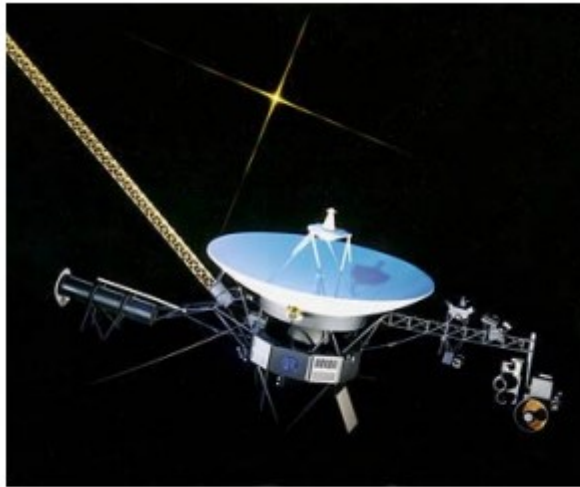


VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: September 11, 2019

For the Period: 09/12/19 to 09/30/19 (19/255 – 19/273)



Posted at <https://voyager.jpl.nasa.gov/mission/status/>

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

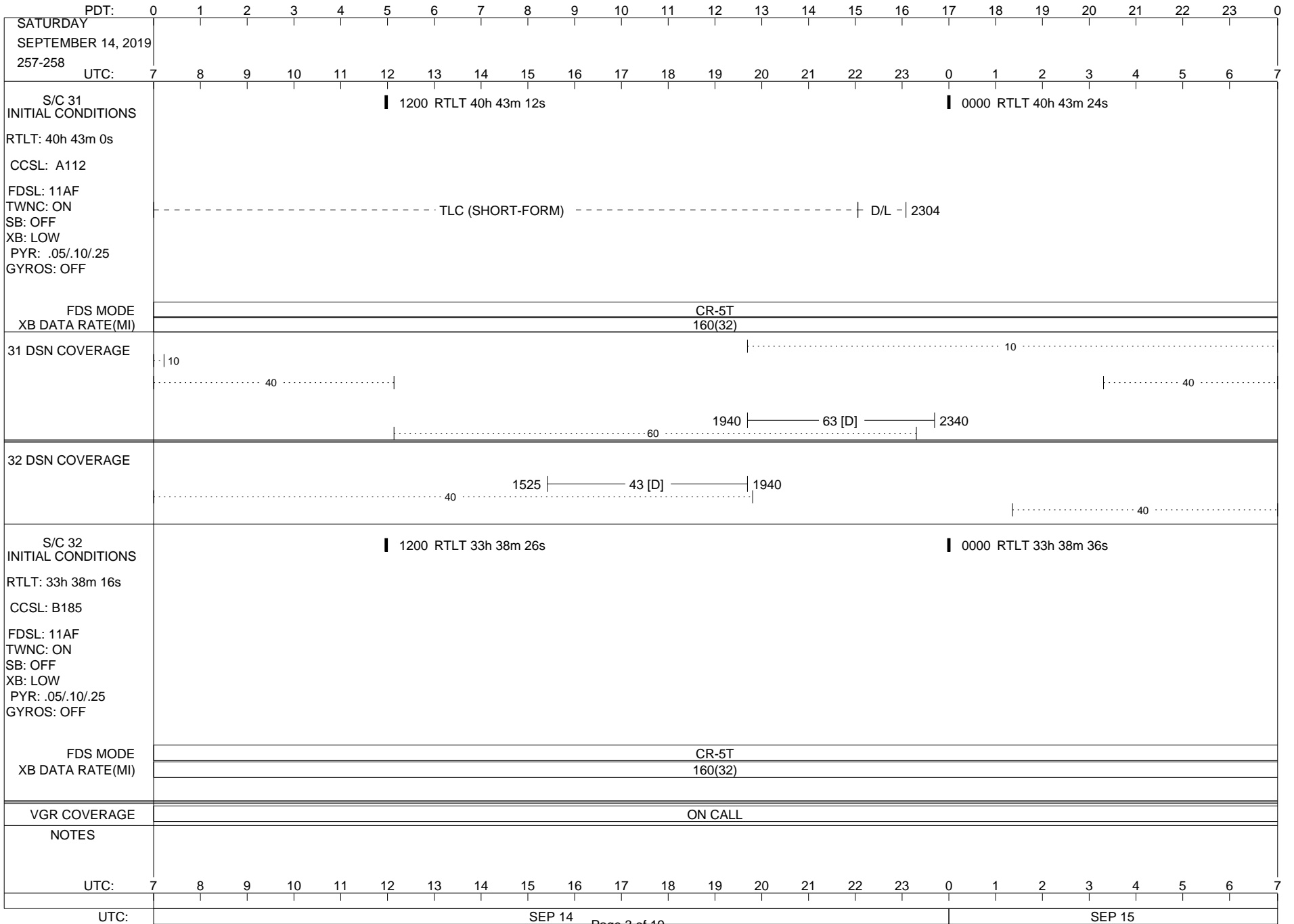
02/27/19

ISSUE DATE: 09/16/19 08:08

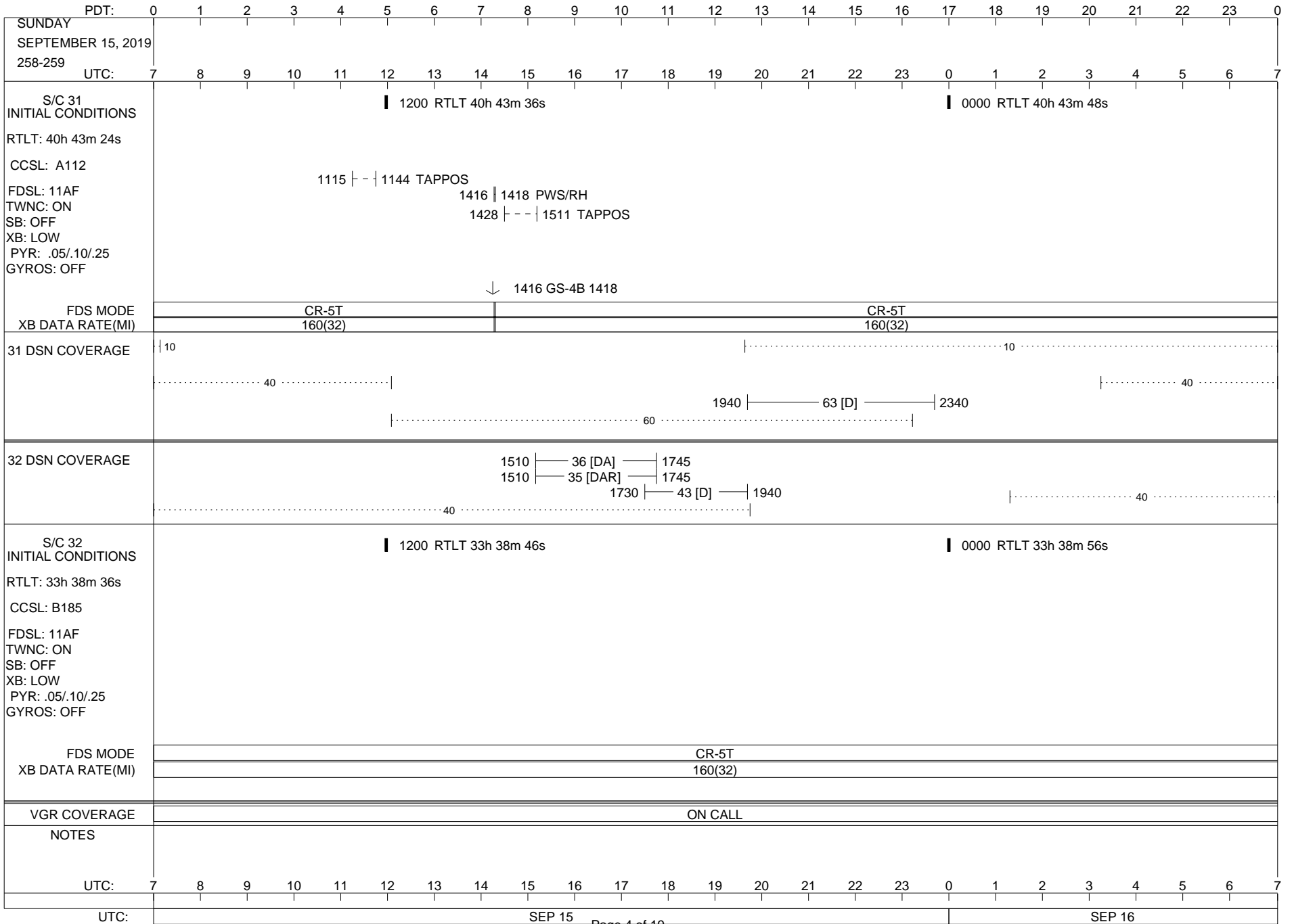
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S/C 31 INITIAL CONDITIONS RTLTL: 40h 42m 14s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 40h 42m 26s												0000 RTLTL 40h 42m 38s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	| 0720 14 [D] | 10										| 0315 | 14 [T]														
32 DSN COVERAGE	| 1435 | 43 [D] | 1935										| 40														
S/C 32 INITIAL CONDITIONS RTLTL: 33h 37m 34s CCSL: B185 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	| 1200 RTLTL 33h 37m 44s												| 0000 RTLTL 33h 37m 54s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL						VGR						ON CALL						VGR						
NOTES	----- COMMAND MORATORIUM ----- ↓ 1447 BAY 1 HTR OFF ↓ 1447 GYROS AC ON 1447 | --- | 1547 GYRO CONDITIONING ↓ 1547 GYROS OFF ↓ 1555 BAY 1 HTR ON ↓ 1450 EL-40 1450																								
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												

