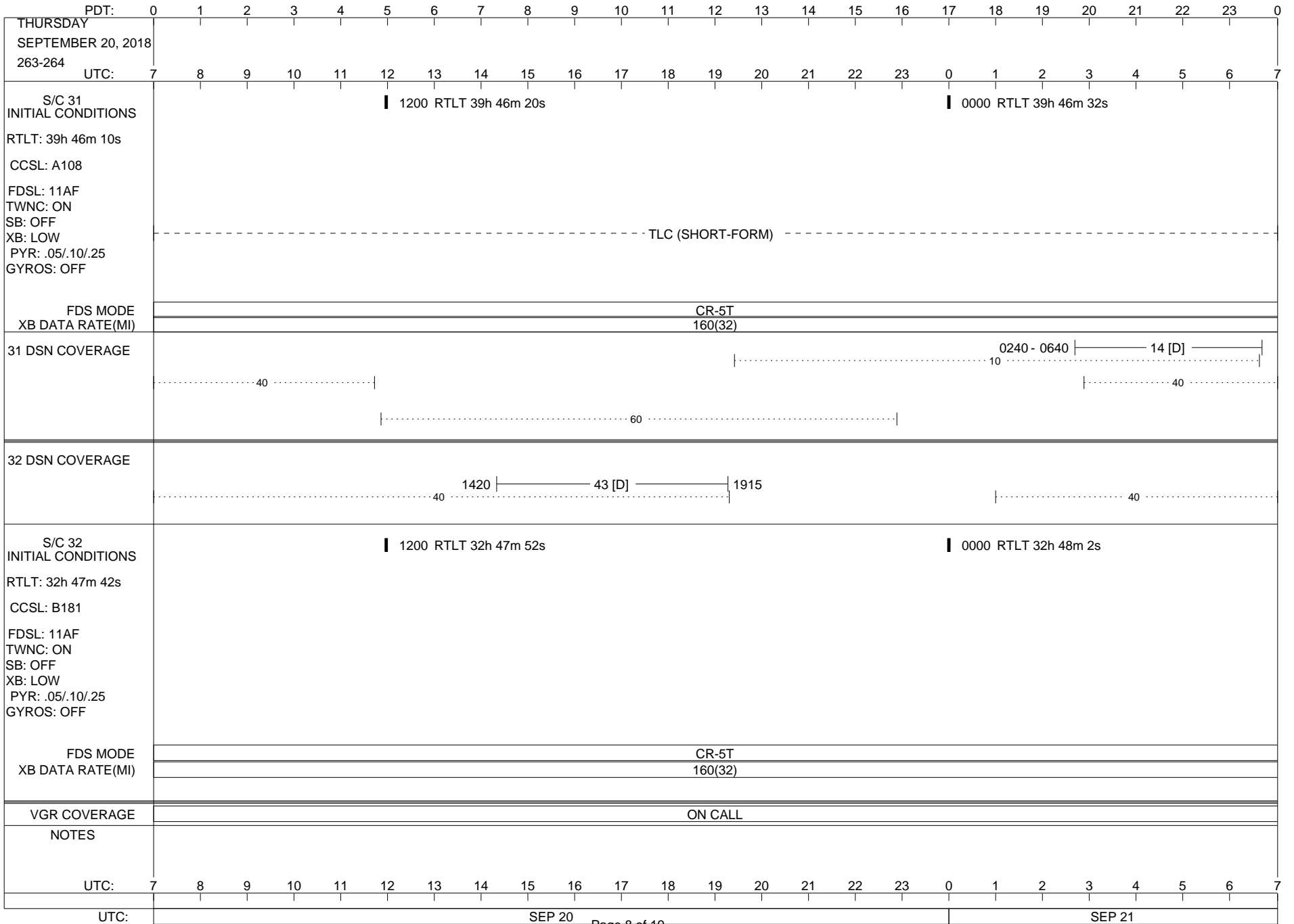


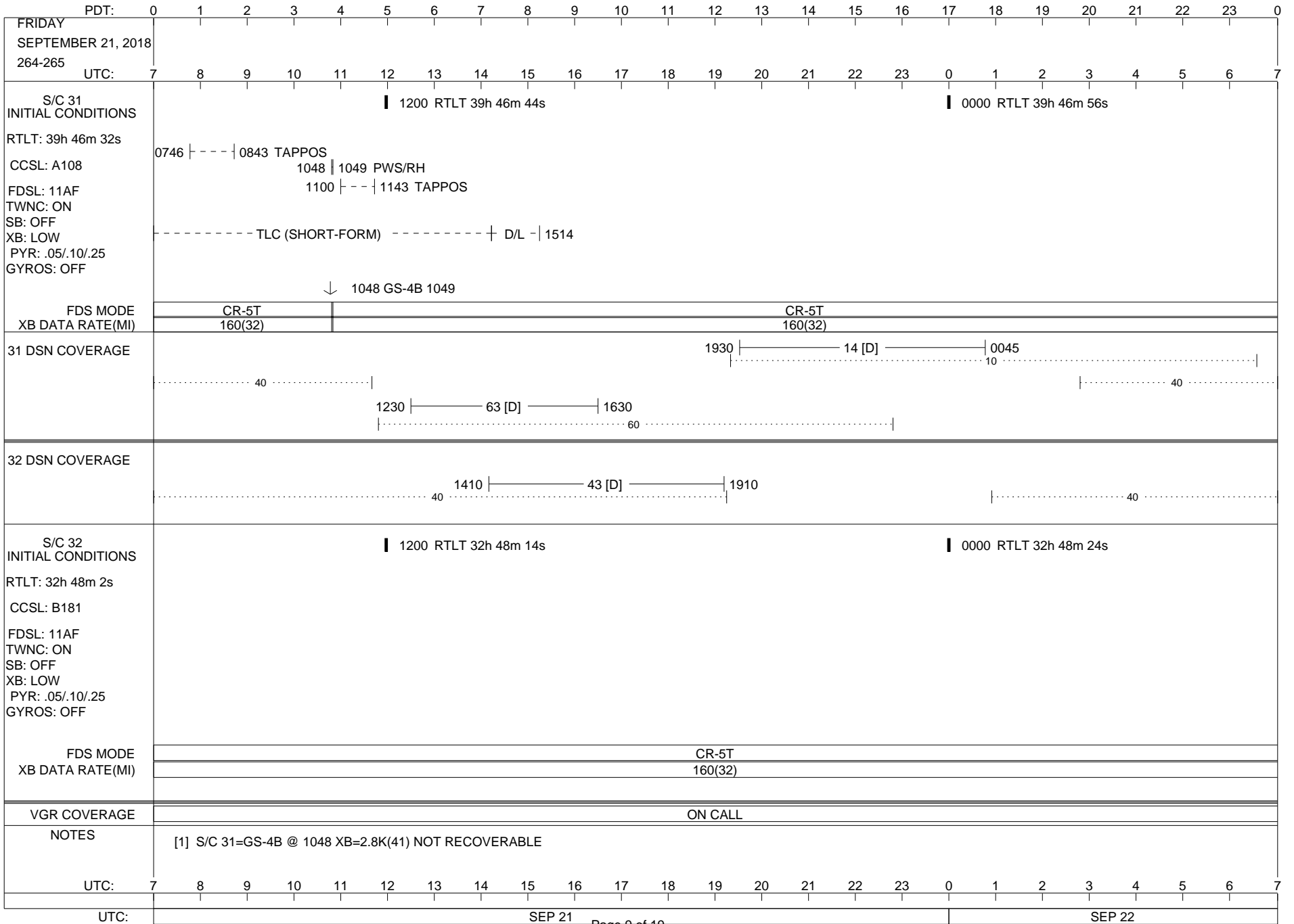
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TUESDAY SEPTEMBER 18, 2018 261-262	UTC: 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLTL: 39h 45m 22s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 39h 45m 34s												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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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 19, 2018 262-263																										
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)													CR-5T 160(32)													
31 DSN COVERAGE	.....40.....												.....0145  ----- 14 [D] -----  0600 10 .....40.....													
32 DSN COVERAGE	-----43 [Bo] -----  1120												.....1605  ----- 43 [D] -----  1920 40 .....40.....													
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)													CR-5T 160(32)													
VGR COVERAGE	VGR	ON CALL												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	
UTC:	SEP 19												SEP 20													









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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 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												1348   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.....												.....40.....													
32 DSN COVERAGE	.....40.....												1405   43 [D]   1905													
	.....40.....												.....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											

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												█ 0000 RTLT 39h 48m 6s									
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
31 DSN COVERAGE																		2320	-----	14 [D]	-----	0320					
32 DSN COVERAGE																											
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:	SEP 24													SEP 25													

