

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: September 19, 2024

For the Period: 09/19/24 to 10/07/24 (24/263 – 24/281)



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

ISSUE DATE: 09/17/24 09:41

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, 2024 263-264	
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: 45h 41m 26s CCSL: A132 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .07/.40/.95 GYROS: OFF	1200 RTLT 45h 41m 38s 0000 RTLT 45h 41m 50s ----- TLC (SHORT-FORM) ----- FDS MODE CR-5T XB DATA RATE(MI) 160(32)
31 DSN COVERAGE	..... .....10..... .....  ----- 0750 43 [HT]..... .....0600   43 [D].....  .....40..... .....60..... .....40.....
32 DSN COVERAGE	0905  -----  43 [H1]  -----  1305 .....40..... .....0055  -----  43 [D]  -----  0510 .....40..... .....40.....
S/C 32 INITIAL CONDITIONS RTLT: 38h 3m 58s CCSL: B205 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .07/.30/.95 GYROS: OFF	1200 RTLT 38h 4m 8s 0000 RTLT 38h 4m 20s ▼ 1110 PITCH 0.10 DEG DEADBAND (01:15)
FDS MODE CR-5T XB DATA RATE(MI) 160(32)	
VGR COVERAGE	ON CALL   VGR   ON CALL
NOTES	[1] DSS-43 HPTXR DRV OFF <= 18:10
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: 09/17/24 09:41

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 20, 2024 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: 45h 41m 50s CCSL: A132 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .07/.40/.95 GYROS: OFF	1200 RTLT 45h 42m 0s 0000 RTLT 45h 42m 12s ----- TLC (SHORT-FORM) -----   D/L -  0410
FDS MODE	CR-5T
XB DATA RATE(MI)	160(32)
31 DSN COVERAGE	0045  ----- 14 [D] -----  0530  ----- 10 -----  43 [D]  ----- 1015 -----   ----- 40 -----   ----- 60 -----
32 DSN COVERAGE	0050  ----- 43 [o] -----  0450  ----- 40 -----   ----- 40 -----
S/C 32 INITIAL CONDITIONS RTLT: 38h 4m 20s CCSL: B205 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .07/.30/.95 GYROS: OFF	1200 RTLT 38h 4m 30s 0000 RTLT 38h 4m 40s ↓ 0145 PITCH 0.07 DEG DEADBAND
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 20   Page 23 of 19   SEP 21	

ISSUE DATE: 09/17/24 09:41

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, 2024  
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  
RTLTL: 45h 42m 12s  
CCSL: A132  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .07/.40/.95  
GYROS: OFF

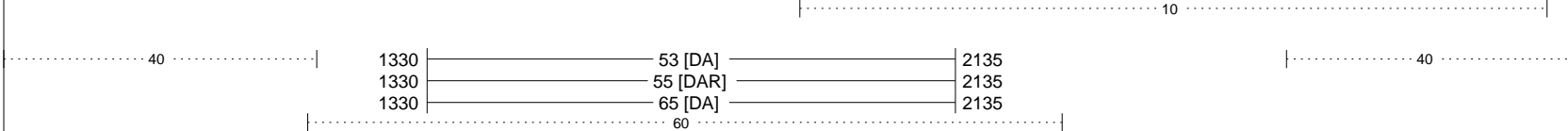
1200 RTLTL 45h 42m 24s

0000 RTLTL 45h 42m 36s

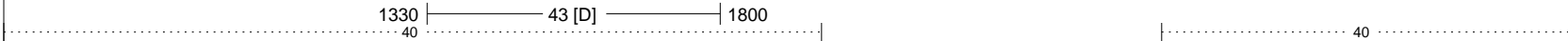
FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

31 DSN COVERAGE



32 DSN COVERAGE



S/C 32  
INITIAL CONDITIONS  
RTLTL: 38h 4m 40s  
CCSL: B205  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .07/.30/.95  
GYROS: OFF

