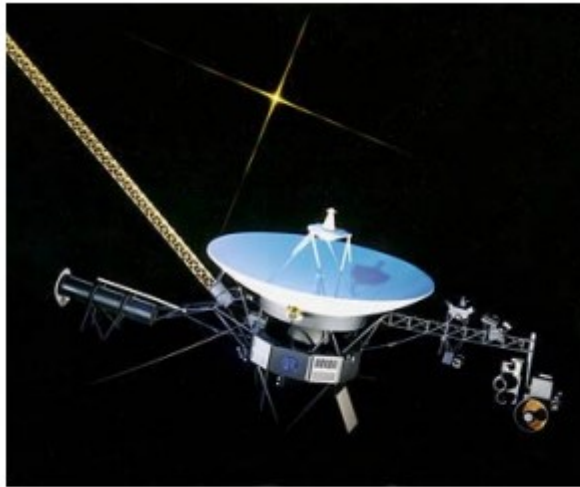


# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: September 18, 2019

For the Period: 09/19/19 to 10/07/19 (19/262 – 19/280)



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

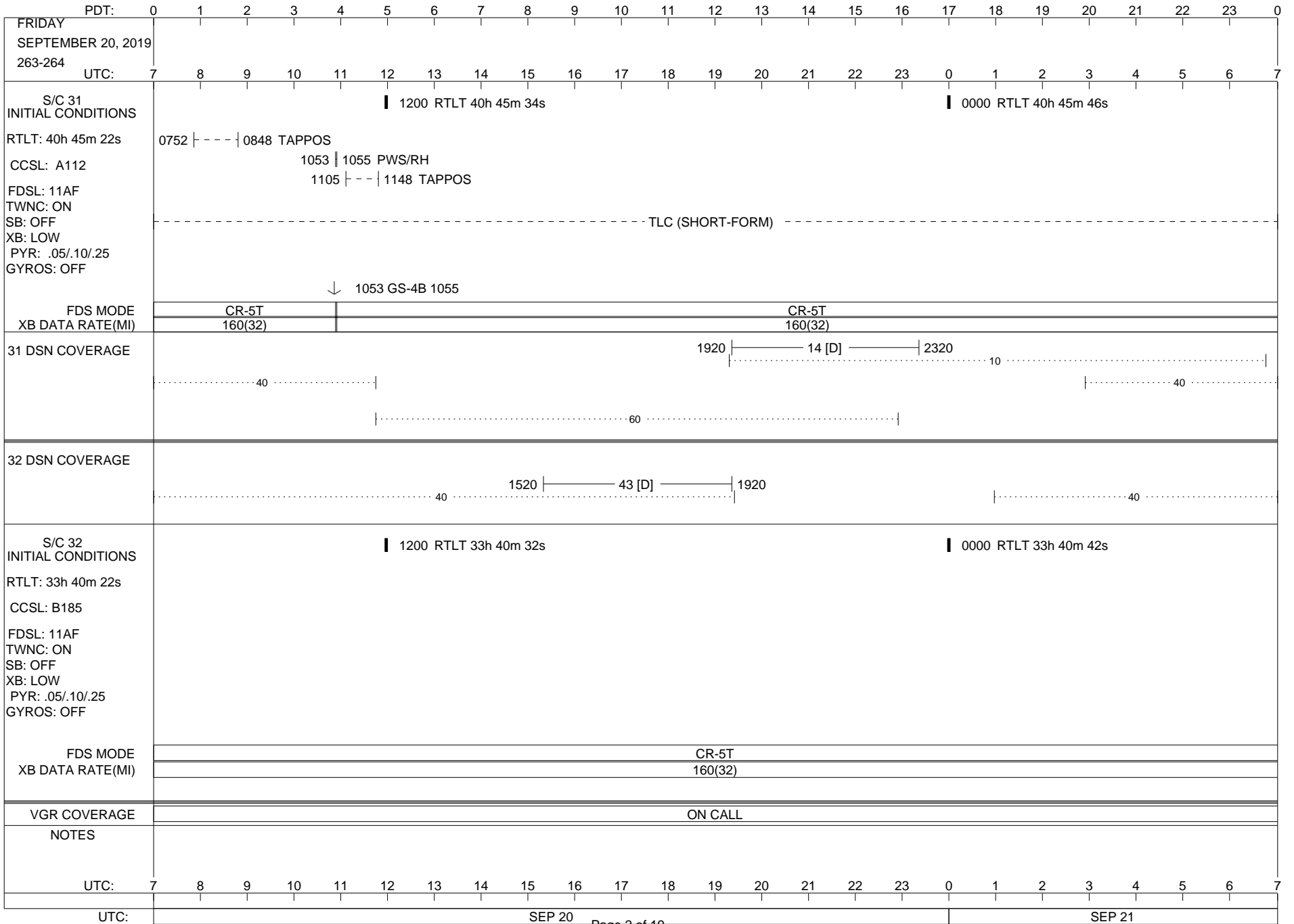
**LEGEND:**

- ∇ = 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



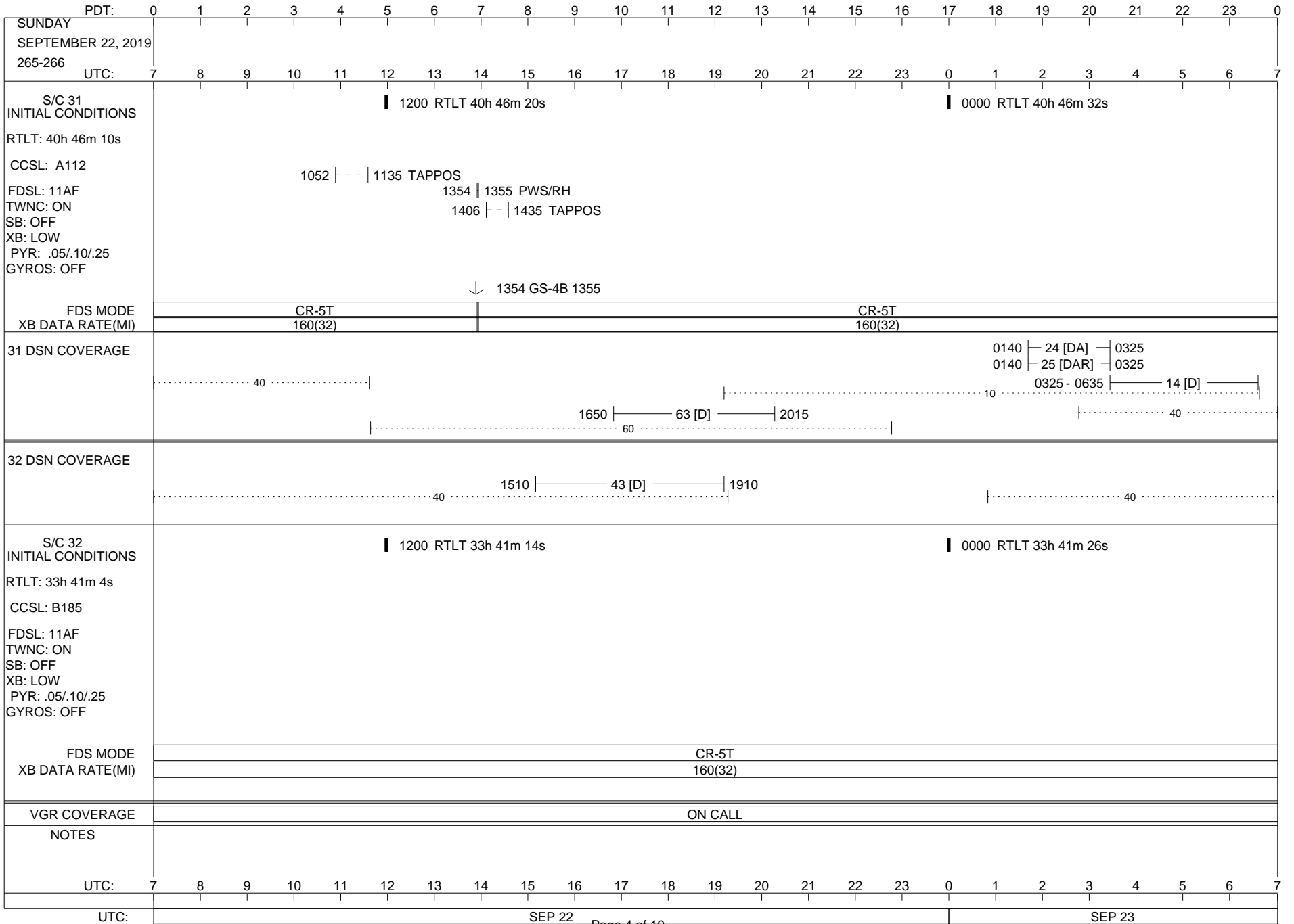
ISSUE DATE: 09/18/19 06:32



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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												1750 60 63 [D] 2315												
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												

ISSUE DATE: 09/18/19 06:32



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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 23, 2019 266-267																									
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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																			
FDS MODE XB DATA RATE(MI)																									
31 DSN COVERAGE																									
32 DSN COVERAGE																									
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																			
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:																									





