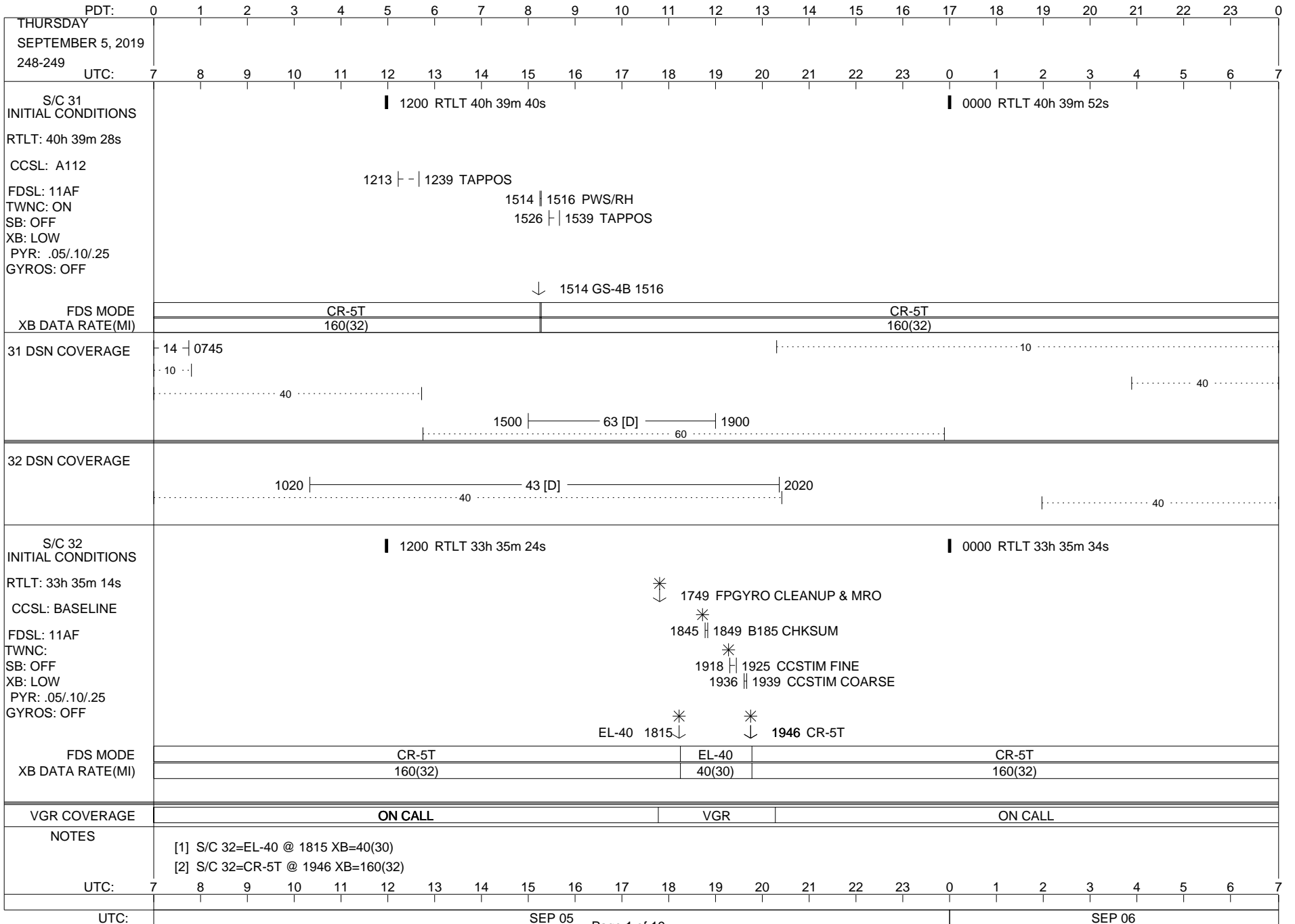


ISSUE DATE: 09/11/19 08:23

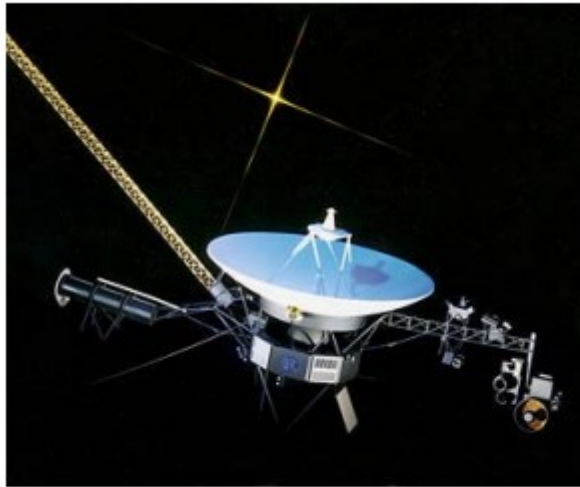


# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: September 4, 2019

For the Period: 09/05/19 to 09/23/19 (19/248 – 19/266)