1200 RTLTL 38h 4m 50s

0000 RTLTL 38h 5m 2s

FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

VGR COVERAGE

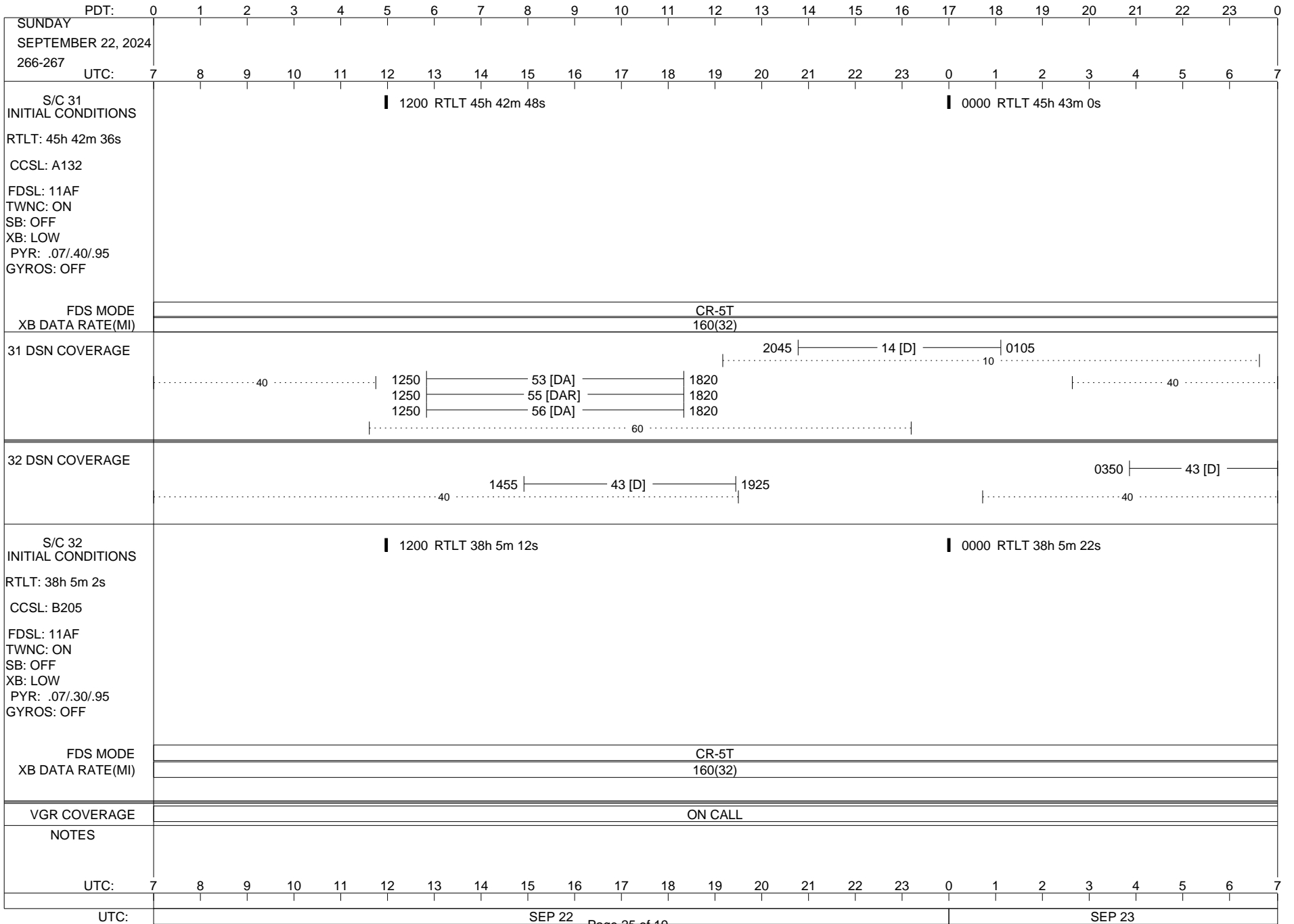
ON CALL

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 21 Page 24 of 19 SEP 22

ISSUE DATE: 09/17/24 09:41



ISSUE DATE: 09/17/24 09:41

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, 2024 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: 45h 43m 0s CCSL: A132 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .07/.40/.95 GYROS: OFF	1200 RTLTL 45h 43m 10s												0000 RTLTL 45h 43m 22s													
FDS MODE	CR-5T																									
XB DATA RATE(MI)	160(32)																									
31 DSN COVERAGE	..... 40 .....												..... 10 ..... 0230-0630  ----- 14 [D] -----  ..... 1750  ----- 53 [DA] -----  2150 ..... 40 ..... ..... 1750  ----- 55 [DAR] -----  2150 ..... ..... 1750  ----- 56 [DA] -----  2150 ..... ..... 60 .....													
32 DSN COVERAGE	43 [D]   0830 .....												..... 40 ..... 0250  ----- 43 [D] -----  ..... 40 .....													
S/C 32 INITIAL CONDITIONS RTLTL: 38h 5m 22s CCSL: B205 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .07/.30/.95 GYROS: OFF	1200 RTLTL 38h 5m 34s												0000 RTLTL 38h 5m 44s													
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: 09/17/24 09:41

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 24, 2024  
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  
RTLT: 45h 43m 22s  
CCSL: A132  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .07/.40/.95  
GYROS: OFF

1200 RTLT 45h 43m 34s

0000 RTLT 45h 43m 46s

PWS/RH 0358 0359

EL-40 (03:43) 0559 ▼

CCSL A133 (04:05) 0621 ▼

ECR 223094 (04:25) 0641 ▼

2 CCS SID MRO'S (04:33) 0649 ▼

↓ 0358 GS-4B 0359

FDS MODE  
XB DATA RATE(MI)

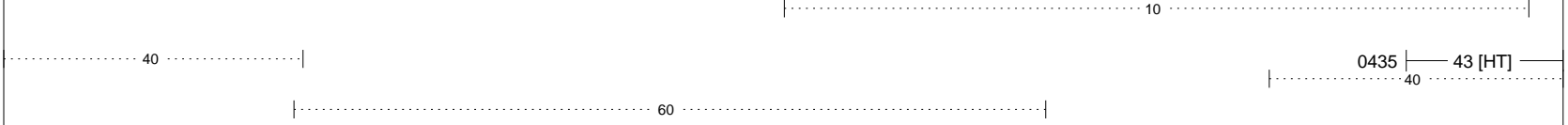
CR-5T

CR-5T

160(32)

