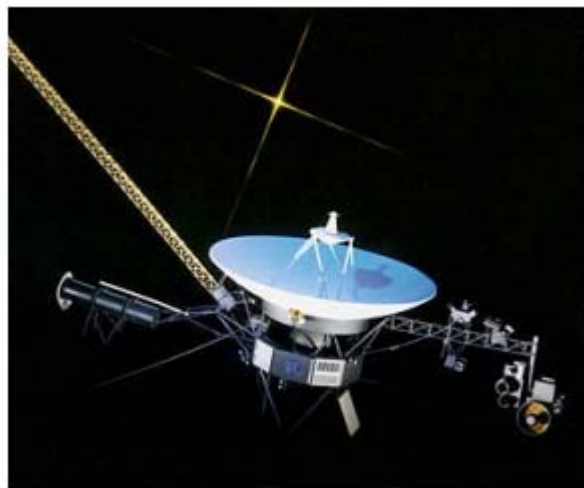


# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: September 16, 2020

For the Period: 09/17/20 to 10/05/20 (20/261– 20/279)



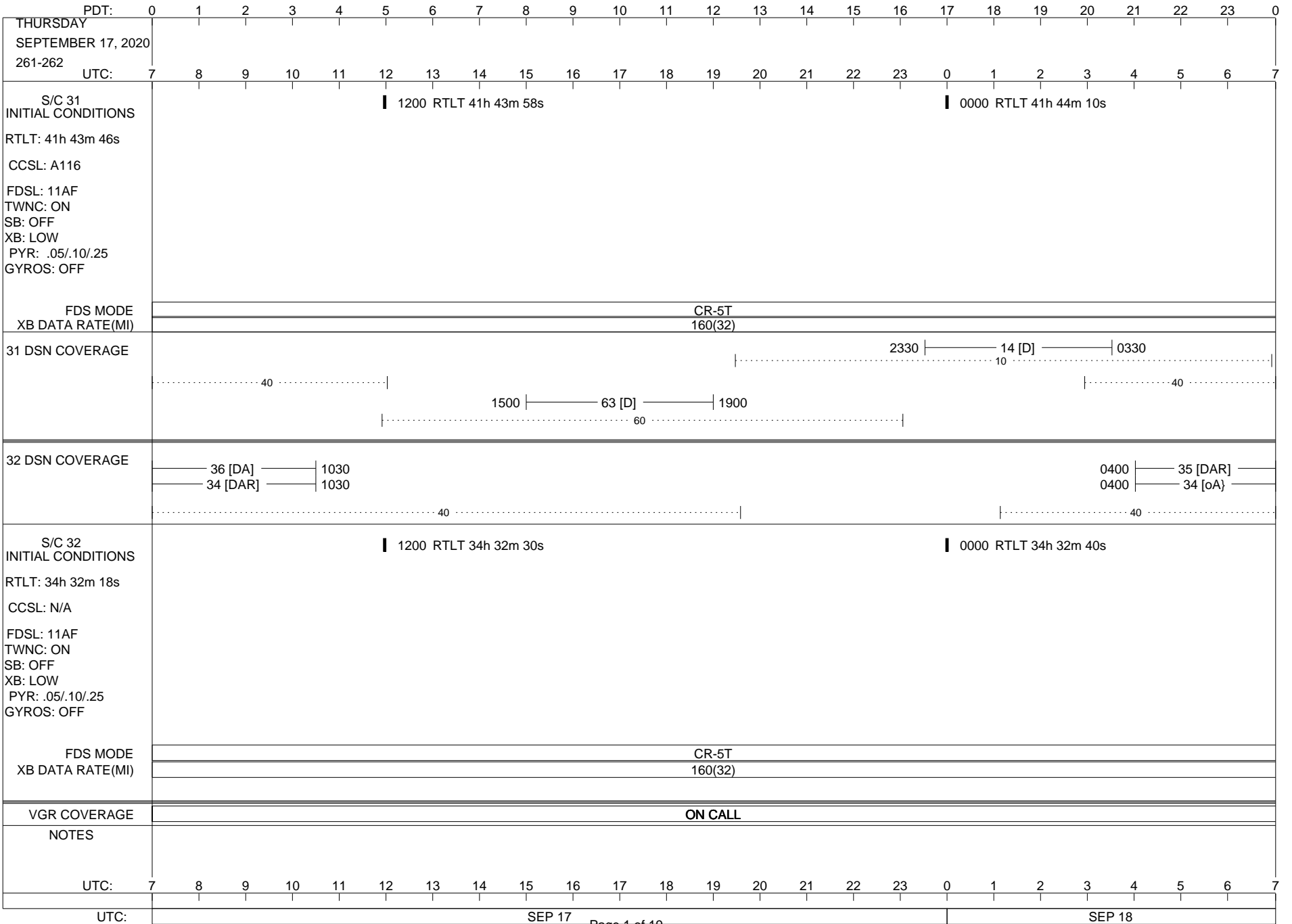
Posted at <https://voyager.jpl.nasa.gov/mission/status/>