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

**LEGEND:**

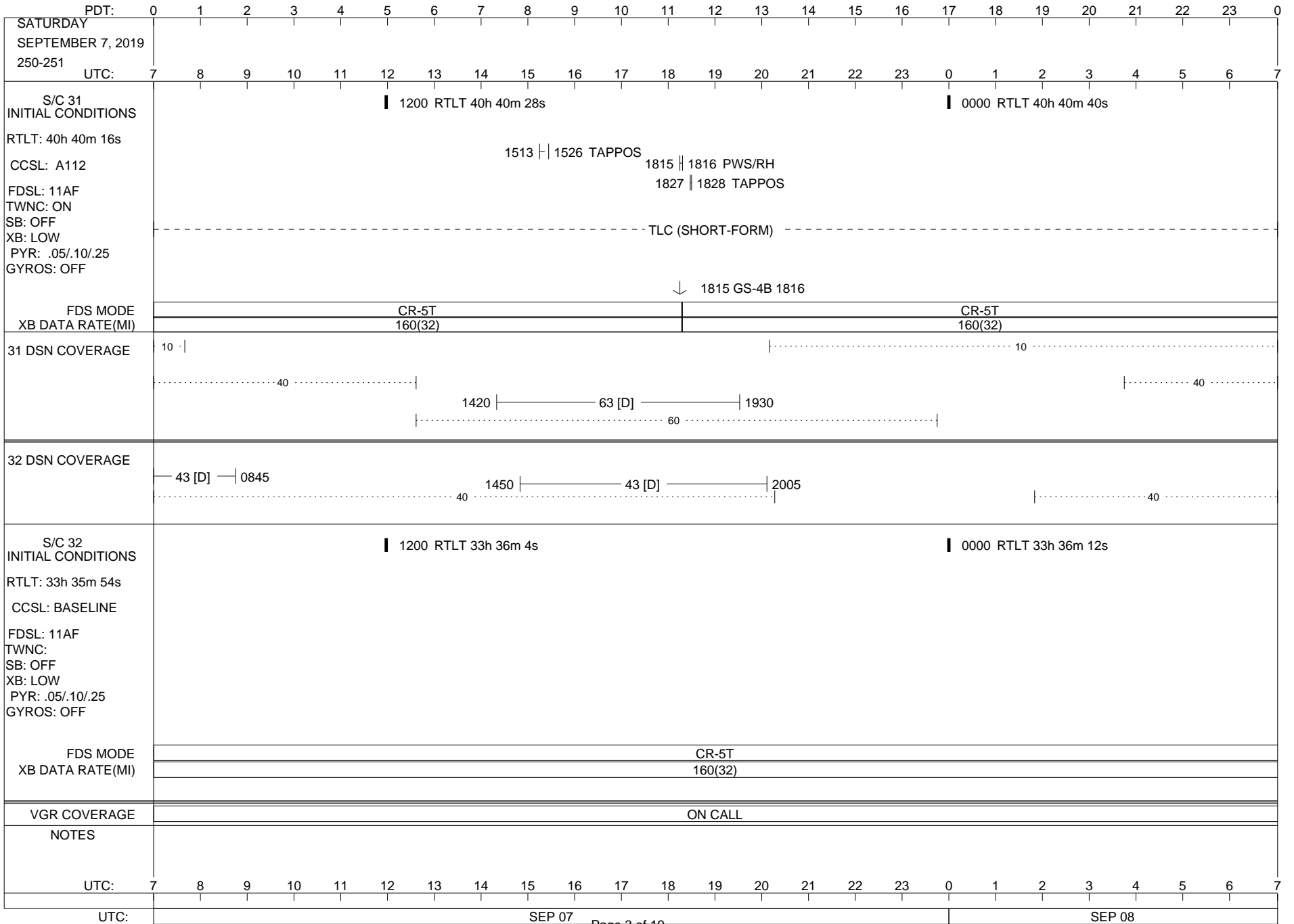
- ▽ = R/T Command (Last chance or Contingency)
- ▼ = R/T Command (Scheduled)
- \* = Result of R/T Command
- n = (where n = 1,2,3 ..) Special Note, see bottom of page
- A = Arrayed station
- B = BLF
- D = Downlink only pass
- H = High Power Transmitter
- R = Array Reference Antenna
- T = TLC Uplink
- U = Uplink only pass
- [o] = Ramp-through

02/27/19

ISSUE DATE: 09/11/19 08:23

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 6, 2019 249-250																													
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 39m 52s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLT 40h 40m 4s												0000 RTLT 40h 40m 16s															
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)															
31 DSN COVERAGE																													
32 DSN COVERAGE																													
S/C 32 INITIAL CONDITIONS RTLT: 33h 35m 34s CCSL: BASELINE FDSL: 11AF TWNC: SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLT 33h 35m 44s												0000 RTLT 33h 35m 54s															
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)															
VGR COVERAGE		ON CALL												VGR						ON CALL									
NOTES		[1] B185 BACKUP U/L SUPPORT																											
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															