160(32)

31 DSN COVERAGE



32 DSN COVERAGE



S/C 32  
INITIAL CONDITIONS  
RTLT: 38h 5m 44s  
CCSL: B205  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .07/.30/.95  
GYROS: OFF

1200 RTLT 38h 5m 54s

0000 RTLT 38h 6m 6s

FDS MODE  
XB DATA RATE(MI)

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 24 Page 27 of 19 SEP 25





ISSUE DATE: 09/17/24 09:41

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 26, 2024																													
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: 45h 44m 8s CCSL: A132 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .07/.40/.95 GYROS: OFF	1200 RTLT 45h 44m 20s																							0000 RTLT 45h 44m 32s A133 CHKSUM 0414 * 0421 IMPELEMENT ECR 223094 0426 * 0428 2 CCS SID MRO'S 0435 * 0436 2 CCS SID MRO'S - REDUNDANT 0535 * 0536 CCSTIM FINE 0547 * 0554 COARSE 0605 * 0608 TIC MRO'S 0617-0618 *					
	----- TLC (SHORT-FORM) -----																												
	FDS MODE XB DATA RATE(MI)	CR-5T 160(32)	EL-40 0344 *	CR-5T 0619 *	EL-40 40(30)																								
31 DSN COVERAGE	2130   14 [D]   2245 ..... 40 .....   1245   ..... 53 [DA] ..... 2140 ..... 0300   ..... 43 [D] .....   1245   ..... 55 [DAR] ..... 2140 .....   ..... 40 .....   1245   ..... 65 [DA] ..... 2140 ..... ..... 60 .....																												
32 DSN COVERAGE	1225   ..... 43 [HB] ..... 1640 ..... ..... 40 .....   ..... 40 .....																												
S/C 32 INITIAL CONDITIONS RTLT: 38h 6m 28s CCSL: B205 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .07/.30/.95 GYROS: OFF	1200 RTLT 38h 6m 38s																							0000 RTLT 38h 6m 48s					
	▼ 1252 DUMMY (5 MIN BRACKETED 02:59)																												
	FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																											
VGR COVERAGE	ON CALL	VGR	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 26														SEP 27													

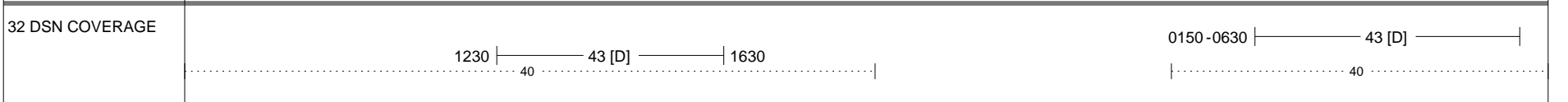
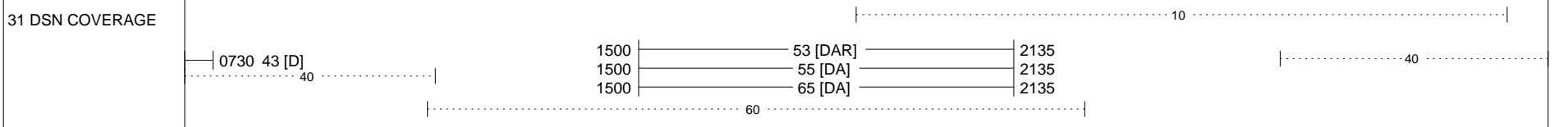
ISSUE DATE: 09/17/24 09:41

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, 2024  
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  
RTLT: 45h 44m 32s  
CCSL: A132  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .07/.40/.95  
GYROS: OFF  
TLC (SHORT-FORM)  
D/L -| 0807  
1200 RTLT 45h 44m 44s  
0000 RTLT 45h 44m 54s

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



S/C 32  
INITIAL CONDITIONS  
RTLT: 38h 6m 48s  
CCSL: B205  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .07/.30/.95  
GYROS: OFF  
1200 RTLT 38h 7m 0s  
0000 RTLT 38h 7m 10s