ISSUE DATE: 09/16/19 08:08

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FRIDAY SEPTEMBER 13, 2019 256-257																																		
S/C 31 INITIAL CONDITIONS		1200 RTLT 40h 42m 50s													0000 RTLT 40h 43m 0s																			
RTLT: 40h 42m 38s		0814 | 0829 TAPPOS																																
CCSL: A112		1116 || 1118 PWS/RH																																
FDSL: 11AF		1128 | - | 1157 TAPPOS																																
TWNC: ON		----- TLC (SHORT-FORM) -----																																
SB: OFF																																		
XB: LOW																																		
PYR: .05/.10/.25																																		
GYROS: OFF																																		
FDS MODE		CR-5T													CR-5T																			
XB DATA RATE(MI)		160(32)													160(32)																			
31 DSN COVERAGE		0715 14 [T] |-----| 2230 |-----| 14 [D] |-----| 0230 |-----| 10 |-----| 10 |-----| |-----| 40 |-----| |-----| 40 |-----| |-----| 60 |-----| |-----|																																
32 DSN COVERAGE		0820 |-----| 43 [DAR] |-----| 1220 0820 |-----| 36 [DA] |-----| 1220 1715 |-----| 1820 34 [DA] 1715 |-----| 1820 35 [DAR] |-----| 40 |-----|																																
S/C 32 INITIAL CONDITIONS		1200 RTLT 33h 38m 4s													0000 RTLT 33h 38m 16s																			
RTLT: 33h 37m 54s		----- COMMAND MORATORIUM -----																																
CCSL: B185		0945 BAY 1 HTR OFF																																
FDSL: 11AF		0945 GYROS BC ON																																
TWNC: ON		0945 GYRO INIT																																
SB: OFF		0955 GYRO FAULT TEST																																
XB: LOW		1011 | 1011 WGY MRO																																
PYR: .05/.10/.25		1015 AAI																																
GYROS: OFF		1018 | - | 1052 1-REV MAGROL																																
		1058 RAI																																
		1103 GYROS OFF																																
		0947 EL-40 0949 | 1111 BAY 1 HTR ON																																
FDS MODE		CR-5T													CR-5T																			
XB DATA RATE(MI)		160(32)													160(32)																			
VGR COVERAGE		ON CALL							VGR							ON CALL							VGR						ON CALL					
NOTES		[1] S/C 32 - D/L AGC VARIATIONS EXPECTED DURING MAGROL (1018-1052)																																
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 13													SEP 14																			



ISSUE DATE: 09/16/19 08:08



ISSUE DATE: 09/16/19 08:08

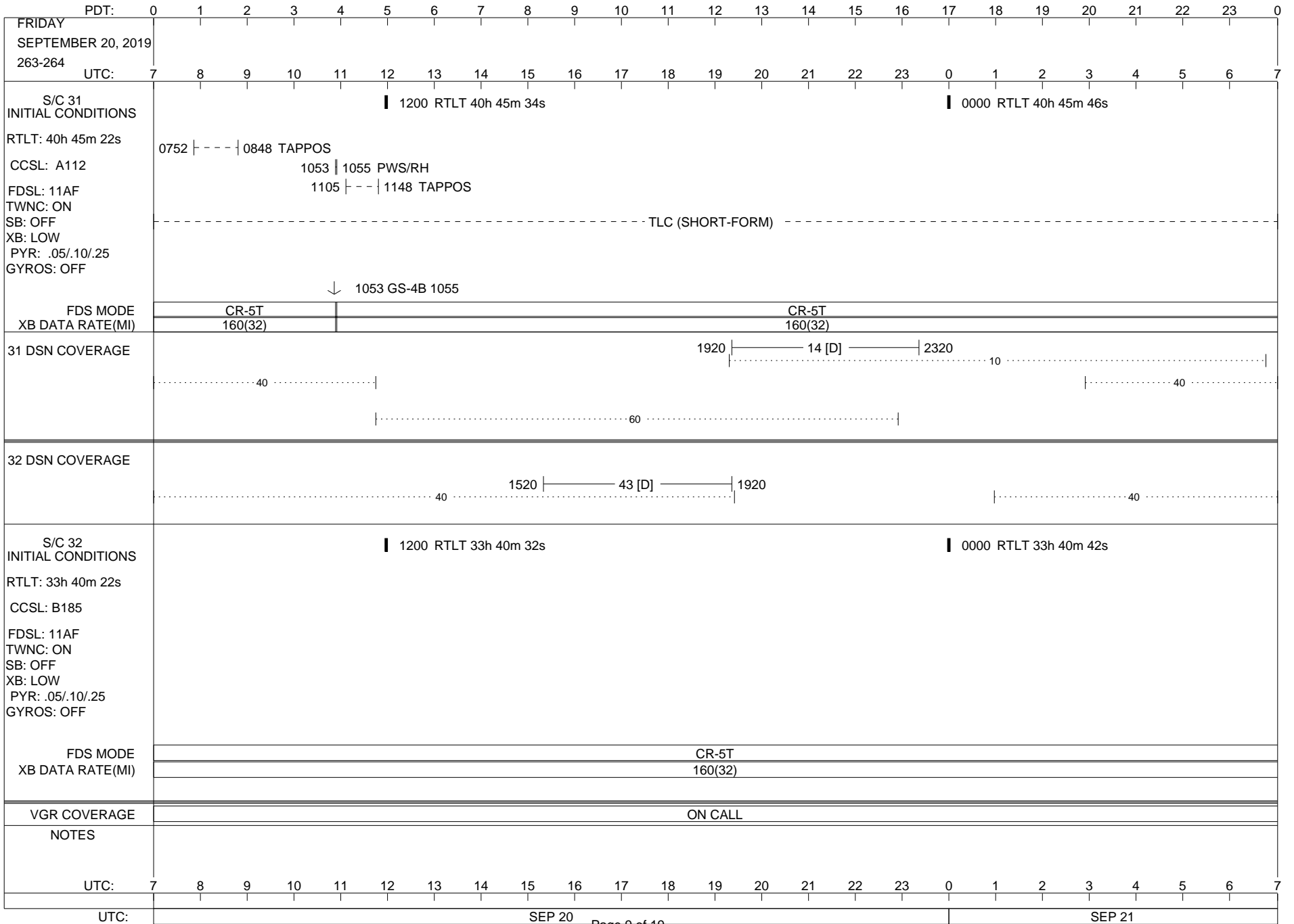
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S/C 31 INITIAL CONDITIONS RTLT: 40h 43m 48s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200																			
FDS MODE																									
XB DATA RATE(MI)																									
31 DSN COVERAGE	10																								
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS RTLT: 33h 38m 56s CCSL: B185 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
UTC:																									