ISSUE DATE: 09/11/19 08:23



ISSUE DATE: 09/11/19 08:23

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SUNDAY SEPTEMBER 8, 2019 251-252																												
S/C 31 INITIAL CONDITIONS RTLT: 40h 40m 40s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p style="text-align: center;">1200 RTLT 40h 40m 50s <span style="float: right;">0000 RTLT 40h 41m 2s</span></p> <p style="text-align: center;">↓ 1627 START A112D MINI-SEQUENCE</p> <p style="text-align: center;">↓ 1646 BAY 1 HTR OFF</p> <p style="text-align: center;">↓ 1650 X/B HI POWER</p> <p style="text-align: center;">↓ 1710 PYR=.05/.05/.05 DB</p> <p style="text-align: center;">↓ 1714  ---  1747 SSB ASCAL</p> <p style="text-align: center;">↓ 1747 PYR=.05/.10/.25</p> <p style="text-align: center;">↓ 1757 X/B LOW POWER</p> <p style="text-align: center;">↓ 1801 BAY 1 HTR ON</p> <p style="text-align: center;">↓ 1827 END SSB ASCAL MINI-SEQUENCE</p> <p style="text-align: center;">EL-40 1654 ↓ ↓ 1750 CR-5T</p> <p style="text-align: center;">* A112D CHKSUM 1500    1504</p> <p style="text-align: center;">TLC (SHORT-FORM) -----  D/L   1643</p>																											
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)							EL-40 40(30)							CR-5T 160(32)													
31 DSN COVERAGE	<p>10  -----  10</p> <p>40  -----  40</p> <p>1420  ----- 63 [D] -----  1820</p> <p>60  ----- </p>																											
32 DSN COVERAGE	<p>1330  ----- 43 [D] -----  1935</p> <p>40  -----  40</p>																											
S/C 32 INITIAL CONDITIONS RTLT: 33h 36m 12s CCSL: BASELINE FDSL: 11AF TWNC: SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p style="text-align: center;">1200 RTLT 33h 36m 22s <span style="float: right;">0000 RTLT 33h 36m 34s</span></p>																											
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																											
VGR COVERAGE	ON CALL							VGR							ON CALL													
NOTES	<p>[1] S/C 31=EL-40 @ 1654 XB=40(30)</p> <p>[2] S/C 31=CR-5T @ 1750 XB=160(32)</p>																											
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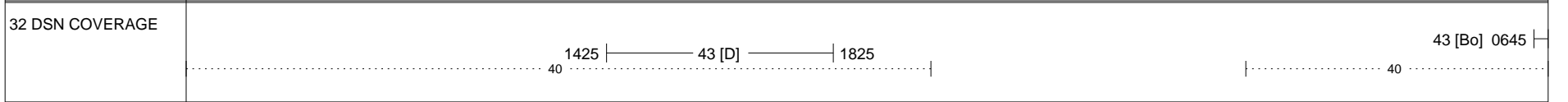
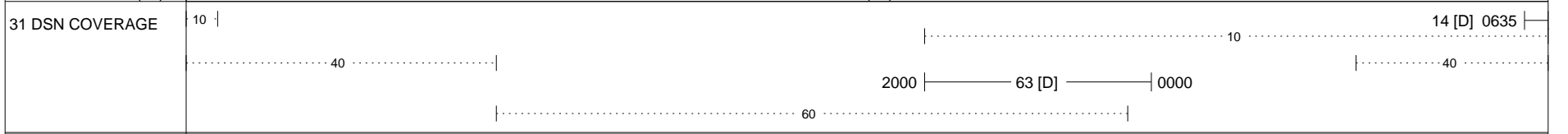
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MONDAY  
 SEPTEMBER 9, 2019  
 252-253

S/C 31  
 INITIAL CONDITIONS  
 RTLT: 40h 41m 2s  
 CCSL: A112  
 FDSL: 11AF  
 TWNC: ON  
 SB: OFF  
 XB: LOW  
 PYR: .05/.10/.25  
 GYROS: OFF

1200 RTLT 40h 41m 14s  
 0000 RTLT 40h 41m 26s

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



S/C 32  
 INITIAL CONDITIONS  
 RTLT: 33h 36m 34s  
 CCSL: BASELINE  
 FDSL: 11AF  
 TWNC:  
 SB: OFF  
 XB: LOW  
 PYR: .05/.10/.25  
 GYROS: OFF