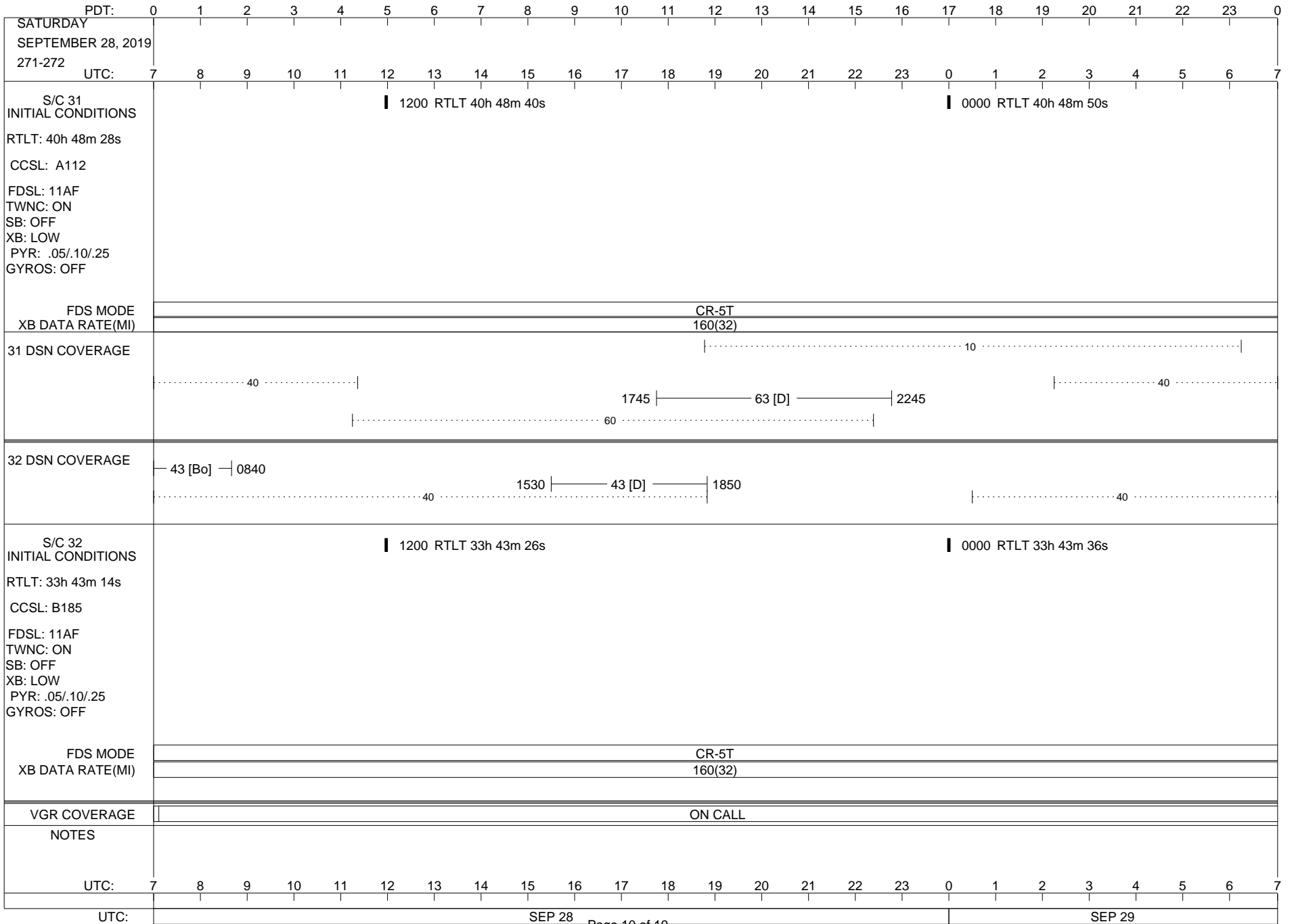


ISSUE DATE: 09/18/19 06:32

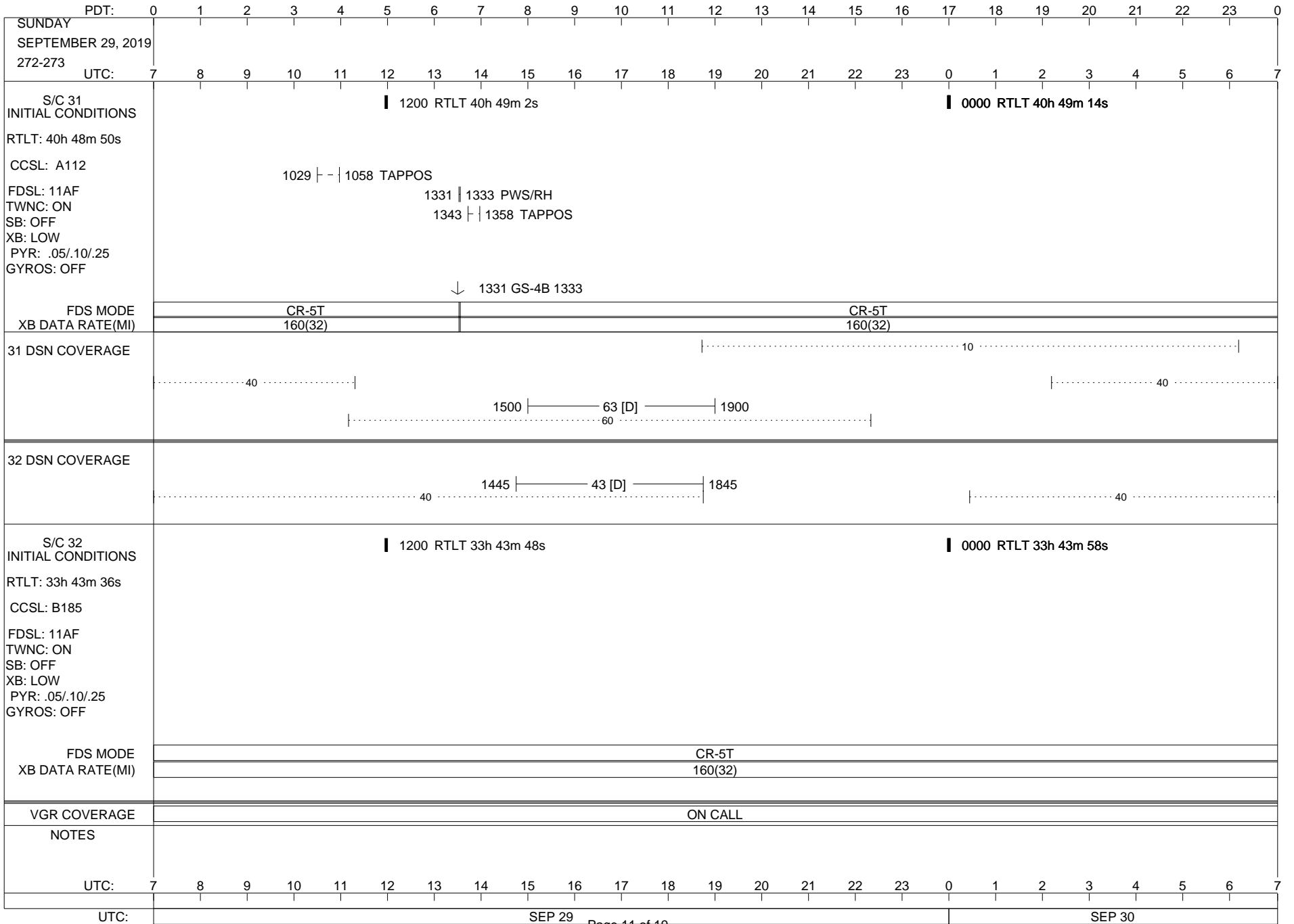
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THURSDAY SEPTEMBER 26, 2019 269-270																									
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S/C 31 INITIAL CONDITIONS RTLTL: 40h 47m 42s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200																			
FDS MODE XB DATA RATE(MI)																									
31 DSN COVERAGE																									
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS RTLTL: 33h 42m 30s 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:																									