ISSUE DATE: 09/16/19 08:08

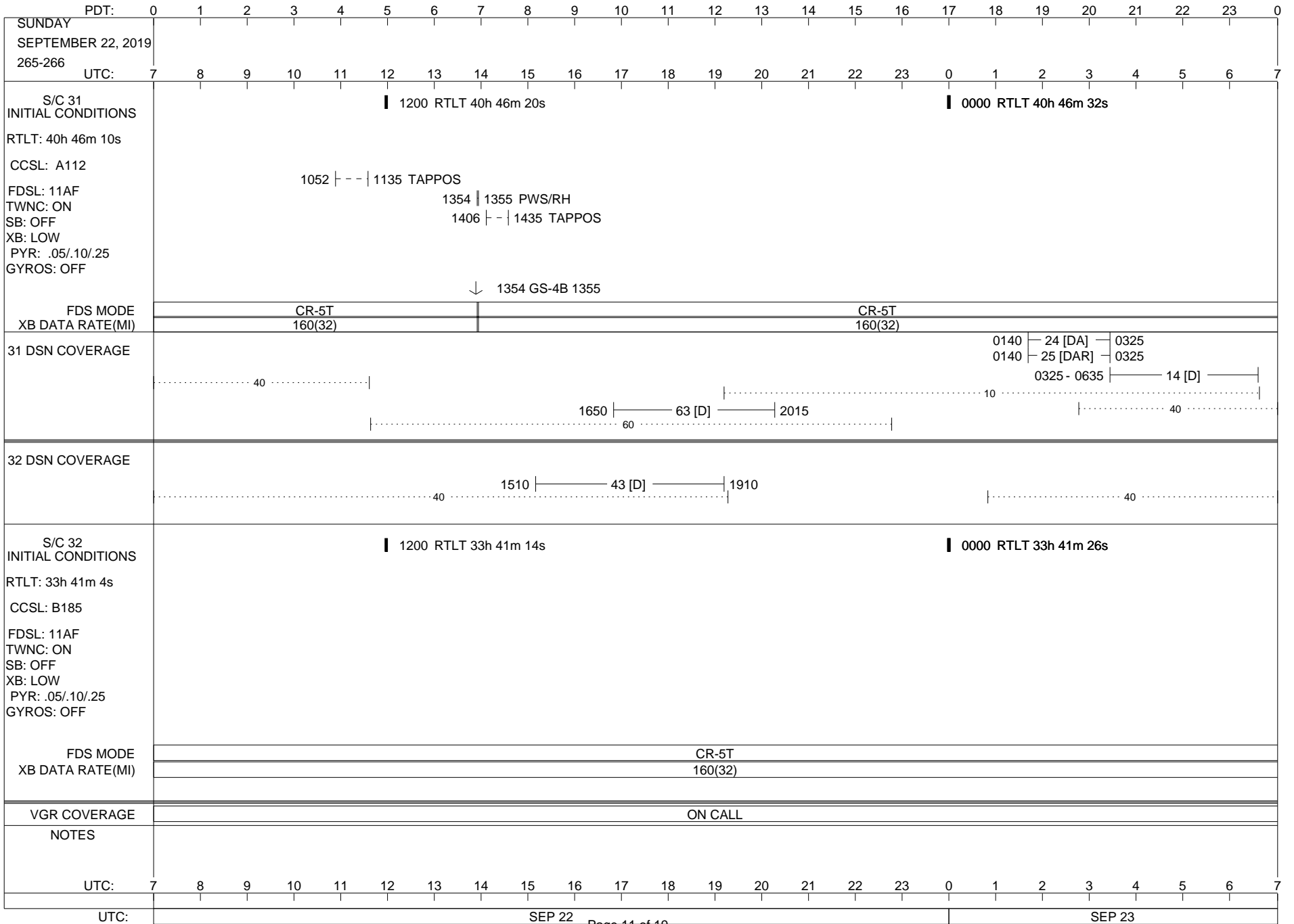
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TUESDAY SEPTEMBER 17, 2019 260-261																															
UTC:		7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7					
S/C 31 INITIAL CONDITIONS RTLT: 40h 44m 12s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		| 1200 RTLT 40h 44m 24s												| 0000 RTLT 40h 44m 36s																	
FDS MODE		CR-5T												CR-5T																	
XB DATA RATE(MI)		160(32)												160(32)																	
31 DSN COVERAGE		0700 14 [D] 10														1930 - 0655 | 14 [D]															
	40.....															10.....									40.....			
		.....60.....																												
32 DSN COVERAGE		1240 | 43 [D]												1935																	
		.....40.....																.....40.....											
S/C 32 INITIAL CONDITIONS RTLT: 33h 39m 18s CCSL: B185 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		| 1200 RTLT 33h 39m 28s												| 0000 RTLT 33h 39m 38s																	
FDS MODE		CR-5T												CR-5T																	
XB DATA RATE(MI)		160(32)												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 17															SEP 18														