1200 RTLT 33h 36m 44s  
 0000 RTLT 33h 36m 54s

↓ 0229 BEGIN SEQUENCE B185

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 09														SEP 10										

ISSUE DATE: 09/11/19 08:23

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 10, 2019																												
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		1200 RTLT 40h 41m 38s												0000 RTLT 40h 41m 50s														
RTLT: 40h 41m 26s																												
CCSL: A112																												
FDSL: 11AF																												
TWNC: ON																												
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																												
32 DSN COVERAGE																												
S/C 32 INITIAL CONDITIONS		1200 RTLT 33h 37m 4s												0000 RTLT 33h 37m 14s														
RTLT: 33h 36m 54s		▼ 0712 DUMMY (5 MIN BRACKETED 16:50)																										
CCSL: B185		0743 - 0759 SHUNT POWER TEST																										
FDSL: 11AF		↓ 1036 PYR=.05/.05/.05																										
TWNC:		1040   -   1113 SSB ASCAL																										
SB: OFF		↓ 1113 PYR=.05/.10/.25																										
XB: LOW																												
PYR: .05/.10/.25																												
GYROS: OFF																												
FDS MODE		CR-5T				EL-40				CR-5T																		
XB DATA RATE(MI)		160(32)				40(30)				160(32)																		
VGR COVERAGE		VGR				ON CALL				VGR																		
NOTES		<p>[1] S/C 31=EL-40 @ 1014 XB=40(30)</p> <p>[2] S/C 32=CR-5T @ 1116 XB=160(32)</p>																										
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: 09/11/19 08:23

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 11, 2019 254-255																									
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S/C 31 INITIAL CONDITIONS RTLTL: 40h 41m 50s CCSL: A112 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																									
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS RTLTL: 33h 37m 14s CCSL: B185 FDSL: 11AF TWNC: SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF						█ 1200												█ 0000							
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:																									