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 27, 2019 270-271	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 48m 4s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	█ 1200 RTLT 40h 48m 16s												█ 0000 RTLT 40h 48m 28s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)											CR-5T 160(32)													
31 DSN COVERAGE	.....											.....													
32 DSN COVERAGE	.....											.....													
S/C 32 INITIAL CONDITIONS RTLT: 33h 42m 52s CCSL: B185 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	█ 1200 RTLT 33h 43m 4s												█ 0000 RTLT 33h 43m 14s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)											CR-5T 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: 09/18/19 06:32



ISSUE DATE: 09/18/19 06:32



ISSUE DATE: 09/18/19 06:32

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	█ 1200 RTLT 40h 49m 26s												█ 0000 RTLT 40h 49m 36s													
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
31 DSN COVERAGE	..... 40 .....												..... 0450   14 [D]   0605 .....													
	..... 40 .....												..... 1915   63 [D]   2240 .....													
	..... 40 .....												..... 60 .....													
32 DSN COVERAGE	..... 40 .....												..... 1425   43 [D]   1840 .....													
	..... 40 .....												..... 40 .....													
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	█ 1200 RTLT 33h 44m 10s												█ 0000 RTLT 33h 44m 20s													
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												

ISSUE DATE: 09/18/19 06:32

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 OCTOBER 1, 2019 274-275	
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 36s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 40h 49m 48s 0000 RTLT 40h 50m 0s 0355   0356 PWS/RH ↓ 0355 GS-4B 0356
FDS MODE	CR-5T
XB DATA RATE(MI)	160(32)
31 DSN COVERAGE	0310   14 [D]   0600 40 .....   ..... 10 ..... 2100   63 [D]   2235 ..... 60 .....   ..... 40 .....
32 DSN COVERAGE	1330   43 [D]   1835 ..... 40 .....   ..... 40 .....
S/C 32 INITIAL CONDITIONS RTLT: 33h 44m 20s CCSL: B185 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 33h 44m 32s 0000 RTLT 33h 44m 42s
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: OCT 01   OCT 02	

ISSUE DATE: 09/18/19 06:32

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			
<b>WEDNESDAY</b> <b>OCTOBER 2, 2019</b> <b>275-276</b>																												
<b>S/C 31</b> <b>INITIAL CONDITIONS</b> RTLT: 40h 50m 0s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	<b>1200 RTLT 40h 50m 10s</b>														<b>0000 RTLT 40h 50m 22s</b>													
<b>FDS MODE</b> <b>XB DATA RATE(MI)</b>															CR-5T 160(32)													
<b>31 DSN COVERAGE</b>																												
<b>32 DSN COVERAGE</b>																												
<b>S/C 32</b> <b>INITIAL CONDITIONS</b> RTLT: 33h 44m 42s CCSL: B185 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	<b>1200 RTLT 33h 44m 54s</b>														<b>0000 RTLT 33h 45m 4s</b>													
<b>FDS MODE</b> <b>XB DATA RATE(MI)</b>															CR-5T 160(32)													
<b>VGR COVERAGE</b>	ON CALL														VGR							ON CALL						
<b>NOTES</b>																												
<b>UTC:</b>	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			
<b>UTC:</b>	OCT 02														OCT 03													