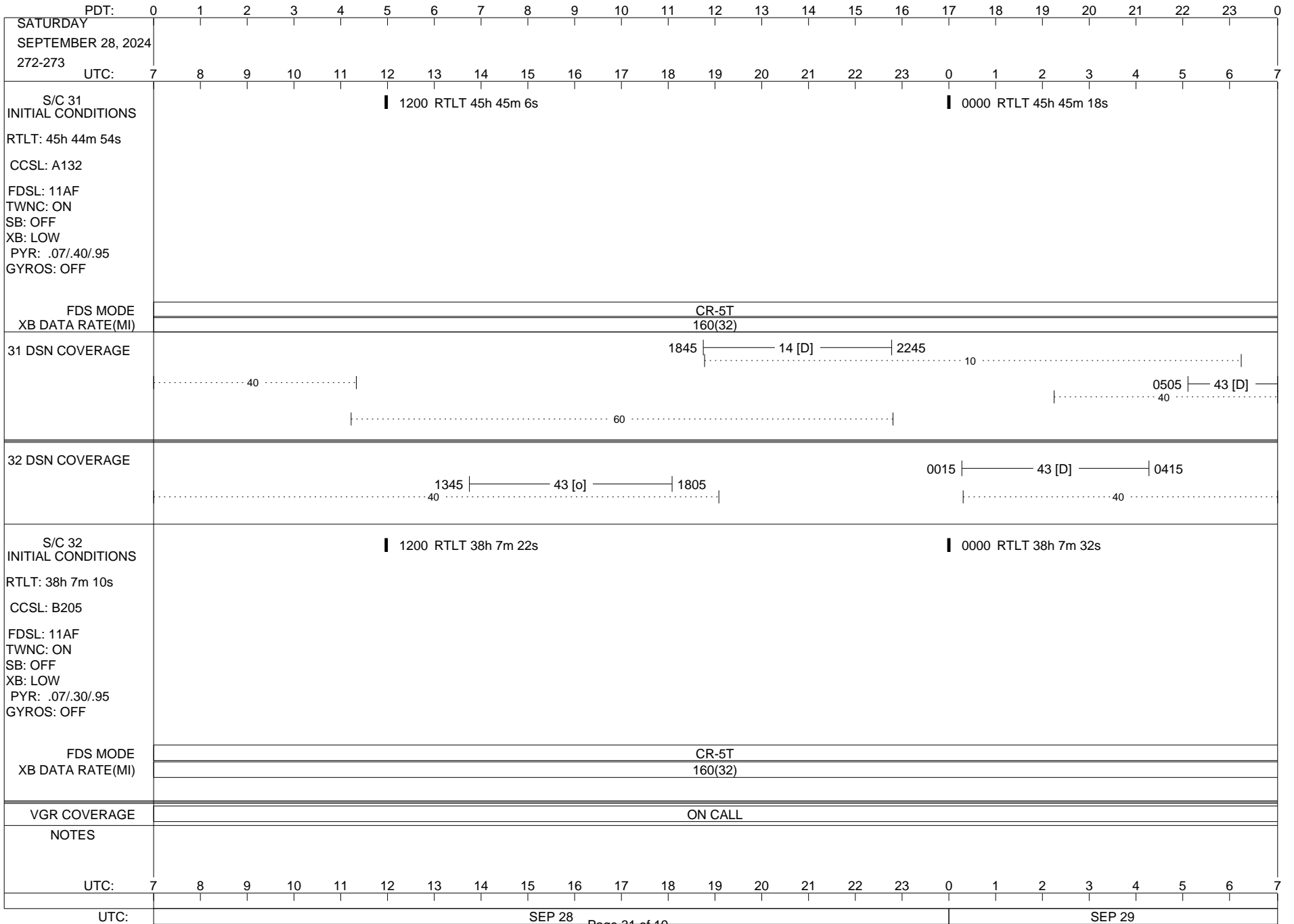
FDS MODE CR-5T  
XB DATA RATE(MI) 160(32)