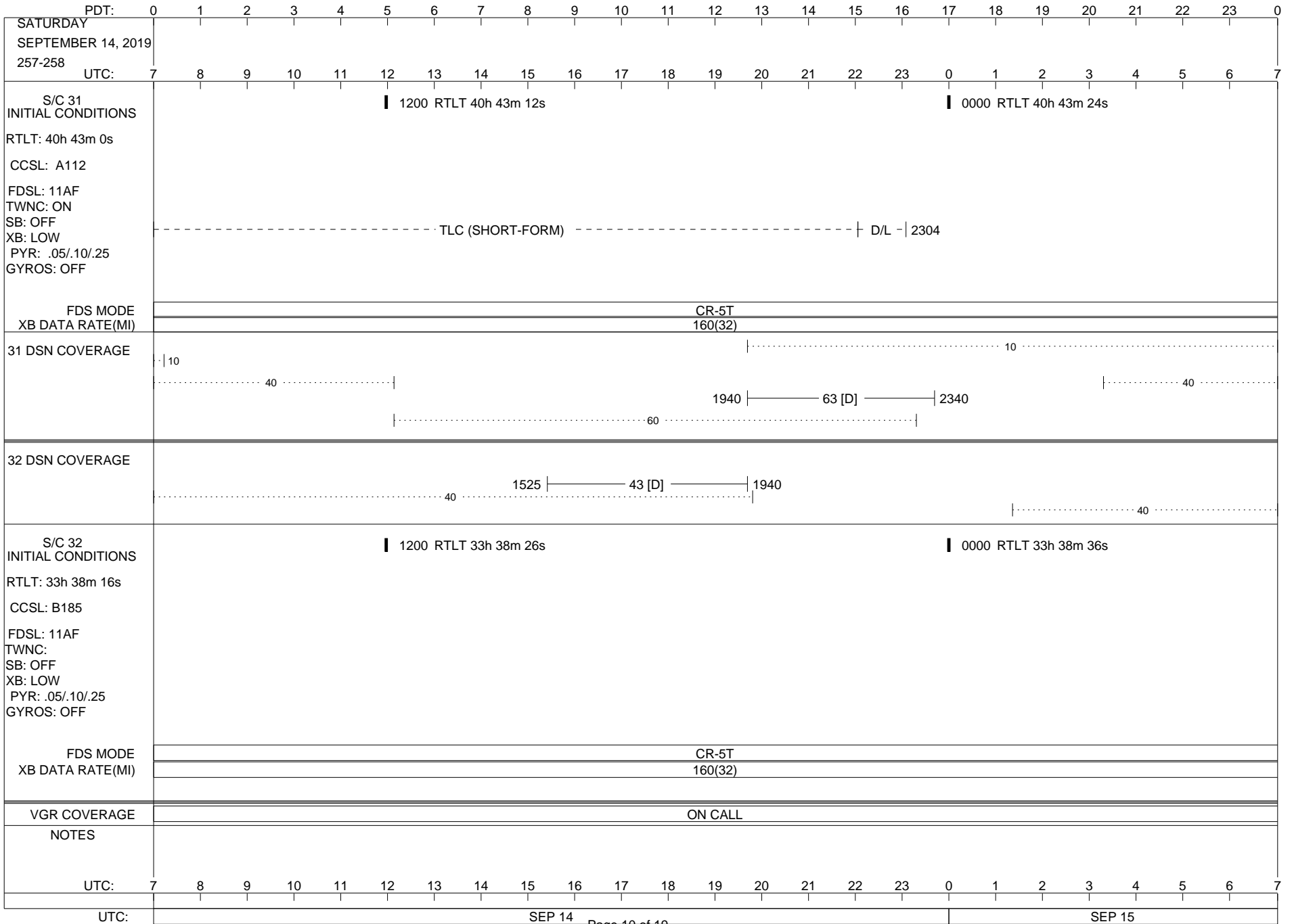


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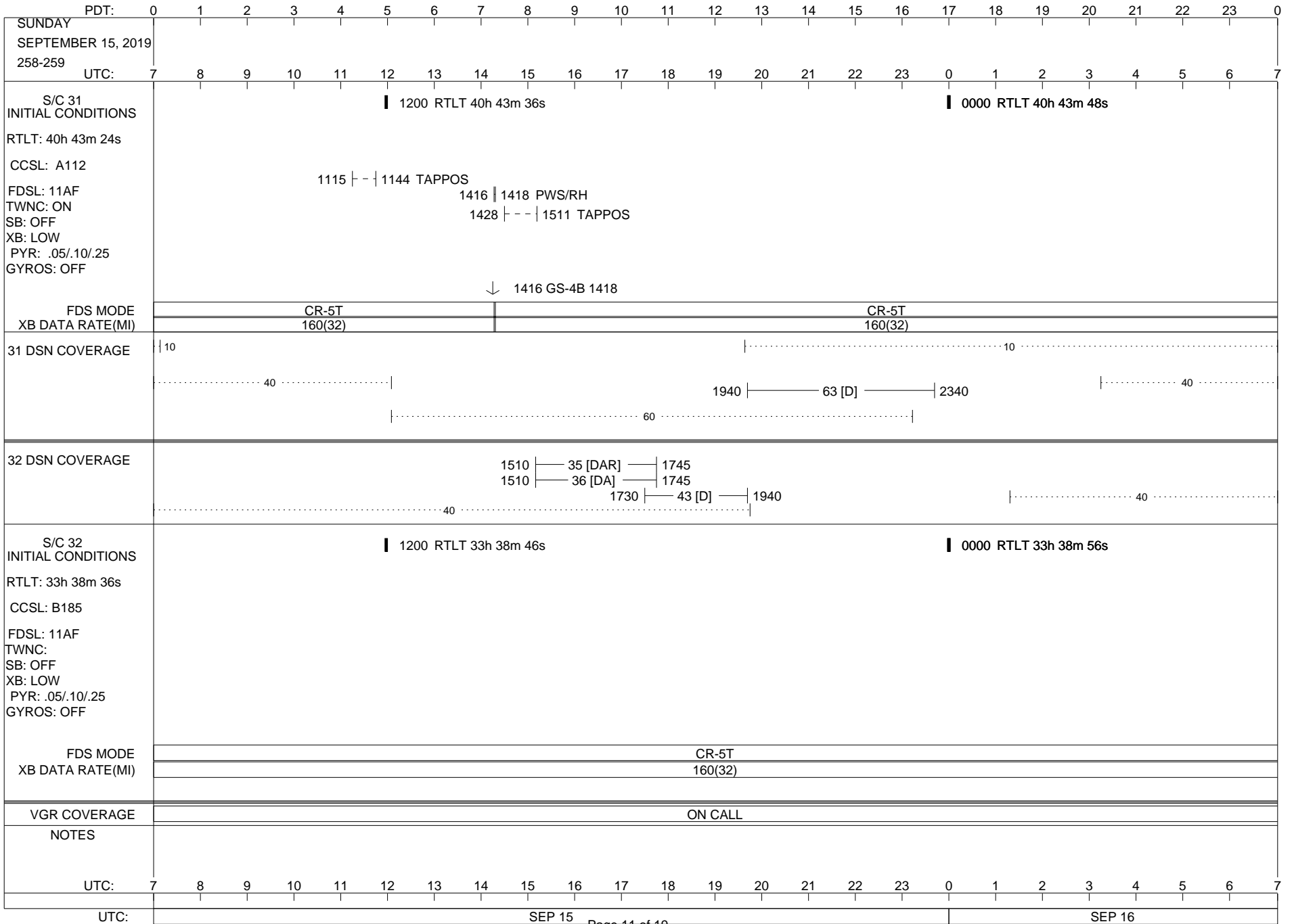
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THURSDAY SEPTEMBER 12, 2019 255-256																														
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7					
S/C 31 INITIAL CONDITIONS RTLTL: 40h 42m 14s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 42m 26s												0000 RTLT 40h 42m 38s																	
FDS MODE	CR-5T												CR-5T																	
XB DATA RATE(MI)	160(32)												160(32)																	
31 DSN COVERAGE	0720 14 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: SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 37m 44s												0000 RTLT 33h 37m 54s																	
FDS MODE	CR-5T												CR-5T																	
XB DATA RATE(MI)	160(32)												160(32)																	
VGR COVERAGE	VGR						VGR						ON CALL						VGR						ON CALL					
NOTES	<p style="text-align: center;">----- COMMAND MORATORIUM -----</p> <p style="text-align: center;">↓ 1447 BAY 1 HTR OFF ↓ 1447 GYROS AC ON 1447  ---  1547 GYRO CONDITIONING ↓ 1547 GYROS OFF ↓ 1555 BAY 1 HTR ON</p> <p style="text-align: center;">↓ 1450 EL-40 1450</p>																													
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: 09/11/19 08:23

