

VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: November 14, 2024

For the Period: 11/14/24 to 12/02/24 (24/319 – 24/337)



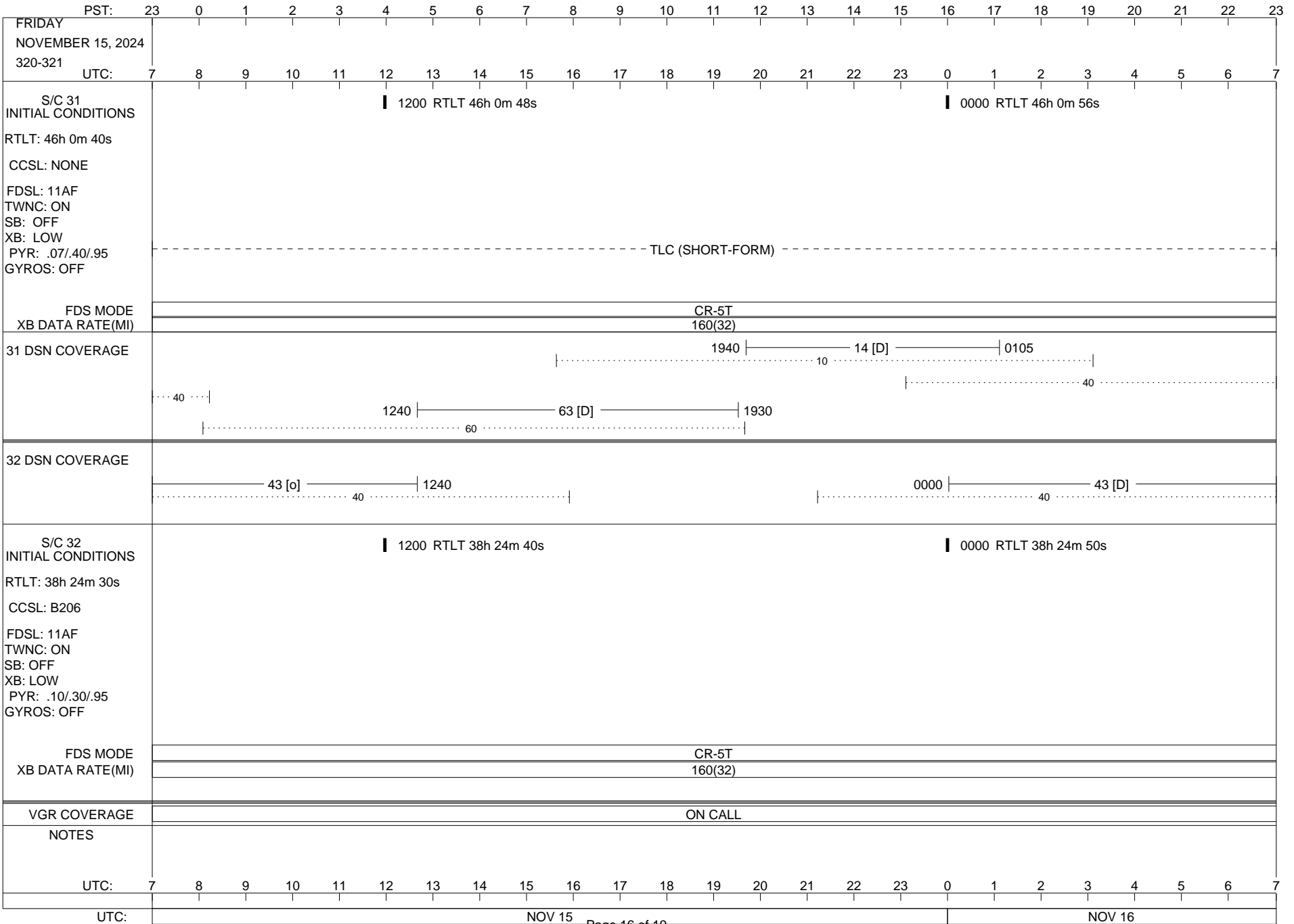
Posted at <https://voyager.jpl.nasa.gov/mission/status/>