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 25, 2018																												
268-269																												
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		1200 RTLT 39h 48m 18s												0000 RTLT 39h 48m 28s														
RTLTL: 39h 48m 6s																												
CCSL: A108		0412   0413 PWS/RH																										
FDSL: 11AF																												
TWNC: ON																												
SB: OFF																												
XB: LOW																												
PYR: .05/.10/.25																												
GYROS: OFF																												
FDS MODE		CR-5T															0412 GS-4B 0413											
XB DATA RATE(MI)		160(32)															160(32)											
31 DSN COVERAGE		..... 40 .....   ..... 60 .....   ..... 2130  ----- 14 [D] -----  0130 ..... 10 .....   ..... 40 .....																										
32 DSN COVERAGE		..... 40 .....   ..... 1455  ----- 43 [D] -----  1855 .....   ..... 40 .....   ..... 43 [B] 0645																										
S/C 32 INITIAL CONDITIONS		1200 RTLT 32h 49m 40s												0000 RTLT 32h 49m 52s														
RTLTL: 32h 49m 30s																												
CCSL: B181																												
FDSL: 11AF																												
TWNC: ON																												
SB: OFF																												
XB: LOW																												
PYR: .05/.10/.25																												
GYROS: OFF																												
FDS MODE		CR-5T																										
XB DATA RATE(MI)		160(32)																										
VGR COVERAGE		ON CALL																								VGR		
NOTES		[1] S/C 31=GS-4B @ 0412 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 25															SEP 26											

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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  
 SEPTEMBER 26, 2018  
 269-270 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 48m 28s  
 CCSL: A108  
 FDSL: 11AF  
 TWNC: ON  
 SB: OFF  
 XB: LOW  
 PYR: .05/.10/.25  
 GYROS: OFF

1200 RTLT 39h 48m 40s  
 0000 RTLT 39h 48m 52s

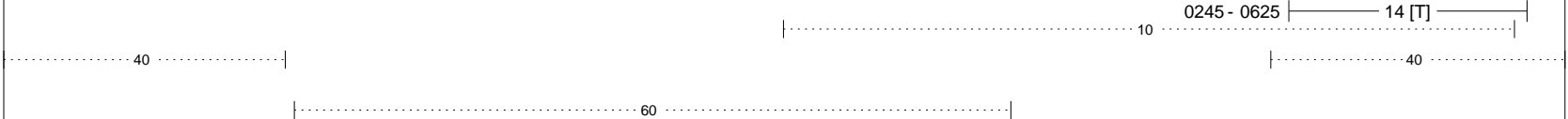
▼ 0335 DUMMY (19:24)

U/L 0400 | - |  
 TLC (SHORT-FORM) | - - - - -

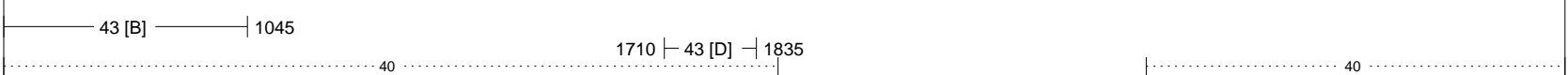
FDS MODE  
 XB DATA RATE(MI)

CR-5T  
 160(32)

31 DSN COVERAGE



32 DSN COVERAGE



S/C 32  
 INITIAL CONDITIONS  
 RTLT: 32h 49m 52s  
 CCSL: B181  
 FDSL: 11AF  
 TWNC: ON  
 SB: OFF  
 XB: LOW  
 PYR: .05/.10/.25  
 GYROS: OFF

1200 RTLT 32h 50m 2s  
 0000 RTLT 32h 50m 14s

▼ 0702 DUMMY (5 MIN BRACKETED 15:53)

FDS MODE  
 XB DATA RATE(MI)

CR-5T  
 160(32)

VGR COVERAGE

VGR 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: SEP 26 SEP 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	
THURSDAY SEPTEMBER 27, 2018 270-271																										
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 48m 52s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 39h 49m 4s																			█ 0000 RTLT 39h 49m 14s	
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
31 DSN COVERAGE	.....40.....												.....10.....													
	.....60.....												.....40.....													
32 DSN COVERAGE	.....40.....												.....40.....													
	1350  -----43 [D]-----  1850																									
S/C 32 INITIAL CONDITIONS RTLT: 32h 50m 14s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 32h 50m 24s																			█ 0000 RTLT 32h 50m 36s	
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 27													SEP 28												