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 13, 2019 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 RTLTL: 40h 42m 38s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLT 40h 42m 50s												0000 RTLT 40h 43m 0s											
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)						CR-5T 160(32)																	
31 DSN COVERAGE		0715 14 [T] 10 40 60												2230 14 [D] 0230 10 40											
32 DSN COVERAGE		0820 36 [DA] 1220 0820 43 [DAR] 1220												1715 1820 34 [DA] 1715 1820 35 [DAR] 40											
S/C 32 INITIAL CONDITIONS RTLTL: 33h 37m 54s CCSL: B185 FDSL: 11AF TWNC: SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLT 33h 38m 4s												0000 RTLT 33h 38m 16s											
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)						CR-5T 160(32)						COMMAND MORATORIUM 0007											
VGR COVERAGE		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: 09/11/19 08:23



ISSUE DATE: 09/11/19 08:23

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 16, 2019 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 RTLT: 40h 43m 48s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█																			
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: SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█																			
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: 09/11/19 08:23

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 17, 2019																												
260-261																												
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S/C 31 INITIAL CONDITIONS		1200 RTLT 40h 44m 24s												0000 RTLT 40h 44m 36s														
RTLT: 40h 44m 12s																												
CCSL: A112																												
FDSL: 11AF																												
TWNC: ON																												
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		0700 14 [D] 10												0135 - 0655   14 [D]														
		.....40.....												.....10.....														
		.....60.....												.....40.....														
32 DSN COVERAGE		1240   43 [D]   1640												.....40.....														
S/C 32 INITIAL CONDITIONS		1200 RTLT 33h 39m 28s												0000 RTLT 33h 39m 38s														
RTLT: 33h 39m 18s																												
CCSL: B185																												
FDSL: 11AF																												
TWNC:																												
SB: OFF																												
XB: LOW																												
PYR: .05/.10/.25																												
GYROS: OFF																												
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		
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ISSUE DATE: 09/11/19 08:23