**LEGEND:**

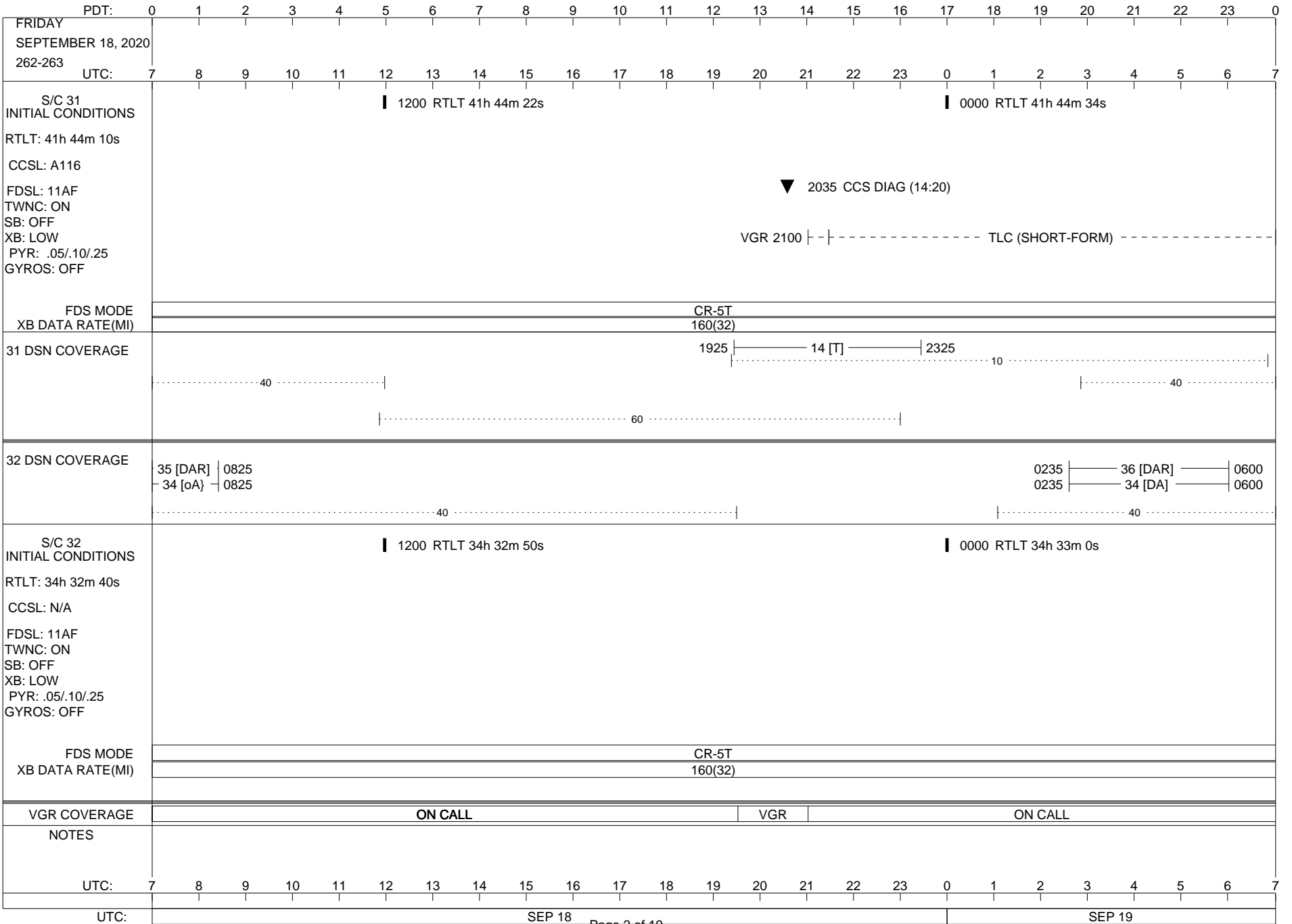
- ▽ = R/T Command (Last chance or Contingency)
- ▼ = R/T Command (Scheduled)
- \* = Result of R/T Command
- n = (where n = 1,2,3 ..) Special Note, see bottom of page
- A = Arrayed station
- B = BLF
- D = Downlink only pass
- H = High Power Transmitter
- R = Array Reference Antenna
- T = TLC Uplink
-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