VGR COVERAGE ON CALL

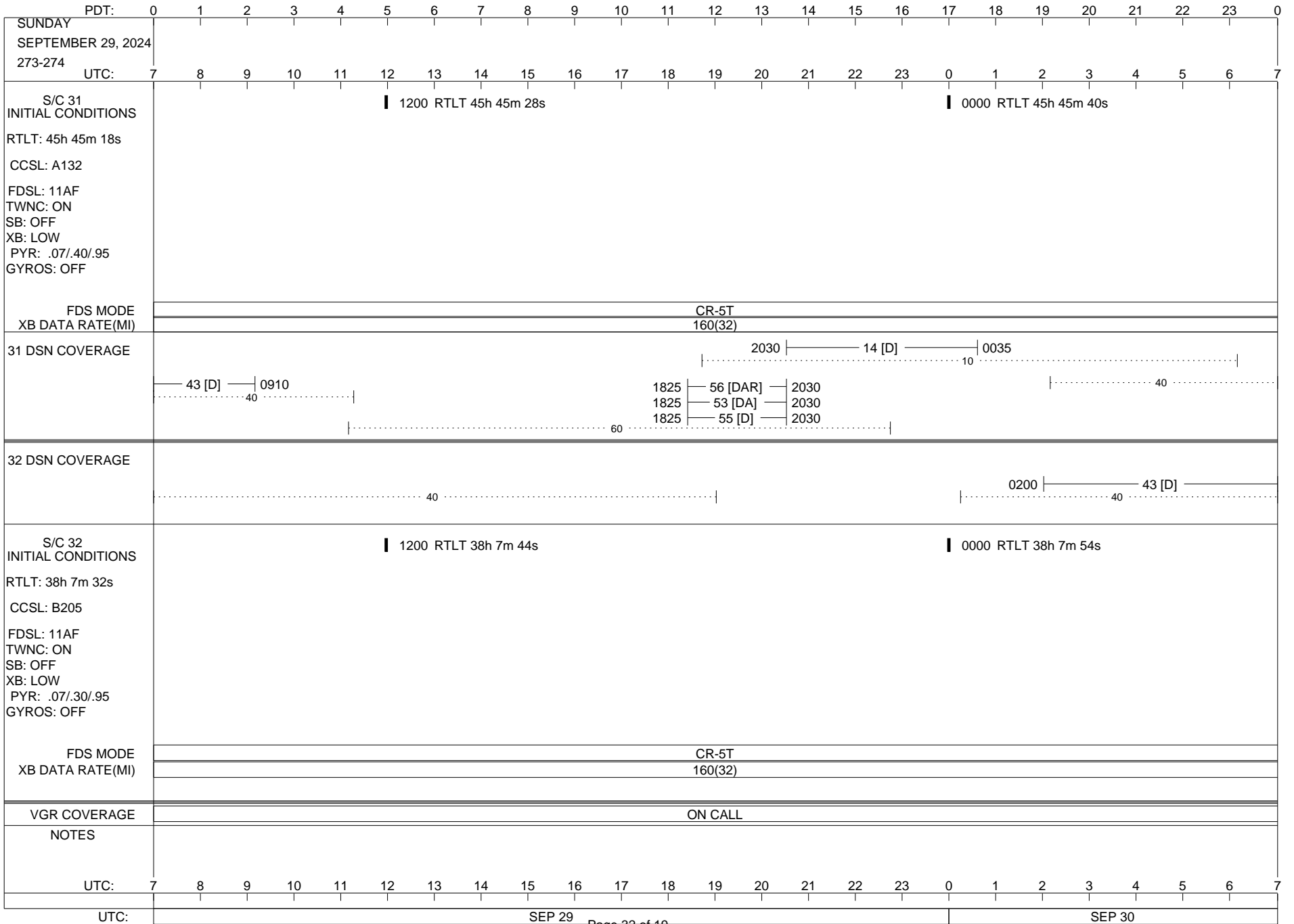
NOTES

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

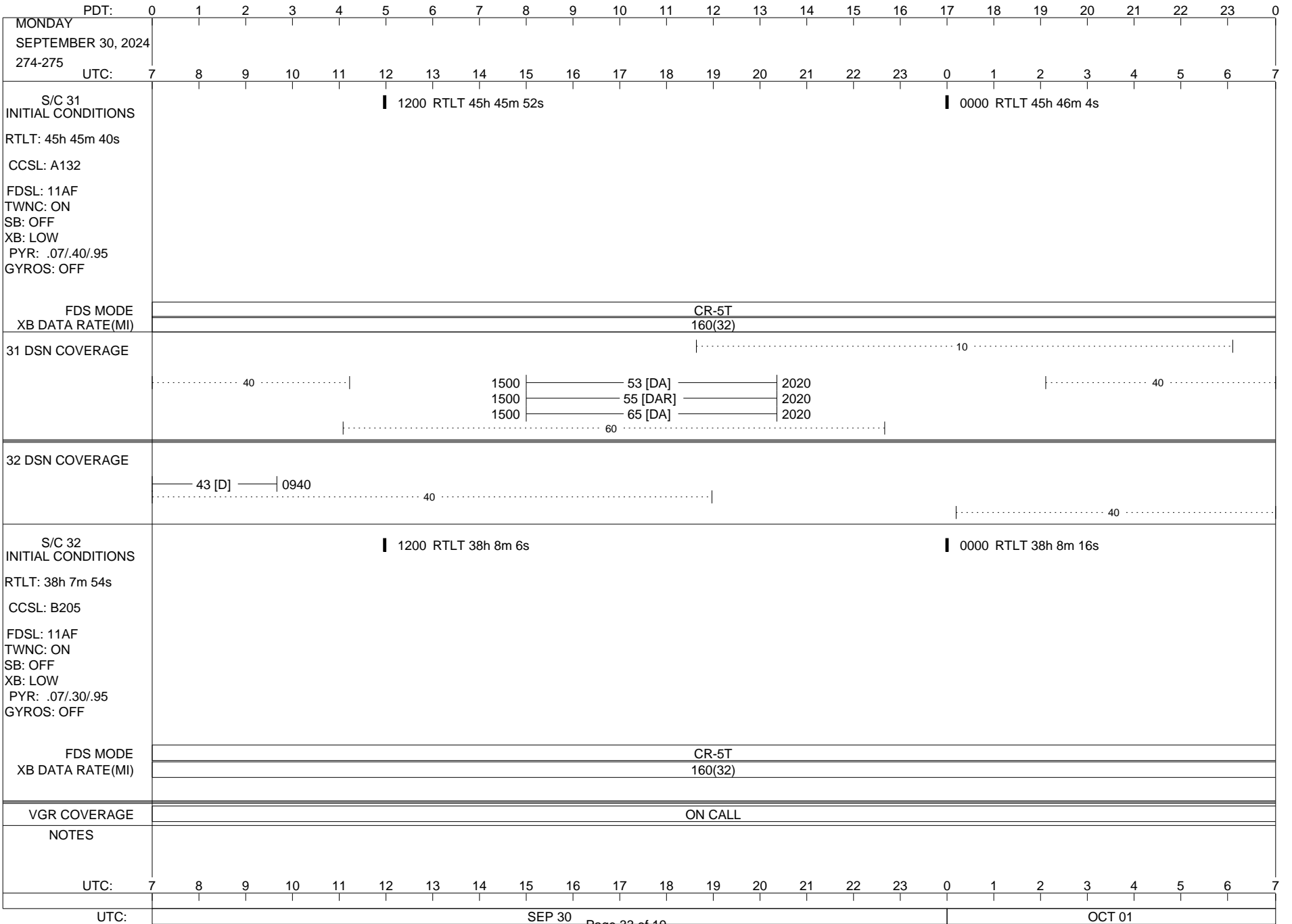
ISSUE DATE: 09/17/24 09:41



ISSUE DATE: 09/17/24 09:41



ISSUE DATE: 09/17/24 09:41



ISSUE DATE: 09/17/24 09:41

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, 2024 275-276																									
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: 45h 46m 4s CCSL: A132 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .07/.40/.95 GYROS: OFF	█ 1200 RTLTL 45h 46m 14s												█ 0000 RTLTL 45h 46m 26s												
	0335   0337 PWS/RH																								
	↓ 0336 GS-4B 0337																								