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 18, 2019	
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	
<p>S/C 31 INITIAL CONDITIONS RTLT: 40h 44m 36s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF</p>	<p>1200 RTLT 40h 44m 48s</p> <p>0000 RTLT 40h 44m 58s</p> <p>↓ 2202 PITCH SSB</p>
FDS MODE	CR-5T
XB DATA RATE(MI)	160(32)
31 DSN COVERAGE	<p>..... 40</p> <p>..... 60 1955 |----- 63 [D] -----| 2325</p> <p>..... 40</p>
32 DSN COVERAGE	<p>..... 40 1500 |----- 43 [D] -----| 1930</p> <p>..... 40</p>
<p>S/C 32 INITIAL CONDITIONS RTLT: 33h 39m 38s CCSL: B185 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF</p>	<p>1200 RTLT 33h 39m 50s</p> <p>0000 RTLT 33h 40m 0s</p> <p>---| 0749 PLSCAL 1543 | PLSCAL -| 1725</p> <p>-- MAGCAL --| 0909 1543 |--- MAGCAL ---| 1845</p> <p>--- PESCAL ---| 0927 1543 |--- PESCAL ---| 1903</p>
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 18 | SEP 19	

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 19, 2019 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 RTLTL: 40h 44m 58s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/.25 GYROS: OFF	| 1200 RTLTL 40h 45m 10s												| 0000 RTLTL 40h 45m 22s													
FDS MODE	CR-5T																									
XB DATA RATE(MI)	160(32)																									
31 DSN COVERAGE	.....| 40 .....												.....| 40											
	.....| 60 .....												.....| 40											
	.....| 2140 | 63 [D] | 2320 .....												.....| 0345 - 0645 | 14 [T] | .....													
32 DSN COVERAGE	.....| 40 .....												.....| 40											
	.....| 1525 | 43 [D] | 1925 .....												.....| 40											
S/C 32 INITIAL CONDITIONS RTLTL: 33h 40m 0s CCSL: B185 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/.25 GYROS: OFF	| 1200 RTLTL 33h 40m 10s												| 0000 RTLTL 33h 40m 22s													
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	
UTC:	SEP 19													SEP 20												



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 21, 2019 264-265	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: 40h 45m 46s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 40h 45m 58s												█ 0000 RTLT 40h 46m 10s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	..... 40 .....												..... 40											
	..... 1750 |----- 63 [D] -----| 2315 60																							
32 DSN COVERAGE	0805 |----- 43 [B] -----| 1205 40 .....												..... 40											
S/C 32 INITIAL CONDITIONS RTLT: 33h 40m 42s CCSL: B185 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 33h 40m 54s												█ 0000 RTLT 33h 41m 4s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE	VGR												ON CALL												
NOTES	▼ 0832 DUMMY (5 MIN BRACKETED 18:13)																								
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 21												SEP 22												



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 23, 2019 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: 40h 46m 32s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 40h 46m 44s												█ 0000 RTLTL 40h 46m 56s													
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
31 DSN COVERAGE	.....40.....|.....60.....|												.....10.....0305- 0630 |----- 14 [D] -----|.....40.....											
32 DSN COVERAGE	.....40.....1405 |----- 43 [D] -----|1850.....												.....|.....40.....											
S/C 32 INITIAL CONDITIONS RTLTL: 33h 41m 26s CCSL: B185 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 33h 41m 36s												█ 0000 RTLTL 33h 41m 48s													
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 23													SEP 24												