02/27/19

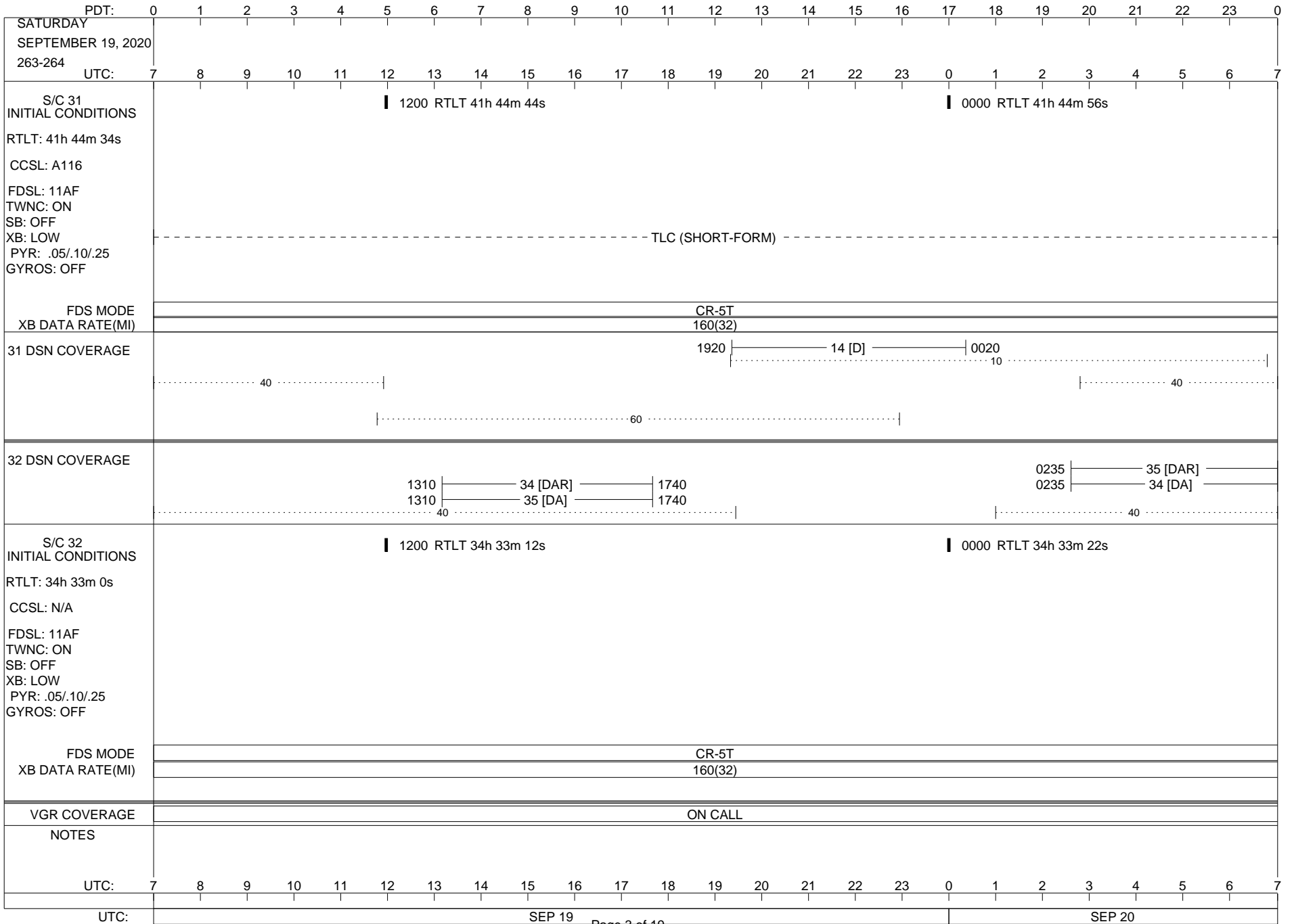
ISSUE DATE: 09/23/20 09:51



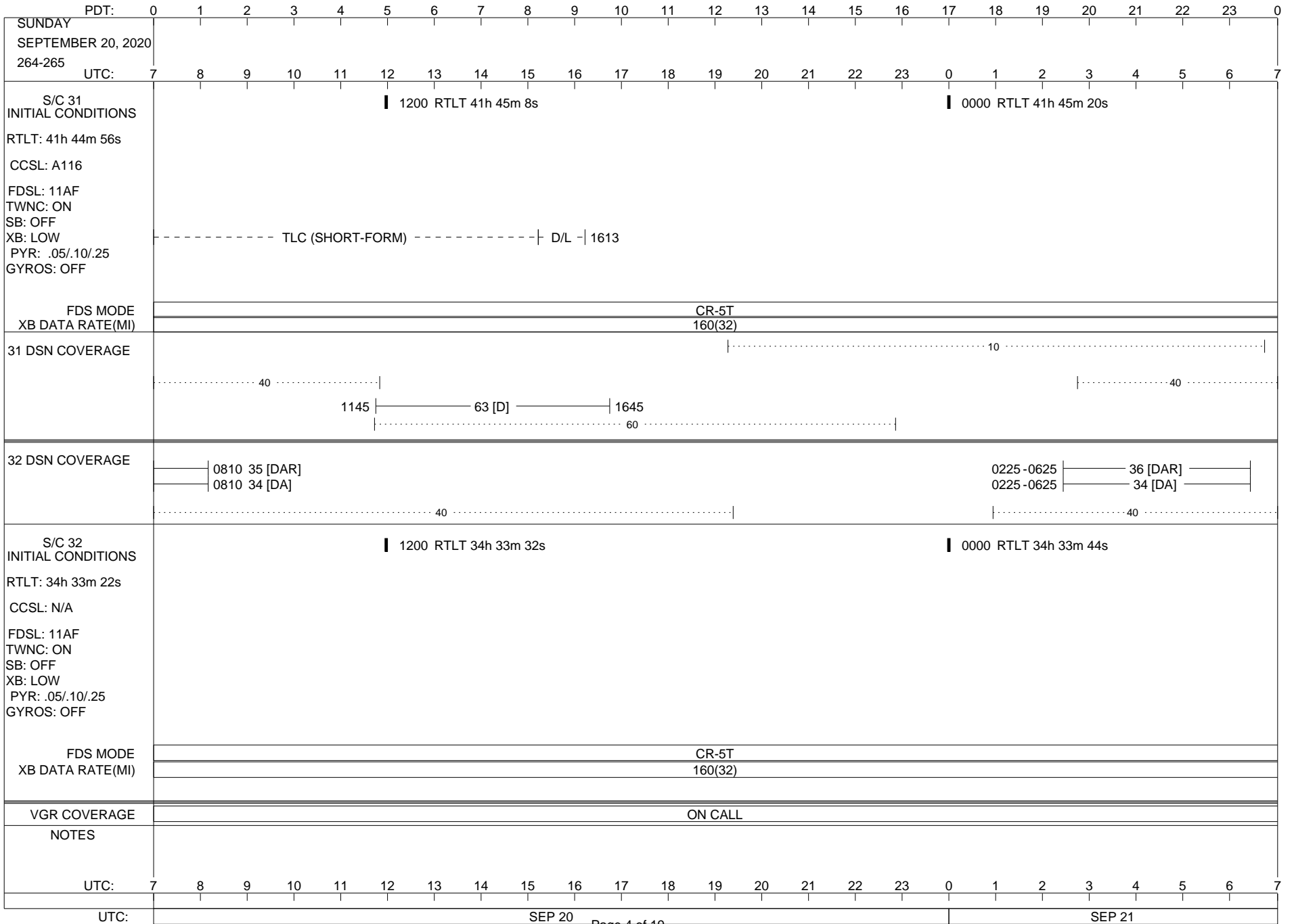
ISSUE DATE: 09/23/20 09:51



ISSUE DATE: 09/23/20 09:51



ISSUE DATE: 09/23/20 09:51



ISSUE DATE: 09/23/20 09:51

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 21, 2020 265-266																									
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: 41h 45m 20s CCSL: A116 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 41h 45m 32s												█ 0000 RTLT 41h 45m 44s												
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
31 DSN COVERAGE	.....40.....												2030   14 [D]   2135 .....10.....  0235-0635  -----14 [D]-----  .....40.....												
32 DSN COVERAGE	.....40.....												0420  -----35 [DAR]----- 0420  -----34 [DA]----- .....40.....												
S/C 32 INITIAL CONDITIONS RTLT: 34h 33m 44s CCSL: N/A FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 34h 33m 54s												█ 0000 RTLT 34h 34m 6s												
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 21												SEP 22												

ISSUE DATE: 09/23/20 09:51

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 22, 2020 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: 41h 45m 44s CCSL: A116 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF  FDS MODE XB DATA RATE(MI)	1200 RTLT 41h 45m 54s  0759   0759 PWS/RH  ↓ 0759 GS-4B 0759  CR-5T CR-5T 160(32)
31 DSN COVERAGE	1910   14 [D]   2150 ..... 10 ..... ..... 40 ..... ..... 60 .....
32 DSN COVERAGE	35 [DAR] 0940 34 [DA] 0940  ..... 40 ..... ..... 40 ..... 35 [DAR] 0630 34 [DA] 0630