ISSUE DATE: 09/18/19 06:32

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 OCTOBER 3, 2019 276-277																											
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 50m 22s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	█ 1200 RTLT 40h 50m 32s												█ 0000 RTLT 40h 50m 44s														
----- TLC (SHORT-FORM) -----																											
FDS MODE													CR-5T														
XB DATA RATE(MI)													160(32)														
31 DSN COVERAGE	..... 40 .....												..... 40 .....														
	..... 60 .....												..... 10 .....														
													0155  ----- 14 [D] -----  0555														
32 DSN COVERAGE	..... 40 .....												..... 40 .....														
	..... 1430  ----- 43 [D] -----  1830 .....																										
S/C 32 INITIAL CONDITIONS RTLT: 33h 45m 4s CCSL: B185 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	█ 1200 RTLT 33h 45m 16s												█ 0000 RTLT 33h 45m 28s														
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:	OCT 03													OCT 04													



ISSUE DATE: 09/18/19 06:32

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 OCTOBER 4, 2019 277-278											
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 50m 44s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLT 40h 50m 56s</p> <p>0000 RTLT 40h 51m 6s</p> <p>1955 *    1959 A113 CHKSUM</p> <p>2021 *    2028 CCSTIM FINE</p> <p>2040    2043 COARSE</p> <p>2048 *    2049 2 AHELI2 SID MRO'S</p> <p>----- TLC (SHORT-FORM) ----- + D/L -  2243</p> <p>↓ 1008 GS-4B 1010</p> <p>EL-40 1918 ↓ * ↓ 2053 CR-5T</p> <table border="1"> <tr> <td>FDS MODE</td> <td>CR-5T</td> <td>CR-5T</td> <td>EL-40</td> <td>CR-5T</td> </tr> <tr> <td>XB DATA RATE(MI)</td> <td>160(32)</td> <td>160(32)</td> <td>40(30)</td> <td>160(32)</td> </tr> </table>	FDS MODE	CR-5T	CR-5T	EL-40	CR-5T	XB DATA RATE(MI)	160(32)	160(32)	40(30)	160(32)
FDS MODE	CR-5T	CR-5T	EL-40	CR-5T							
XB DATA RATE(MI)	160(32)	160(32)	40(30)	160(32)							
31 DSN COVERAGE	<p>..... .....10..... .....</p> <p>.....40..... .....40.....</p> <p>.....1810 .....63 [D3] .....2225</p> <p>.....60..... .....</p>										
32 DSN COVERAGE	<p>.....40.....1425 .....43 [D] .....1825.....40.....</p>										
S/C 32 INITIAL CONDITIONS RTLT: 33h 45m 28s CCSL: B185 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLT 33h 45m 38s</p> <p>0000 RTLT 33h 45m 50s</p> <table border="1"> <tr> <td>FDS MODE</td> <td>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	<table border="1"> <tr> <td>ON CALL</td> <td>VGR</td> <td>ON CALL</td> </tr> </table>	ON CALL	VGR	ON CALL							
ON CALL	VGR	ON CALL									
NOTES	<p>[1] S/C 31=EL-40 @ 1918 XB=40(30)</p> <p>[2] S/C 31=CR-5T @ 2053 XB=160(32)</p> <p>[3] A113 BACKUP U/L TRACK</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: OCT 04 Page 16 of 19 OCT 05											

ISSUE DATE: 09/18/19 06:32

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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S/C 31 INITIAL CONDITIONS RTLTL: 40h 51m 6s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 40h 51m 18s												0000 RTLTL 40h 51m 28s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	-----40-----												0145  -----14 [D]-----  0545  -----40-----												
32 DSN COVERAGE	-----40-----												1420  -----43 [B]-----  1820  -----40-----												
S/C 32 INITIAL CONDITIONS RTLTL: 33h 45m 50s CCSL: B185 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 33h 46m 0s												0000 RTLTL 33h 46m 12s												
FDS MODE XB DATA RATE(MI)													CR-5T 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:	OCT 05												OCT 06												

ISSUE DATE: 09/18/19 06:32