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 RTLTL: 38h 8m 16s CCSL: B205 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .07/.30/.95 GYROS: OFF	█ 1200 RTLTL 38h 8m 28s												█ 0000 RTLTL 38h 8m 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:	OCT 01												OCT 02												

ISSUE DATE: 09/17/24 09:41

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  
OCTOBER 2, 2024  
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  
RTLTL: 45h 46m 26s  
CCSL: A132  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .07/.40/.95  
GYROS: OFF

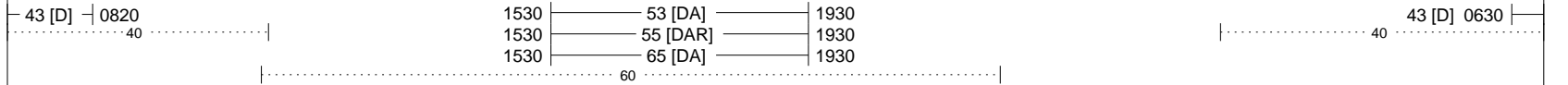
1200 RTLT 45h 46m 38s

0000 RTLT 45h 46m 48s

FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

31 DSN COVERAGE



32 DSN COVERAGE



S/C 32  
INITIAL CONDITIONS  
RTLTL: 38h 8m 38s  
CCSL: B205  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .07/.30/.95  
GYROS: OFF