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: 11/14/24 17:56

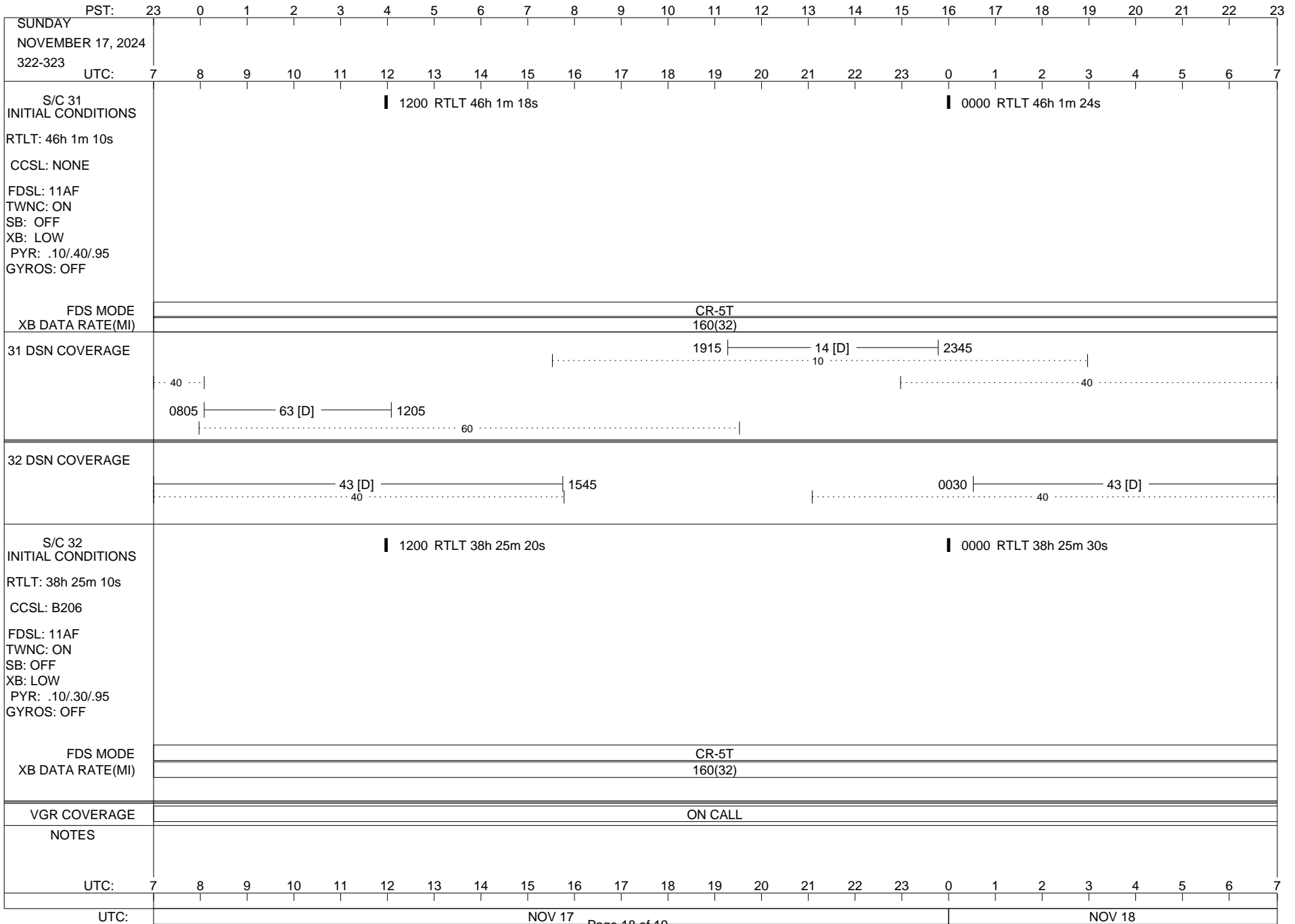
PST:	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
THURSDAY NOVEMBER 14, 2024 319-320	UTC: 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLT: 46h 0m 24s CCSL: NONE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .07/.40/.95 GYROS: OFF	1200 RTLT 46h 0m 32s											0000 RTLT 46h 0m 40s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
31 DSN COVERAGE	40											2350 43 [HT] 0420 1600 63 [D] 1940 60													
32 DSN COVERAGE	0950 43 [H1B] 1425 40											0520 43 [o]													
S/C 32 INITIAL CONDITIONS RTLT: 38h 24m 10s CCSL: B206 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .10/.30/.95 GYROS: OFF	1200 RTLT 38h 24m 20s											0000 RTLT 38h 24m 30s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE	ON CALL			VGR			ON CALL						VGR			ON CALL									
NOTES	[1] DSS-43 HPTXT DRV OFF <= 14:25																								
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:	NOV 14											NOV 15													