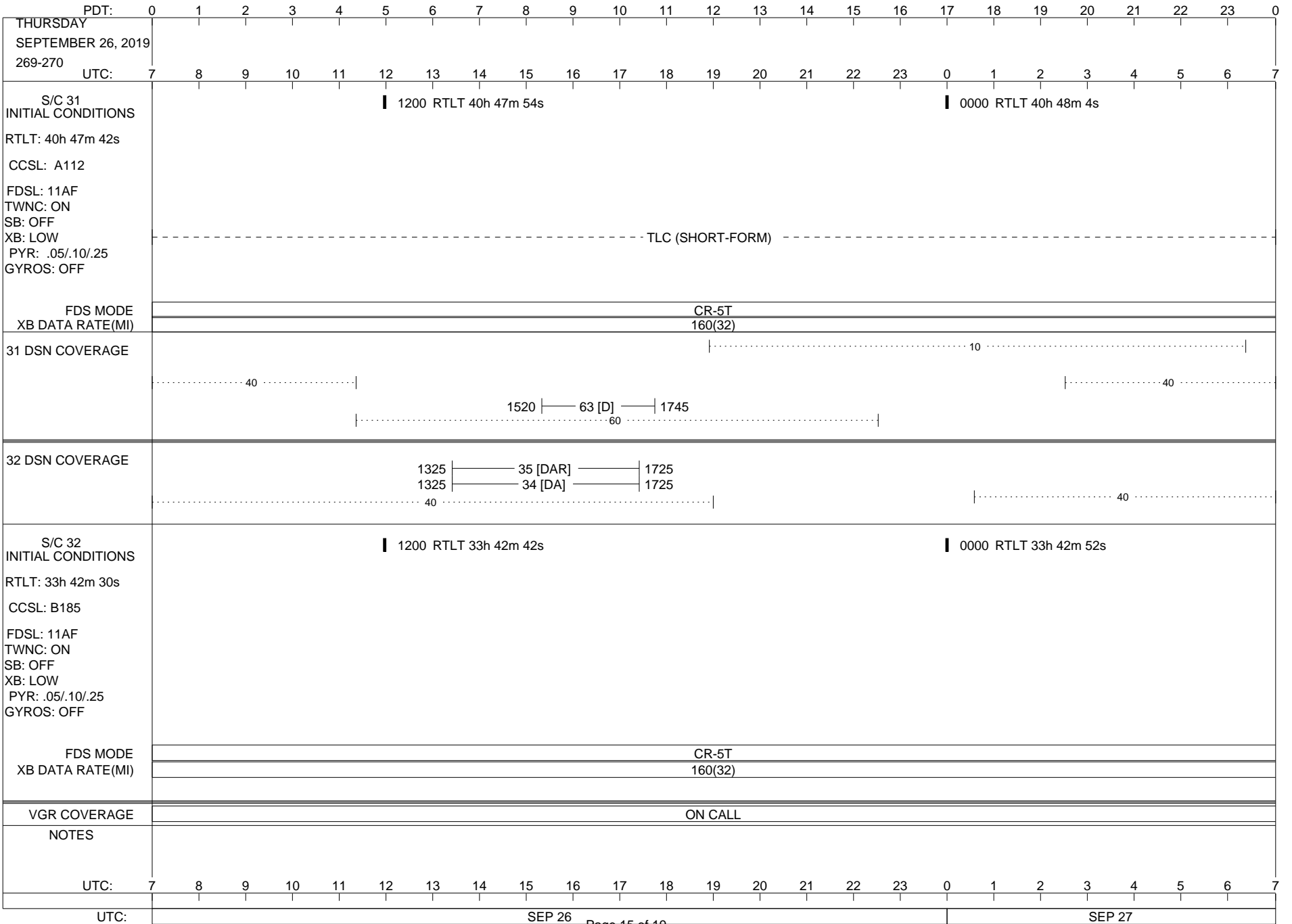
ISSUE DATE: 09/16/19 08:08

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TUESDAY SEPTEMBER 24, 2019 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: 40h 46m 56s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 40h 47m 8s												█ 0000 RTLT 40h 47m 18s								
FDS MODE	CR-5T											CR-5T														
XB DATA RATE(MI)	160(32)											160(32)														
31 DSN COVERAGE	|-----40-----|											|-----10-----|														
	|-----40-----|											|-----40-----|														
	|-----60-----|											|-----63 [D]-----|														
	|-----1810-----|											|-----2300-----|														
32 DSN COVERAGE	|-----40-----|											|-----40-----|														
	|-----40-----|											|-----40-----|														
	|-----40-----|											|-----40-----|														
S/C 32 INITIAL CONDITIONS RTLT: 33h 41m 48s CCSL: B185 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 33h 41m 58s												█ 0000 RTLT 33h 42m 8s								
FDS MODE	CR-5T											CR-5T														
XB DATA RATE(MI)	160(32)											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												