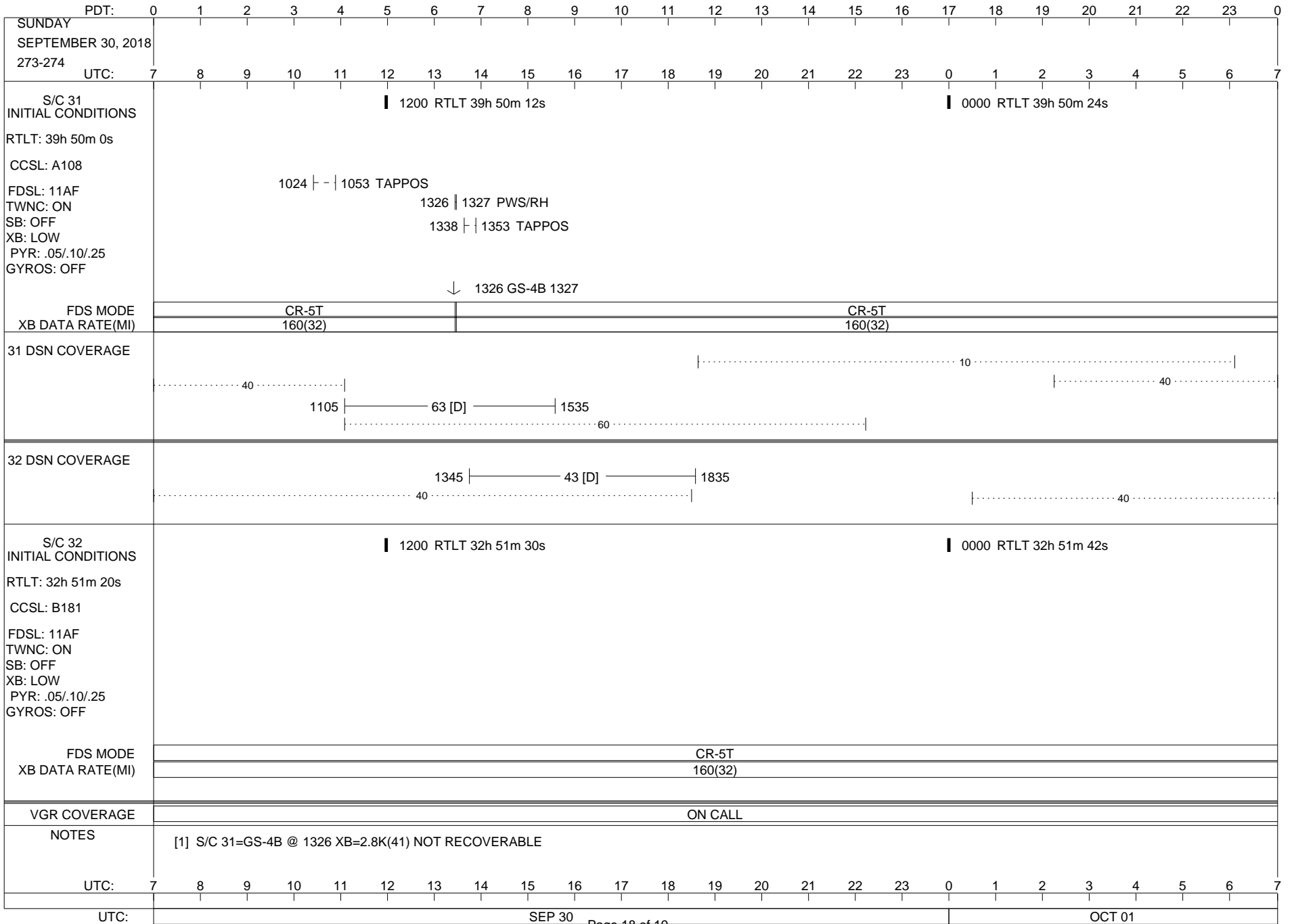




ISSUE DATE: 09/12/18 11:36

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 SEPTEMBER 29, 2018 272-273																											
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 49m 38s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 39h 49m 48s															█ 0000 RTLT 39h 50m 0s						
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
31 DSN COVERAGE	.....40.....													.....10.....													
	.....40.....													.....40.....													
	.....60.....													.....60.....													
32 DSN COVERAGE	-----43 [o]----- 1050													1525  -----43 [D]----- 1840													
	.....40.....													.....40.....													
S/C 32 INITIAL CONDITIONS RTLT: 32h 50m 58s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 32h 51m 8s																					
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 29													SEP 30													

ISSUE DATE: 09/12/18 11:36



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		
MONDAY OCTOBER 1, 2018 274-275																											
S/C 31 INITIAL CONDITIONS RTLT: 39h 50m 24s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p style="text-align: center;">█ 1200 RTLT 39h 50m 34s</p>																										
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)													
31 DSN COVERAGE	<p style="text-align: center;">.....40..... </p> <p style="text-align: center;">1105  -----63-----  1735</p> <p style="text-align: center;"> -----60----- </p>																										
32 DSN COVERAGE	<p style="text-align: center;">.....40..... </p> <p style="text-align: center;">1430  -----43 [D]-----  1830</p> <p style="text-align: center;"> -----40----- </p>																										
S/C 32 INITIAL CONDITIONS RTLT: 32h 51m 42s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p style="text-align: center;">█ 1200 RTLT 32h 51m 52s</p>																										
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:	OCT 01													OCT 02													