ISSUE DATE: 11/14/24 17:56

PST:		23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
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		
SATURDAY NOVEMBER 16, 2024 321-322																												
S/C 31 INITIAL CONDITIONS RTLT: 46h 0m 56s CCSL: NONE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .07/.40/.95 GYROS: OFF		1200 RTLT 46h 1m 2s												0000 RTLT 46h 1m 10s														
														* ↓ 2233 PITCH 0.10 DEG DEADBAND * - CCSTIM 2255 2302 FINE 2323 2326 COARSE														
		----- TLC (SHORT-FORM) -----												+ D/L - 0054														
FDS MODE														CR-5T														
XB DATA RATE(MI)														160(32)														
31 DSN COVERAGE														1915 ----- 14 [D] ----- 0205 ----- 10 ----- 40 ... 0805 ----- 63 [D] ----- 1810 ----- 60 -----														
32 DSN COVERAGE		43 [D] ----- 0910 ----- ----- 40 -----												2245 ----- 43 [D] ----- ----- 40 -----														
S/C 32 INITIAL CONDITIONS RTLT: 38h 24m 50s CCSL: B206 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .10/.30/.95 GYROS: OFF		1200 RTLT 38h 25m 0s												0000 RTLT 38h 25m 10s														
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:		NOV 16															NOV 17											