ISSUE DATE: 09/16/19 08:08

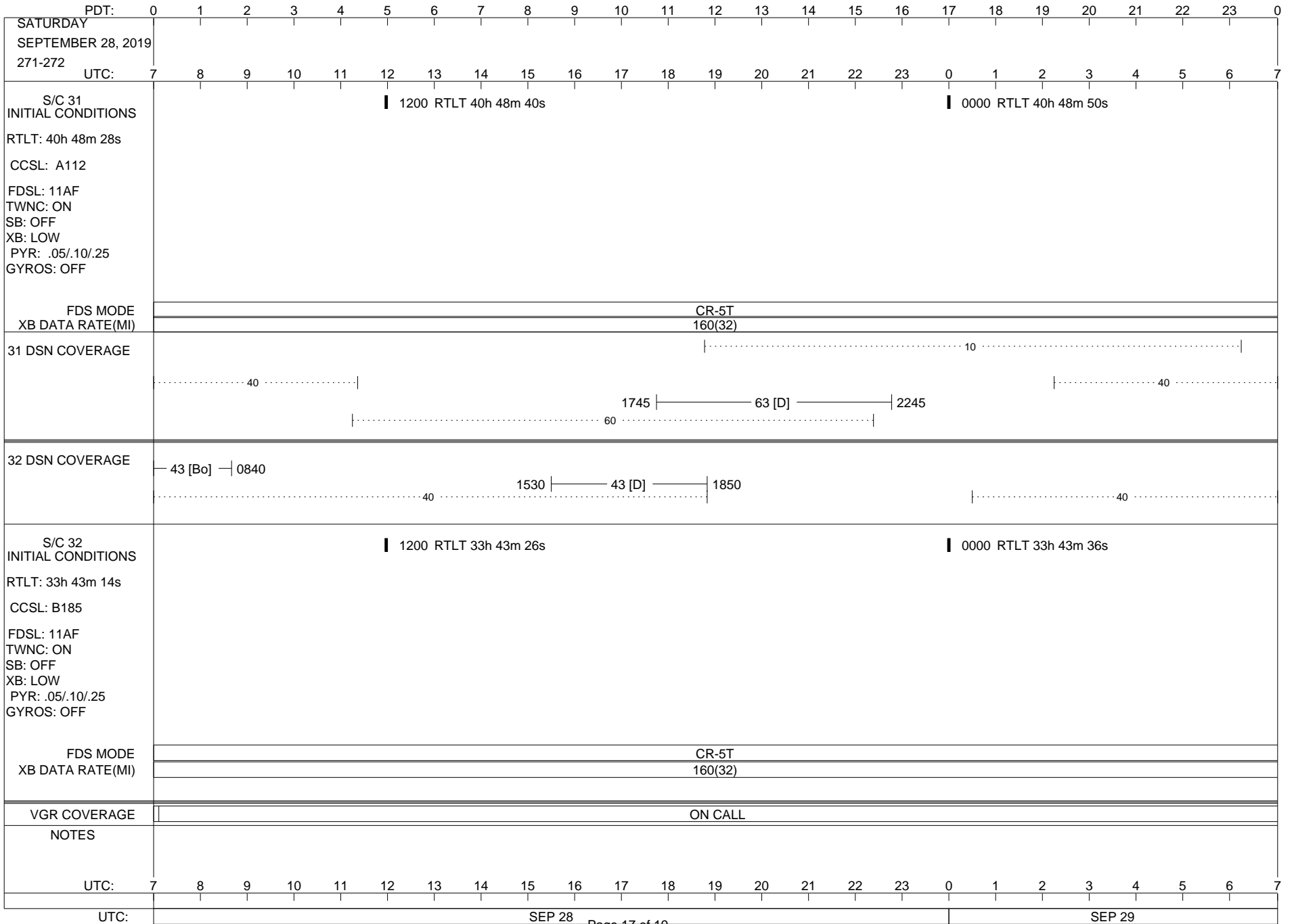
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UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
S/C 31 INITIAL CONDITIONS RTLT: 40h 47m 18s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF						█ 1200 RTLT 40h 47m 30s												█ 0000 RTLT 40h 47m 42s								
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
31 DSN COVERAGE																										
32 DSN COVERAGE																										
S/C 32 INITIAL CONDITIONS RTLT: 33h 42m 8s CCSL: B185 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF						█ 1200 RTLT 33h 42m 20s												█ 0000 RTLT 33h 42m 30s								
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	
UTC:	SEP 25																		SEP 26							