S/C 32 INITIAL CONDITIONS RTLT: 34h 34m 6s CCSL: N/A FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF  FDS MODE XB DATA RATE(MI)	1200 RTLT 34h 34m 16s  0000 RTLT 34h 34m 26s  CR-5T 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: SEP 22 SEP 23	

ISSUE DATE: 09/23/20 09:51

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 23, 2020  
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  
RTLTL: 41h 46m 6s  
CCSL: A116  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLTL 41h 46m 18s

0000 RTLTL 41h 46m 30s

1416 | | 1434 SHUNT POWER TEST

FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

31 DSN COVERAGE

1905 |-----14 [D1]-----| 0200

40

10

40

1225 |-----63 [D]-----| 1445

60

32 DSN COVERAGE

35 [DAR] |-----| 1020  
34 [DA] |-----| 1020

35 [DAR] 0545 |-----|  
34 [DA] 0545 |-----|

40

40

40

S/C 32  
INITIAL CONDITIONS  
RTLTL: 34h 34m 26s  
CCSL: N/A  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLTL 34h 34m 38s

0000 RTLTL 34h 34m 48s

FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

VGR COVERAGE

ON CALL

NOTES

[1] DSS-14 3 LPO PIT

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 Page 7 of 19 SEP 24



ISSUE DATE: 09/23/20 09:51

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 24, 2020  
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  
RTLTL: 41h 46m 30s  
CCSL: A116  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLTL 41h 46m 42s

0000 RTLTL 41h 46m 52s

FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

31 DSN COVERAGE



32 DSN COVERAGE



S/C 32  
INITIAL CONDITIONS  
RTLTL: 34h 34m 48s  
CCSL: N/A  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLTL 34h 35m 0s