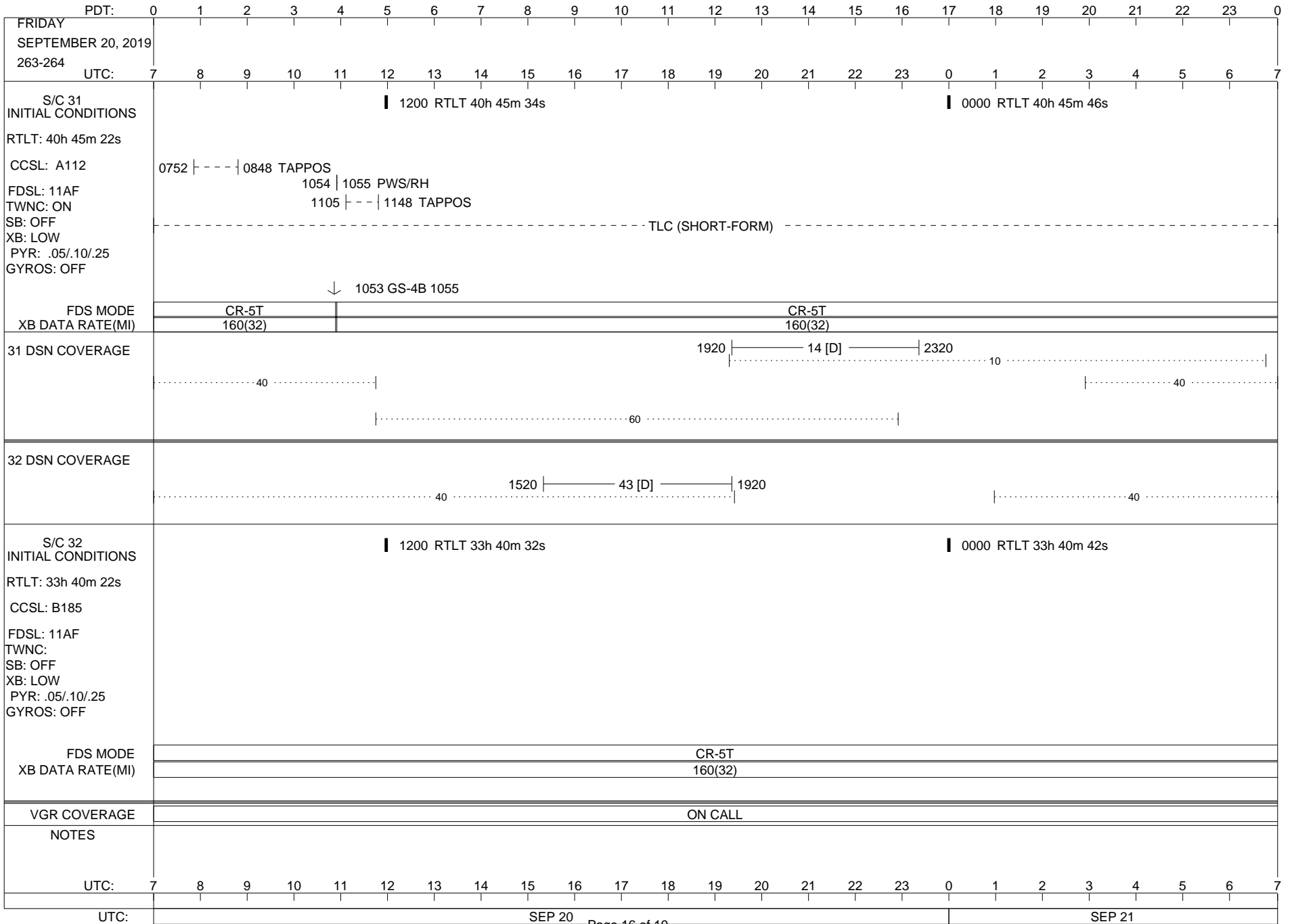
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WEDNESDAY SEPTEMBER 18, 2019 261-262																												
S/C 31 INITIAL CONDITIONS RTLT: 40h 44m 36s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 44m 48s												0000 RTLT 40h 44m 58s															
FDS MODE													CR-5T															
XB DATA RATE(MI)													160(32)															
31 DSN COVERAGE	<p>..... 40 .....   ..... 60 .....   ..... 1955  ----- 63 [D] -----  2325 ..... 40 .....</p>																											
32 DSN COVERAGE	<p>..... 40 .....   ..... 1500  ----- 43 [D] -----  1930 ..... 40 .....</p>																											
S/C 32 INITIAL CONDITIONS RTLT: 33h 39m 38s CCSL: B185 FDSL: 11AF TWNC: SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 39m 50s												0000 RTLT 33h 40m 0s															
	- - -   0749 PLSCAL												1543   PLSCAL -   1725															
	- - MAGCAL - -   0909												1543   - - - MAGCAL - - - -   1845															
	- - - PESCAL - - -   0927												1543   - - - - PESCAL - - - -   1903															
FDS MODE													CR-5T															
XB DATA RATE(MI)													160(32)															
VGR COVERAGE	ON CALL																											
NOTES																												
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UTC:	SEP 18														SEP 19													

ISSUE DATE: 09/11/19 08:23

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		1200 RTLT 40h 45m 10s														0000 RTLT 40h 45m 22s													
RTLT: 40h 44m 58s																													
CCSL: A112																													
FDSL: 11AF																													
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>0345 - 0645   14 [T]</p> <p>40   60   2140   63 [D]   2320</p>																											
32 DSN COVERAGE		<p>40   1525   43 [D]   1925   40</p>																											
S/C 32 INITIAL CONDITIONS		1200 RTLT 33h 40m 10s														0000 RTLT 33h 40m 22s													
RTLT: 33h 40m 0s																													
CCSL: B185																													
FDSL: 11AF																													
TWNC:																													
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			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													