ISSUE DATE: 09/16/19 08:08

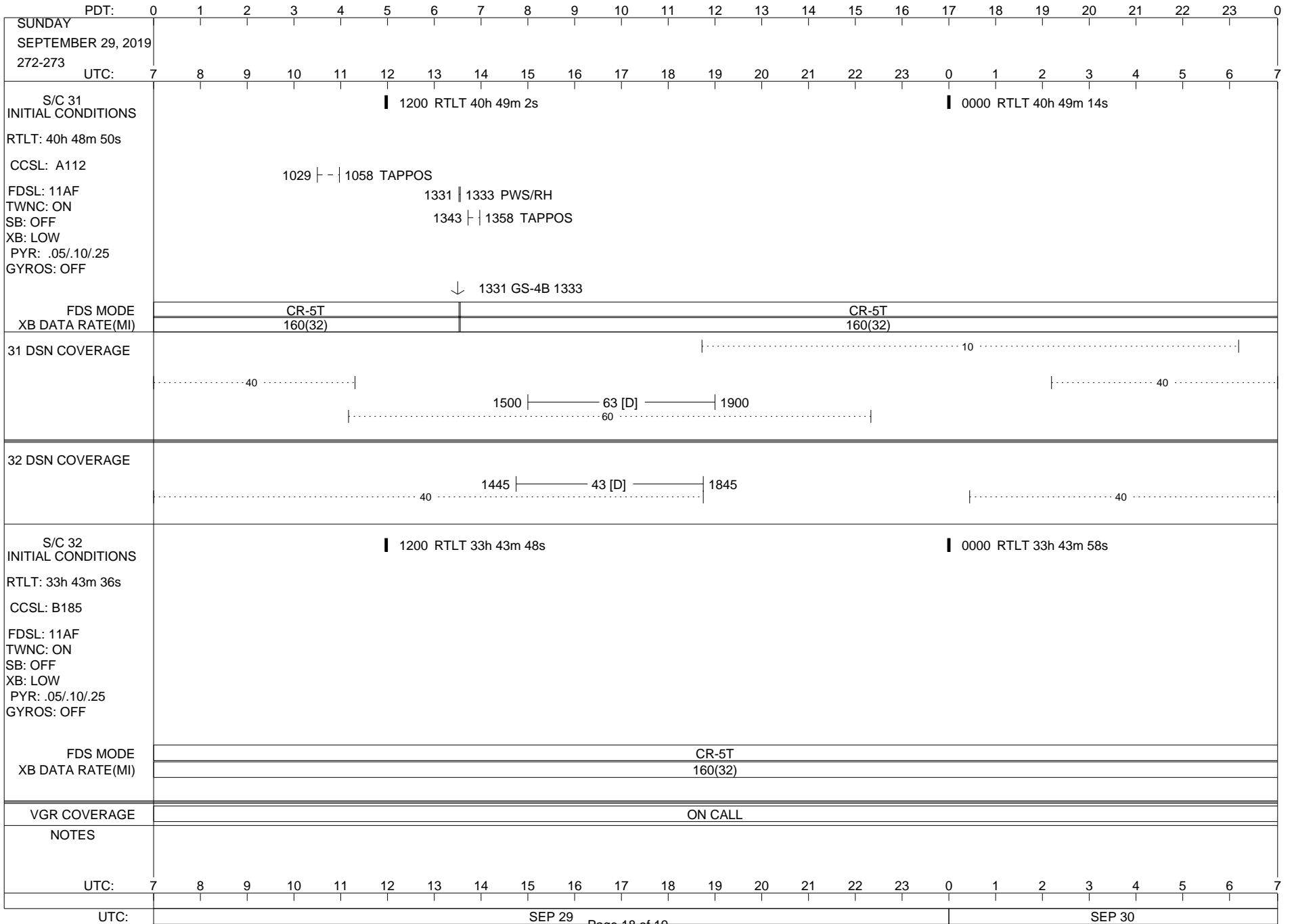


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UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLTL: 40h 48m 4s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLTL 40h 48m 16s												0000 RTLTL 40h 48m 28s												
	| - - | 0729 - 0812 TAPPOS 1031 | 1032 PWS/RH 1043 | - | 1112 TAPPOS												| D/L - | 2211												
	↓ 1031 GS-4B 1032																								
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	.....40.....|												|.....10.....|												
	.....60.....|												1955 |----- 63 [D] -----| 2250											
32 DSN COVERAGE	1135 |----- 43 [D] -----| 1535												0450 |----- 43 [Bo] -----|												
S/C 32 INITIAL CONDITIONS RTLTL: 33h 42m 52s CCSL: B185 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLTL 33h 43m 4s												0000 RTLTL 33h 43m 14s												
													DUMMY (5 MIN BRACKETED 15:51) 0607▼												
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:	SEP 27												SEP 28												

ISSUE DATE: 09/16/19 08:08



ISSUE DATE: 09/16/19 08:08



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 30, 2019 273-274																											
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: 40h 49m 14s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 40h 49m 26s</p> </div>																										
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
31 DSN COVERAGE	<div style="text-align: center;"> <p>40 |-----| 60 |-----| 63 [D] |-----| 2240</p> </div>																										
32 DSN COVERAGE	<div style="text-align: center;"> <p>40 |-----| 43 [D] |-----| 1840</p> </div>																										
S/C 32 INITIAL CONDITIONS RTLT: 33h 43m 58s CCSL: B185 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 33h 44m 10s</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 30													OCT 01													