0000 RTLTL 34h 35m 10s

FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

VGR COVERAGE

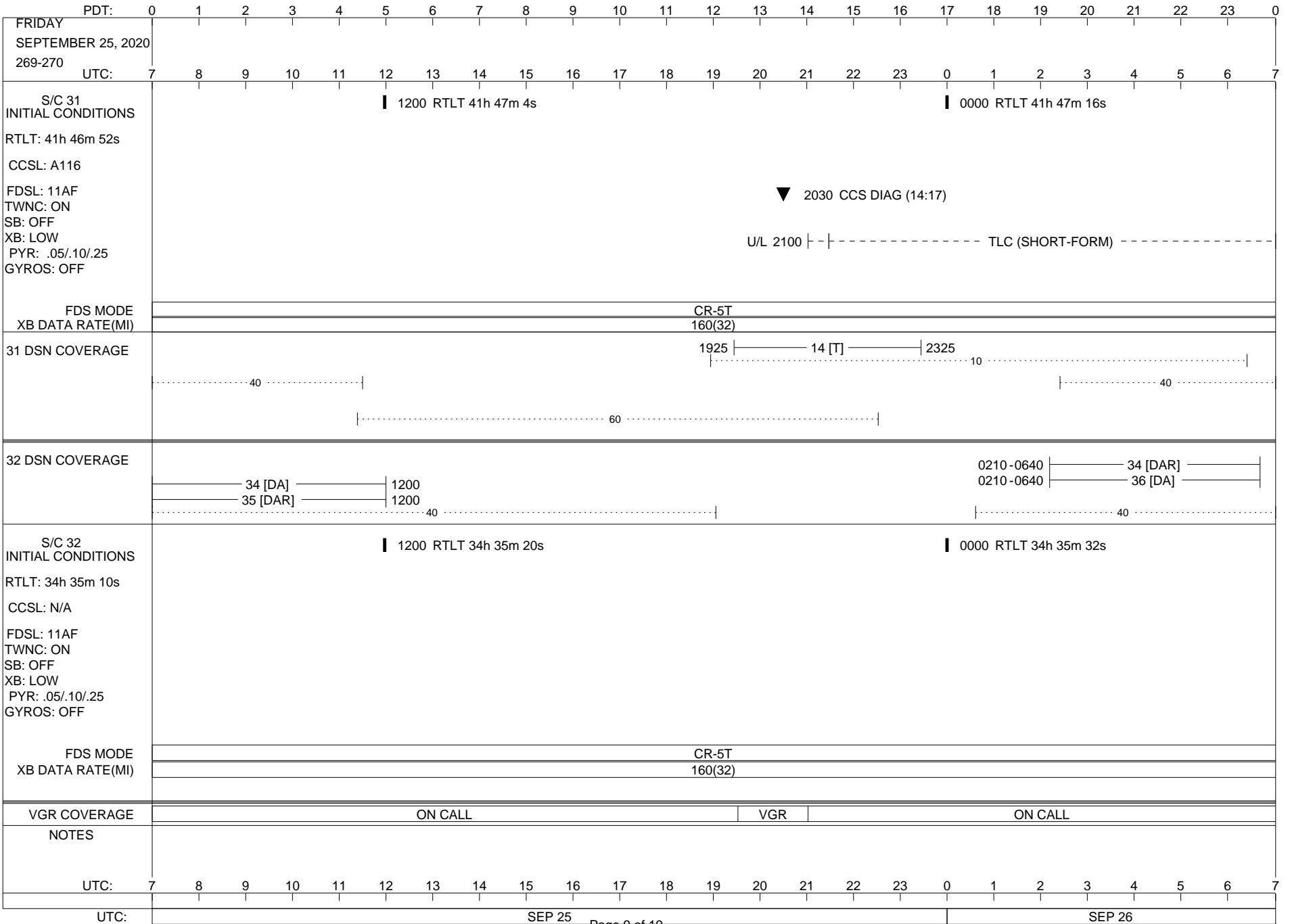
ON CALL

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: SEP 24 Page 8 of 19 SEP 25

ISSUE DATE: 09/23/20 09:51



ISSUE DATE: 09/23/20 09:51

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 26, 2020  
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  
RTLTL: 41h 47m 16s  
CCSL: A116  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/10/25  
GYROS: OFF

1200 RTLTL 41h 47m 28s

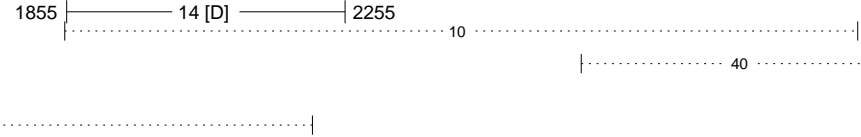
0000 RTLTL 41h 47m 40s

TLC (SHORT-FORM)

FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

31 DSN COVERAGE



32 DSN COVERAGE



S/C 32  
INITIAL CONDITIONS  
RTLTL: 34h 35m 32s  
CCSL: N/A  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/10/25  
GYROS: OFF

1200 RTLTL 34h 35m 42s

0000 RTLTL 34h 35m 54s

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: SEP 26 Page 10 of 19 SEP 27

ISSUE DATE: 09/23/20 09:51

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 27, 2020  
271-272

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: 41h 47m 40s  
CCSL: A116  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/10/25  
GYROS: OFF

1200 RTLTL 41h 47m 50s

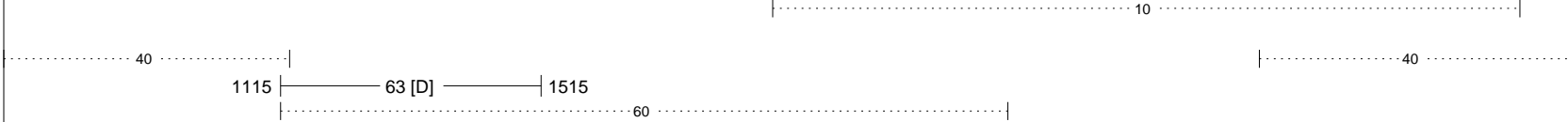
0000 RTLTL 41h 48m 2s

----- TLC (SHORT-FORM) ----- | D/L - | 1615

FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

31 DSN COVERAGE



32 DSN COVERAGE



S/C 32  
INITIAL CONDITIONS  
RTLTL: 34h 35m 54s  
CCSL: N/A  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/10/25  
GYROS: OFF

1200 RTLTL 34h 36m 4s

0000 RTLTL 34h 36m 16s

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: SEP 27 Page 11 of 19 SEP 28

ISSUE DATE: 09/23/20 09:51

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 28, 2020 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: 41h 48m 2s CCSL: A116 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 41h 48m 14s												0000 RTLT 41h 48m 24s												
FDS MODE	CR-5T																								
XB DATA RATE(MI)	160(32)																								
31 DSN COVERAGE	-----40-----												-----10-----												
	-----40-----												-----40-----												
	-----60-----												-----60-----												
	1735  -----63 [DA]-----  2245												-----40-----												
	-----1830-----  2000 56 [DAR1]																								
32 DSN COVERAGE	-----40-----												-----40-----												
	-----35 [DAR]-----  0930												-----35 [DA]-----												
	-----34 [DA]-----  0930												-----34 [DAR]-----												
S/C 32 INITIAL CONDITIONS RTLT: 34h 36m 16s CCSL: N/A FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 34h 36m 26s												0000 RTLT 34h 36m 38s												
FDS MODE	CR-5T																								
XB DATA RATE(MI)	160(32)																								
VGR COVERAGE	ON CALL																								
NOTES	[1] DSS-56 PIT																								
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 28												SEP 29												