1200 RTLT 38h 8m 48s

0000 RTLT 38h 9m 0s

FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

VGR COVERAGE

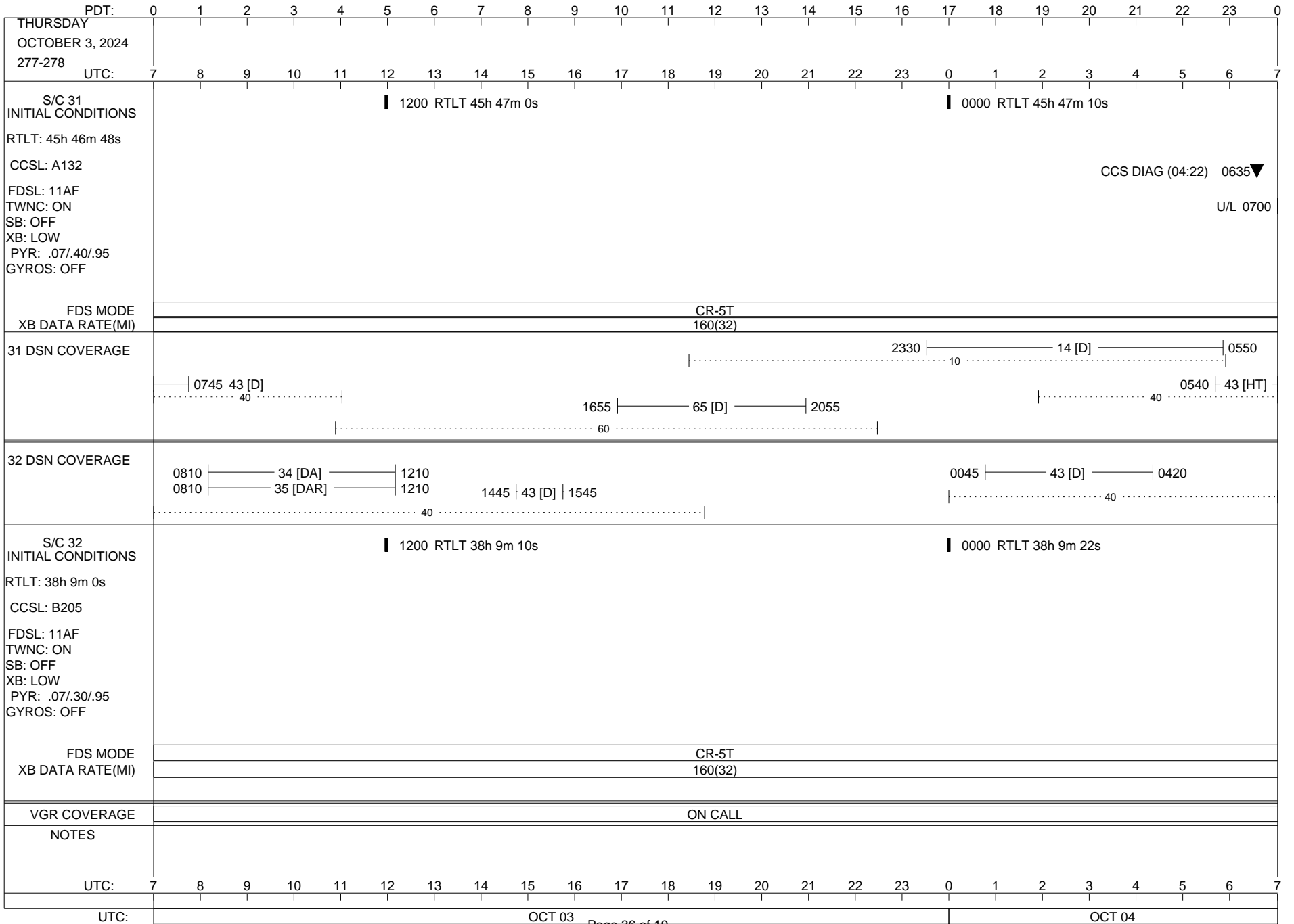
ON CALL

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 02 Page 35 of 19 OCT 03

ISSUE DATE: 09/17/24 09:41

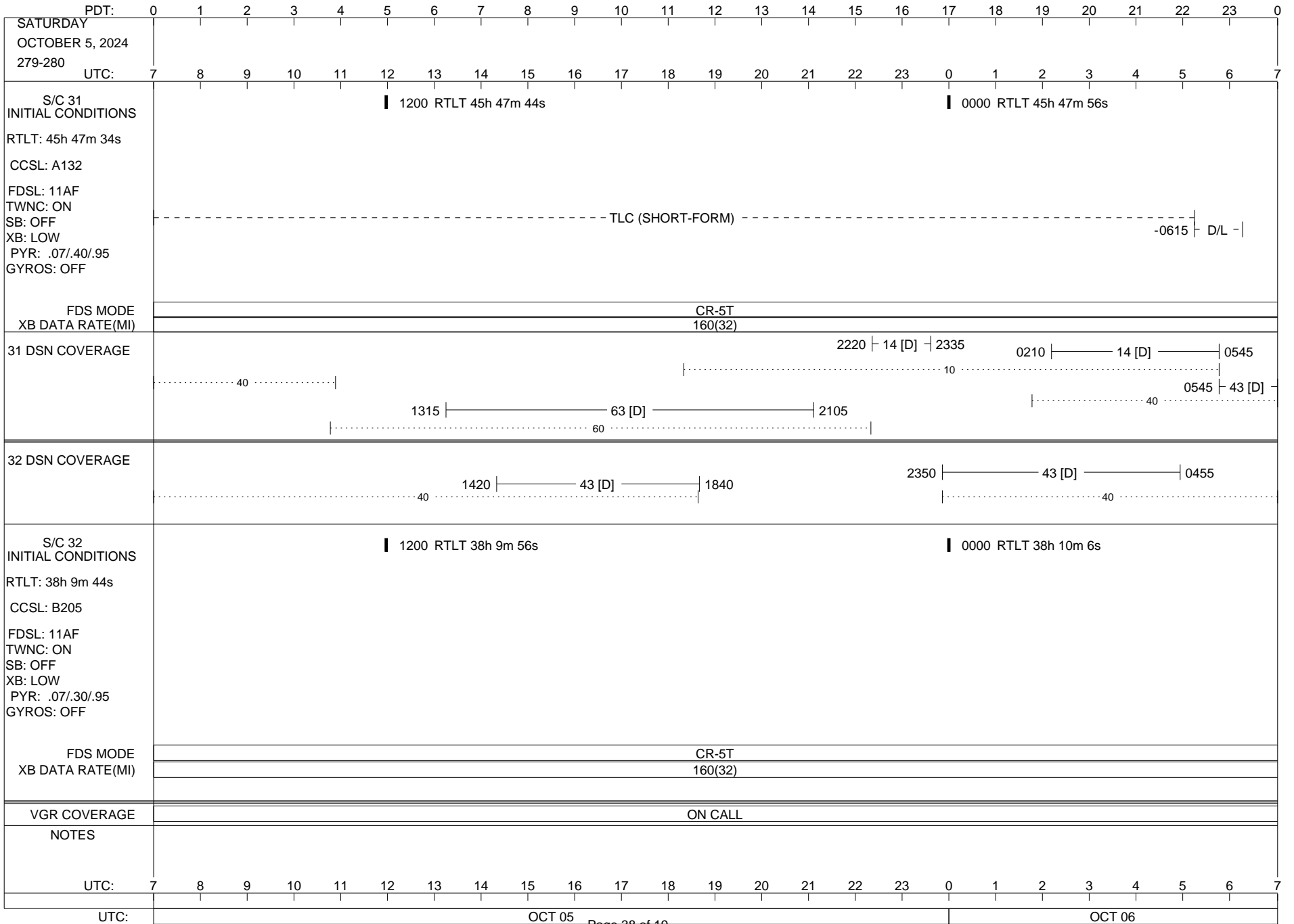




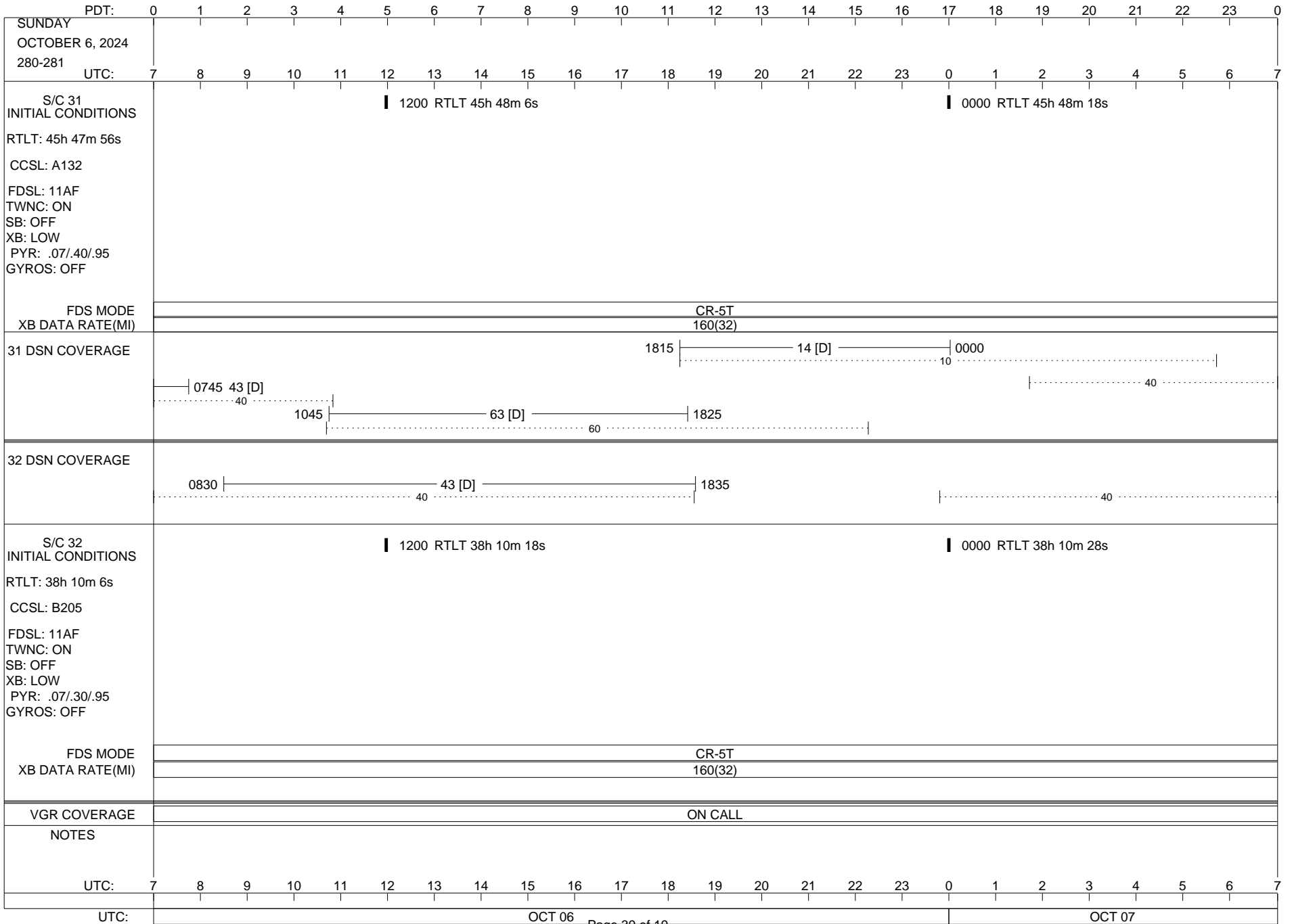
ISSUE DATE: 09/17/24 09:41

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, 2024 278-279																										
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: 45h 47m 10s CCSL: A132 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .07/.40/.95 GYROS: OFF	1200 RTLT 45h 47m 22s												0000 RTLT 45h 47m 34s													
U/L	-  0700 ------ TLC (SHORT-FORM) -----																									
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)													
31 DSN COVERAGE	----- 43 [HT] -----  0945 ..... 40 .....												..... 60 ..... 1735  ----- 53 [DAR] -----  2110 1735  ----- 55 [DA] -----  2110 1735  ----- 65 [DA] -----  2110													
32 DSN COVERAGE	1100  ----- 43 [HB1] -----  1840 ..... 40 .....												2330  ----- 14 [D] -----  0330 ..... 10 ..... 0025  ----- 43 [o] -----  0545 ..... 40 .....													
S/C 32 INITIAL CONDITIONS RTLT: 38h 9m 22s CCSL: B205 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .07/.30/.95 GYROS: OFF	1200 RTLT 38h 9m 34s												0000 RTLT 38h 9m 44s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)													
VGR COVERAGE	ON CALL						VGR						ON CALL													
NOTES	DSS-43 HPTXR DRV OFF <= 17:10																									
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												OCT 05													

ISSUE DATE: 09/17/24 09:41



ISSUE DATE: 09/17/24 09:41



ISSUE DATE: 09/17/24 09:41