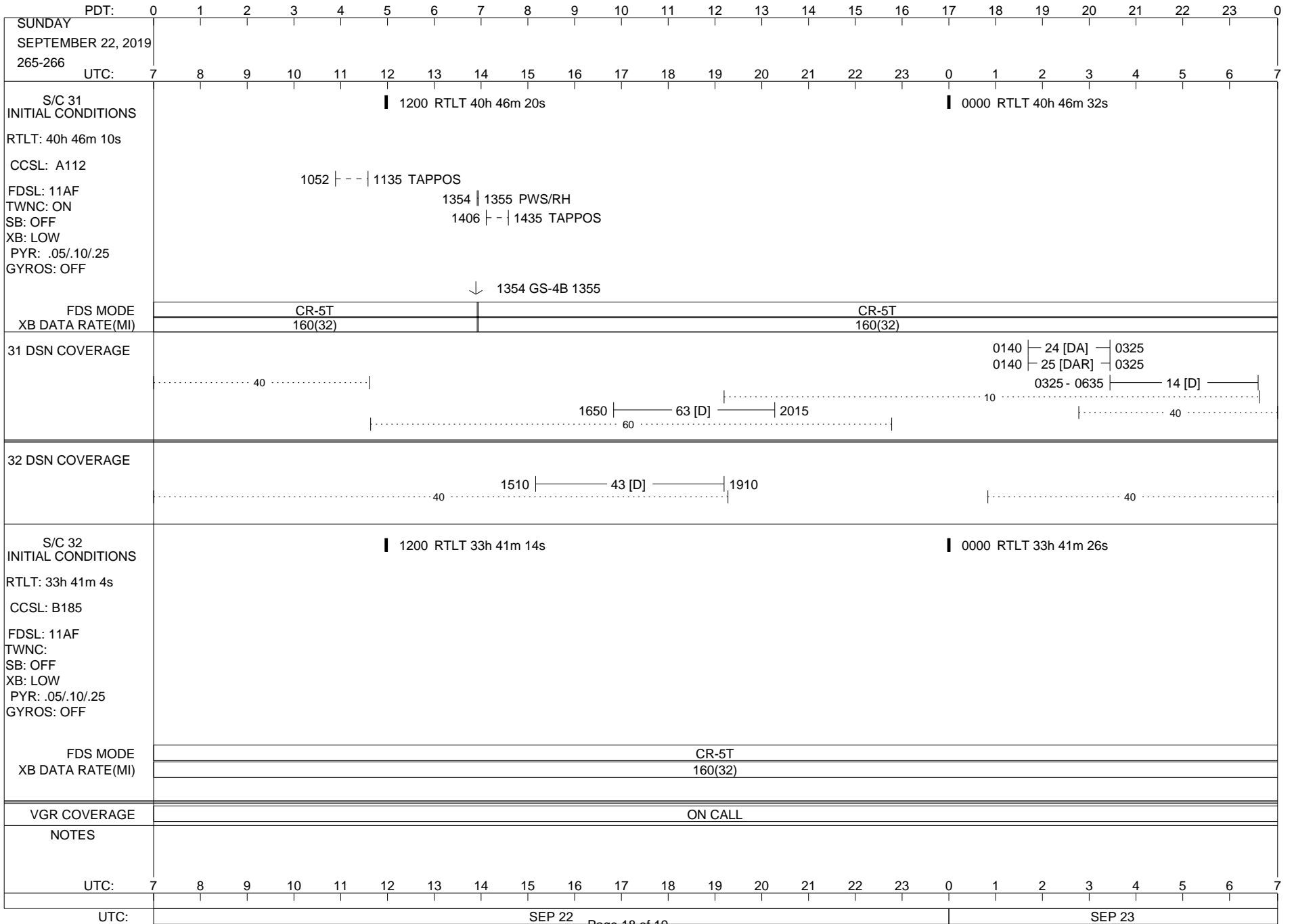


ISSUE DATE: 09/11/19 08:23



ISSUE DATE: 09/11/19 08:23

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	<div style="display: flex; justify-content: space-between;"> <span>█ 1200 RTLT 40h 45m 58s</span> <span>█ 0000 RTLT 40h 46m 10s</span> </div> <hr/> <p style="text-align: center;">----- TLC (SHORT-FORM) ----- + D/L -  2248</p> <hr/> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">FDS MODE</td> <td style="width: 50%;">CR-5T</td> </tr> <tr> <td>XB DATA RATE(MI)</td> <td>160(32)</td> </tr> </table>																							FDS MODE	CR-5T	XB DATA RATE(MI)	160(32)
FDS MODE	CR-5T																										
XB DATA RATE(MI)	160(32)																										
31 DSN COVERAGE	<div style="display: flex; justify-content: space-between;"> <span>..... 40 .....</span> <span>..... 40 .....</span> </div> <hr/> <div style="display: flex; justify-content: space-between;"> <span>..... 1750 .....</span> <span>..... 63 [D] .....</span> <span>..... 2315 .....</span> </div> <hr/>																										
32 DSN COVERAGE	<div style="display: flex; justify-content: space-between;"> <span>0805  ----- 43 [B] -----  1205</span> <span>..... 40 .....</span> </div> <hr/>																										
S/C 32 INITIAL CONDITIONS RTLT: 33h 40m 42s CCSL: B185 FDSL: 11AF TWNC: SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="display: flex; justify-content: space-between;"> <span>█ 1200 RTLT 33h 40m 54s</span> <span>█ 0000 RTLT 33h 41m 4s</span> </div> <hr/> <p style="text-align: center;">▼ 0832 DUMMY (5 MIN BRACKETED 18:14)</p> <hr/> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">FDS MODE</td> <td style="width: 50%;">CR-5T</td> </tr> <tr> <td>XB DATA RATE(MI)</td> <td>160(32)</td> </tr> </table>																							FDS MODE	CR-5T	XB DATA RATE(MI)	160(32)
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 21													SEP 22													



ISSUE DATE: 09/11/19 08:23

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 RTLT: 40h 46m 32s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 46m 44s																										
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
31 DSN COVERAGE																											
32 DSN COVERAGE																											
S/C 32 INITIAL CONDITIONS RTLT: 33h 41m 26s CCSL: B185 FDSL: 11AF TWNC: SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 41m 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 23													SEP 24													