ISSUE DATE: 09/23/20 09:51

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 29, 2020																													
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		1200 RTLT 41h 48m 36s												0000 RTLT 41h 48m 48s															
RTLT: 41h 48m 24s																													
CCSL: A116																													
FDSL: 11AF																													
TWNC: ON																													
SB: OFF																													
XB: LOW																													
PYR: .05/.10/.25																													
GYROS: OFF																													
0736-0737 PWS/RH																													
▼ 1857 EL-40 (12:46)																													
▼ 1919 CCSL A117 (13:08)																													
▼ 2001 CCSTIM F/C (13:50)																													
▼ 2029 AHEL12 CCS SID MRO, CR5T (14:18)																													
▼ 2130 CCS DIAG (15:19)																													
U/L 2155   -   - - - - - - - - - - TLC (SHORT-FORM) - - - - -																													
↓ 0736 GS-4B 0737																													
FDS MODE														CR-5T															
XB DATA RATE(MI)														160(32)															
31 DSN COVERAGE		<p>..... 40 .....   ..... 10 ..... 0505   14 [D]   0605</p> <p>..... 40 .....   ..... 60 ..... 1830   ..... 63 [T] ..... 2240   ..... 40 .....</p>																											
32 DSN COVERAGE		<p>  0725 35 [DA]</p> <p>  0725 34 [DAR]</p> <p>..... 40 .....   ..... 40 .....</p> <p>0240   ..... 36 [DAR] .....</p> <p>0240   ..... 35 [DA] .....</p>																											
S/C 32 INITIAL CONDITIONS		1200 RTLT 34h 36m 48s												0000 RTLT 34h 37m 0s															
RTLT: 34h 36m 38s																													
CCSL: N/A																													
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						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: 09/23/20 09:51

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 30, 2020  
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  
RTLTL: 41h 48m 48s  
CCSL: A116  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLTL 41h 48m 58s

0000 RTLTL 41h 49m 10s

TLC (SHORT-FORM)

FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

31 DSN COVERAGE



32 DSN COVERAGE



S/C 32  
INITIAL CONDITIONS  
RTLTL: 34h 37m 0s  
CCSL: N/A  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLTL 34h 37m 10s

0000 RTLTL 34h 37m 22s

FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

VGR COVERAGE

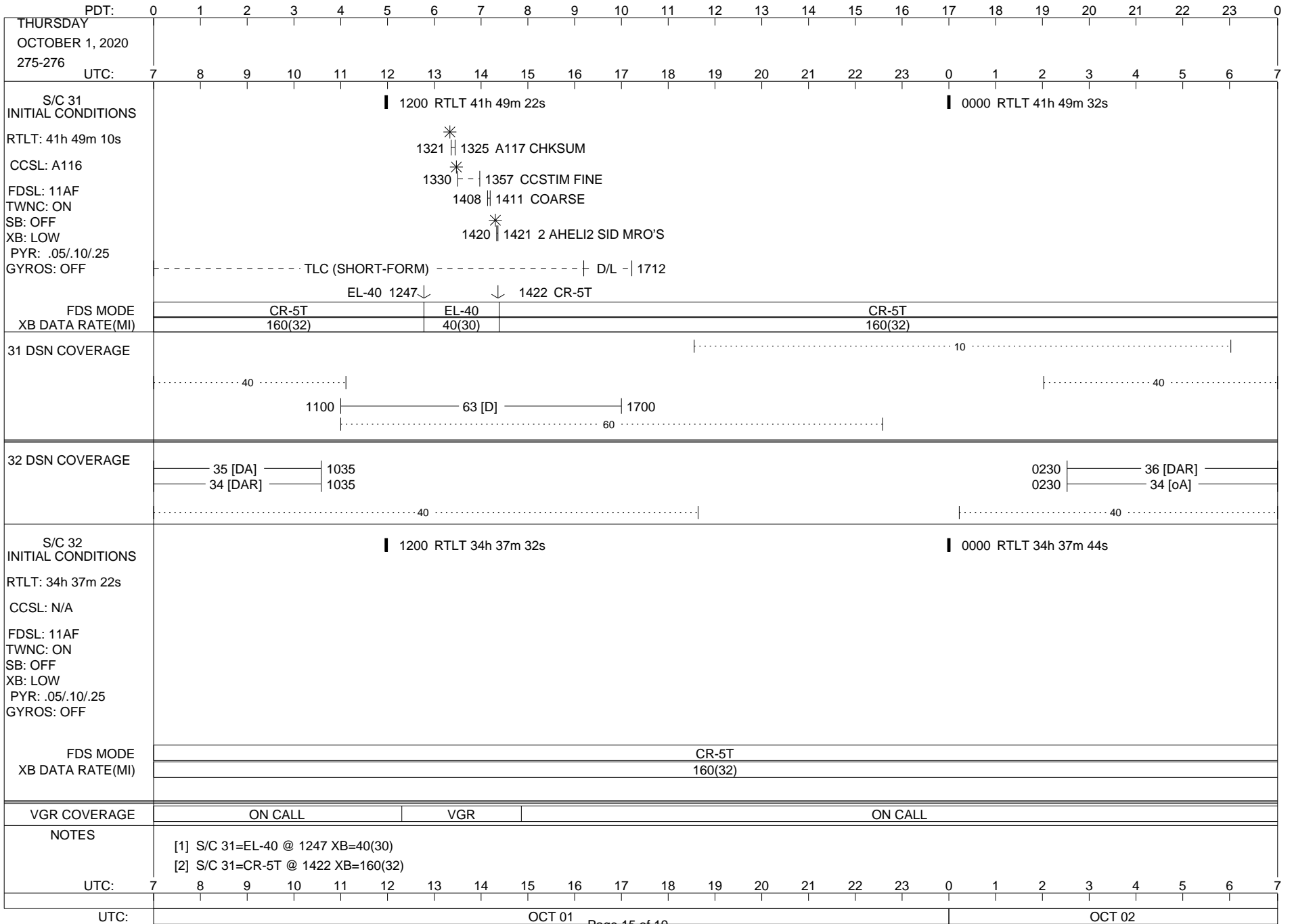
ON CALL

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

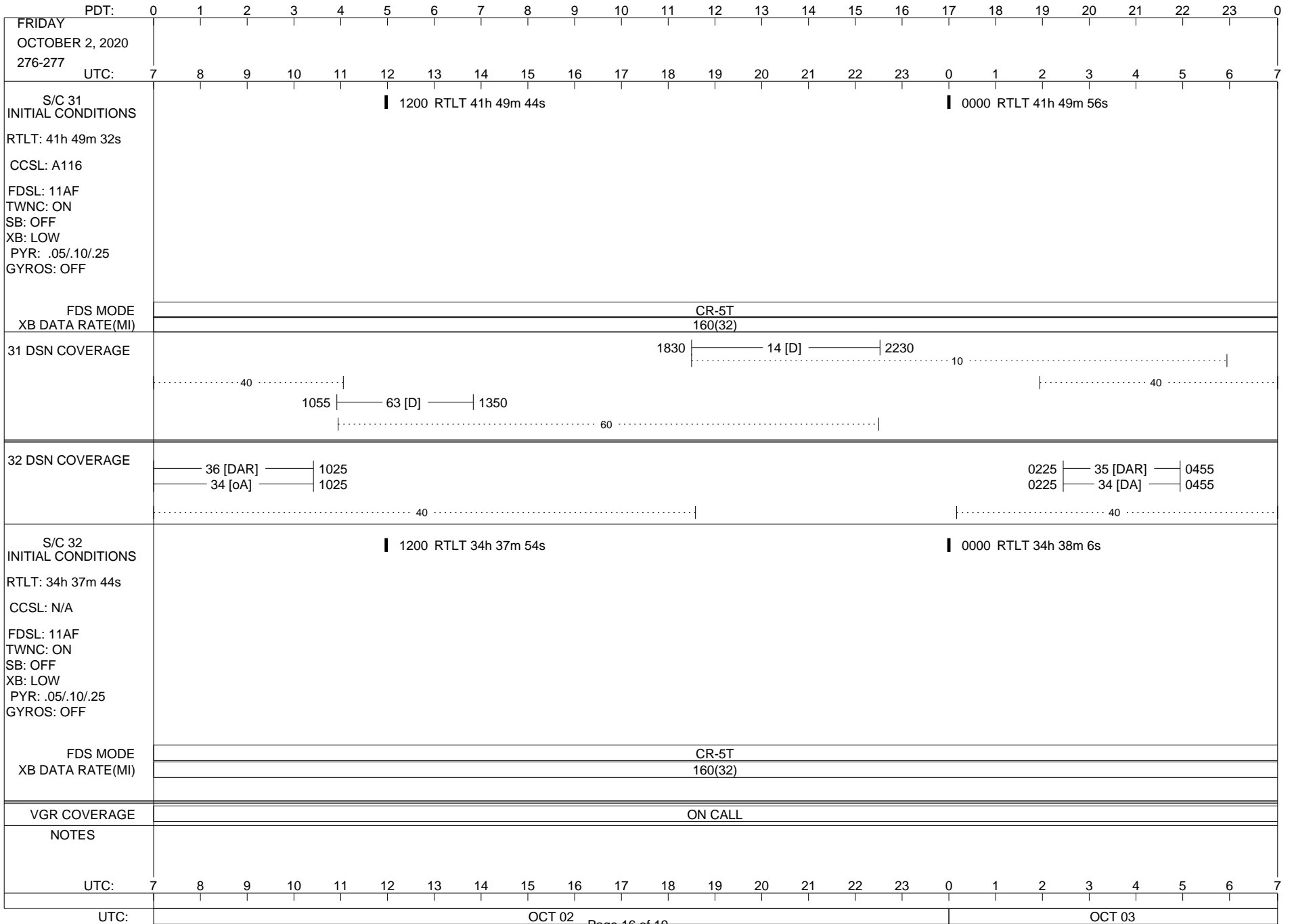
UTC: SEP 30 Page 14 of 19 OCT 01

ISSUE DATE: 09/23/20 09:51





ISSUE DATE: 09/23/20 09:51



ISSUE DATE: 09/23/20 09:51

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  
OCTOBER 3, 2020  
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  
RTLTL: 41h 49m 56s  
CCSL: A116  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

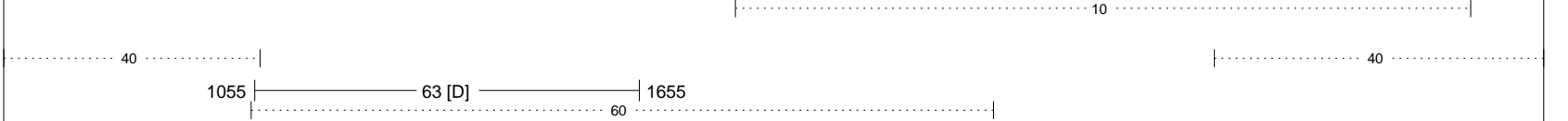
1200 RTLTL 41h 50m 6s

0000 RTLTL 41h 50m 18s

FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

31 DSN COVERAGE



32 DSN COVERAGE



S/C 32  
INITIAL CONDITIONS  
RTLTL: 34h 38m 6s  
CCSL: N/A  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLTL 34h 38m 16s

0000 RTLTL 34h 38m 28s

FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

VGR COVERAGE

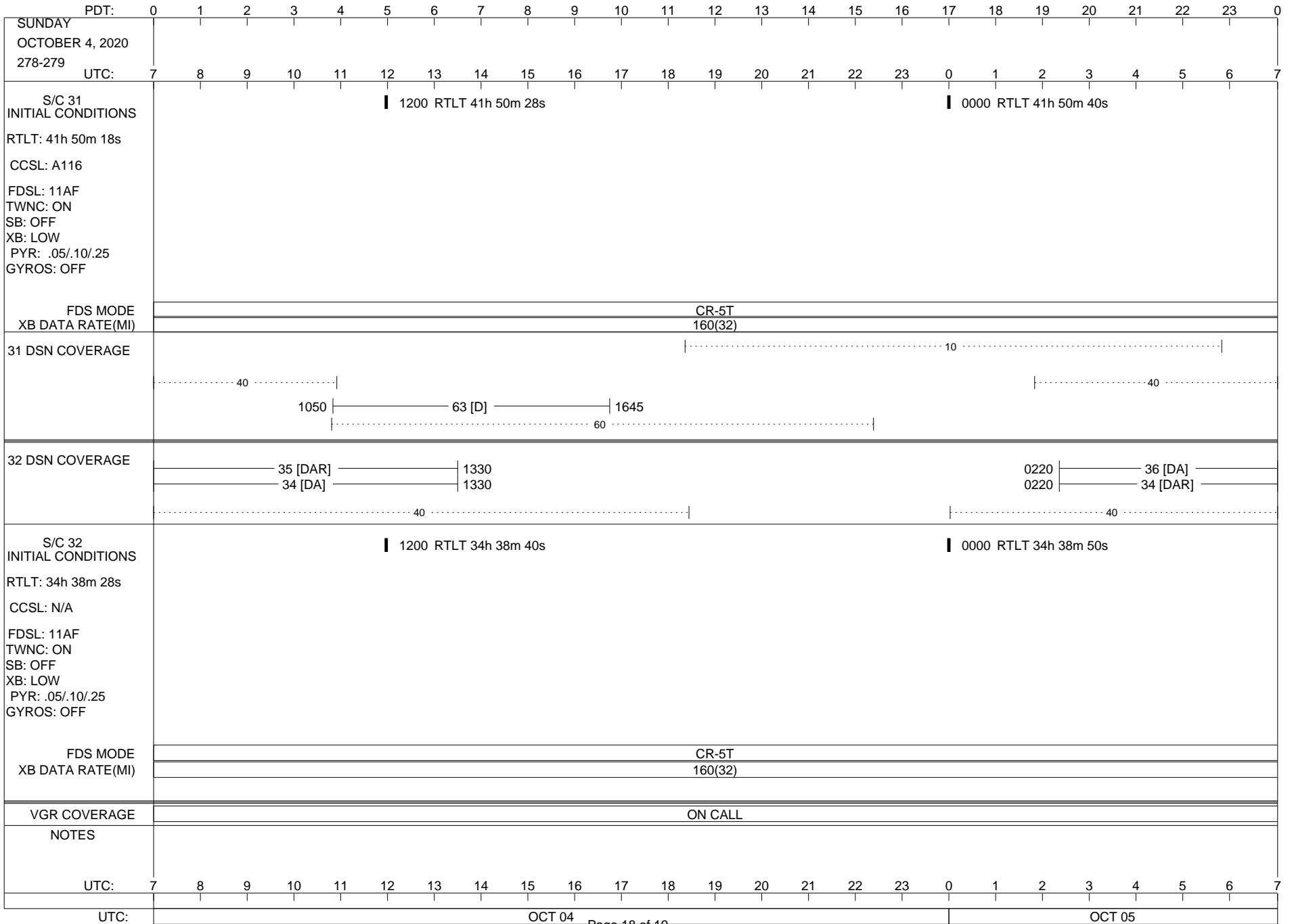
ON CALL

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 03 Page 17 of 19 OCT 04

ISSUE DATE: 09/23/20 09:51



ISSUE DATE: 09/23/20 09:51

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 OCTOBER 5, 2020 279-280	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: 41h 50m 40s CCSL: A116 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 41h 50m 52s																										
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																										
31 DSN COVERAGE	1820  -----  14 [1]  -----  2220 .....40 ..... 1045   63 [D]   1145  -----  60 .....																										
32 DSN COVERAGE	0805 36 [DA]   0805 34 [DAR] .....40 .....																										
S/C 32 INITIAL CONDITIONS RTLT: 34h 38m 50s CCSL: N/A FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 34h 39m 2s																										
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																										
VGR COVERAGE	ON CALL																										
NOTES	[1] A117 BACKUP U/L TRACK																										
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												