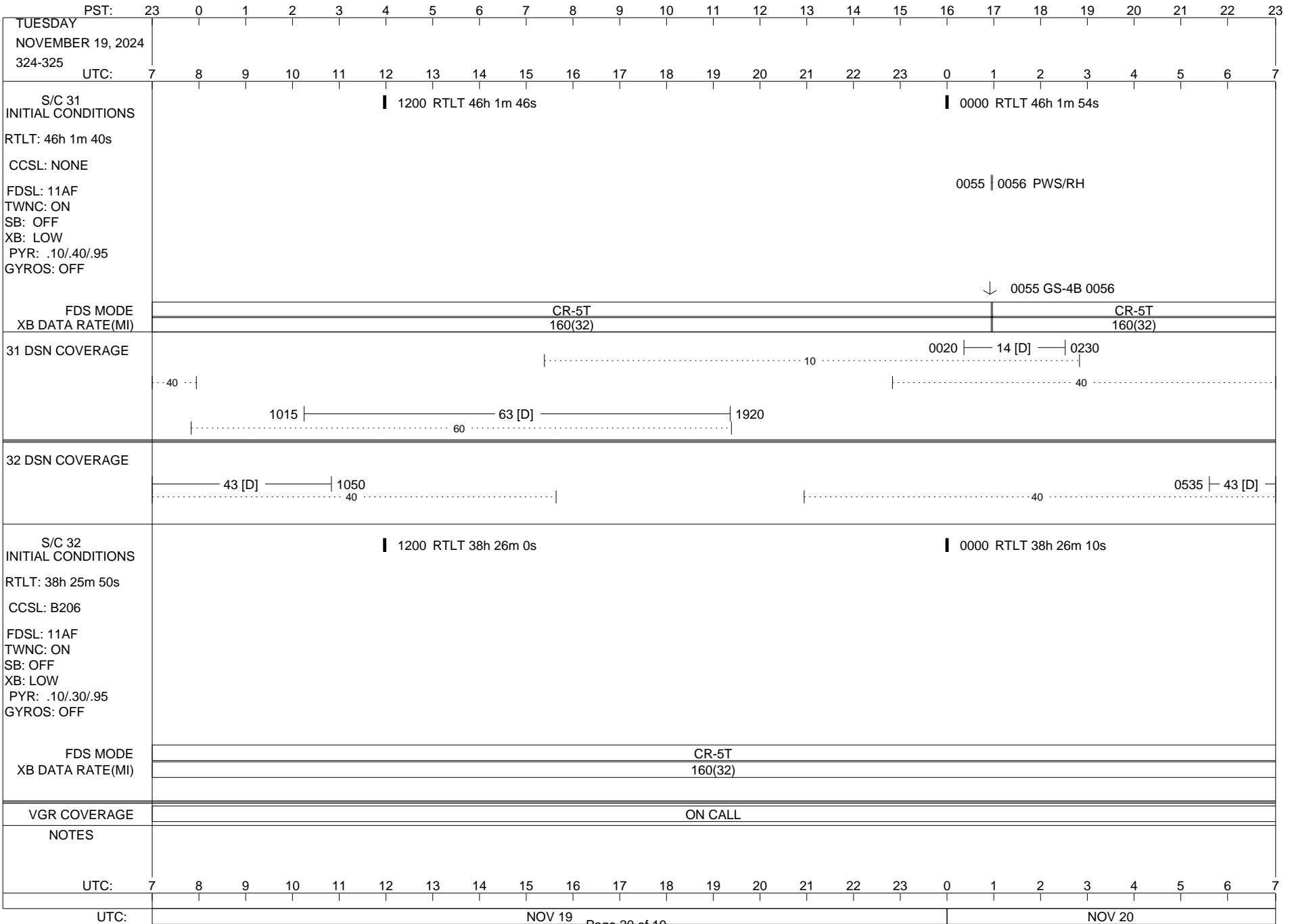
ISSUE DATE: 11/14/24 17:56



ISSUE DATE: 11/14/24 17:56

PST:	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
MONDAY NOVEMBER 18, 2024 323-324																										
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: 46h 1m 24s CCSL: NONE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .10/.40/.95 GYROS: OFF	1200 RTLT 46h 1m 32s												0000 RTLT 46h 1m 40s													
FDS MODE	CR-5T																									
XB DATA RATE(MI)	160(32)																									
31 DSN COVERAGE	0835 ----- 63 [D] ----- 1515												0045 ----- 14 [D] ----- 0250													
32 DSN COVERAGE	43 [D] ----- 1015												0530 ----- 43 [D] -----													
S/C 32 INITIAL CONDITIONS RTLT: 38h 25m 30s CCSL: B206 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .10/.30/.95 GYROS: OFF	1200 RTLT 38h 25m 40s												0000 RTLT 38h 25m 50s													
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:	NOV 18													NOV 19												

ISSUE DATE: 11/14/24 17:56



ISSUE DATE: 11/14/24 17:56

PST: 23 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

WEDNESDAY
NOVEMBER 20, 2024
325-326
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: 46h 1m 54s
CCSL: NONE
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .10/.40/.95
GYROS: OFF

1200 RTLT 46h 2m 0s | 0000 RTLT 46h 2m 8s

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

31 DSN COVERAGE
1620 | 14 [D] | 2120
2245 | 43 [D] | 0445
60

32 DSN COVERAGE
43 [D] | 1005 | 0530 | 43 [D]

S/C 32
INITIAL CONDITIONS
RTLT: 38h 26m 10s
CCSL: B206
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .10/.30/.95
GYROS: OFF

1200 RTLT 38h 26m 20s | 0000 RTLT 38h 26m 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: NOV 20 | NOV 21

ISSUE DATE: 11/14/24 17:56

PST: 23 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

THURSDAY
NOVEMBER 21, 2024
326-327

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: 46h 2m 8s
CCSL: NONE
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .10/.40/.95
GYROS: OFF

1200 RTLT 46h 2m 14s 0000 RTLT 46h 2m 22s

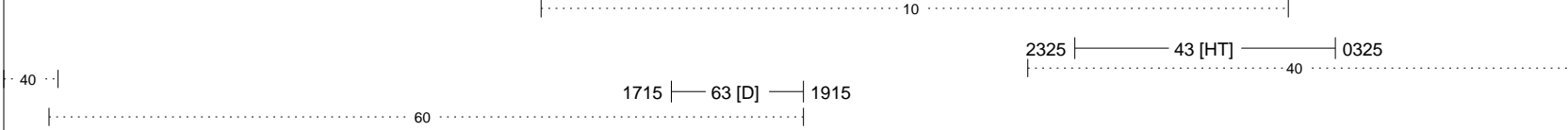
▼ 0025 CCS DIAG (22:28)

U/L 0050 | - | - - - - - 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: 38h 26m 28s
CCSL: B206
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .10/.30/.95
GYROS: OFF

1200 RTLT 38h 26m 38s 0000 RTLT 38h 26m 48s

FDS MODE
XB DATA RATE(MI)

CR-5T
160(32)

VGR COVERAGE

ON CALL

VGR

ON CALL

NOTES

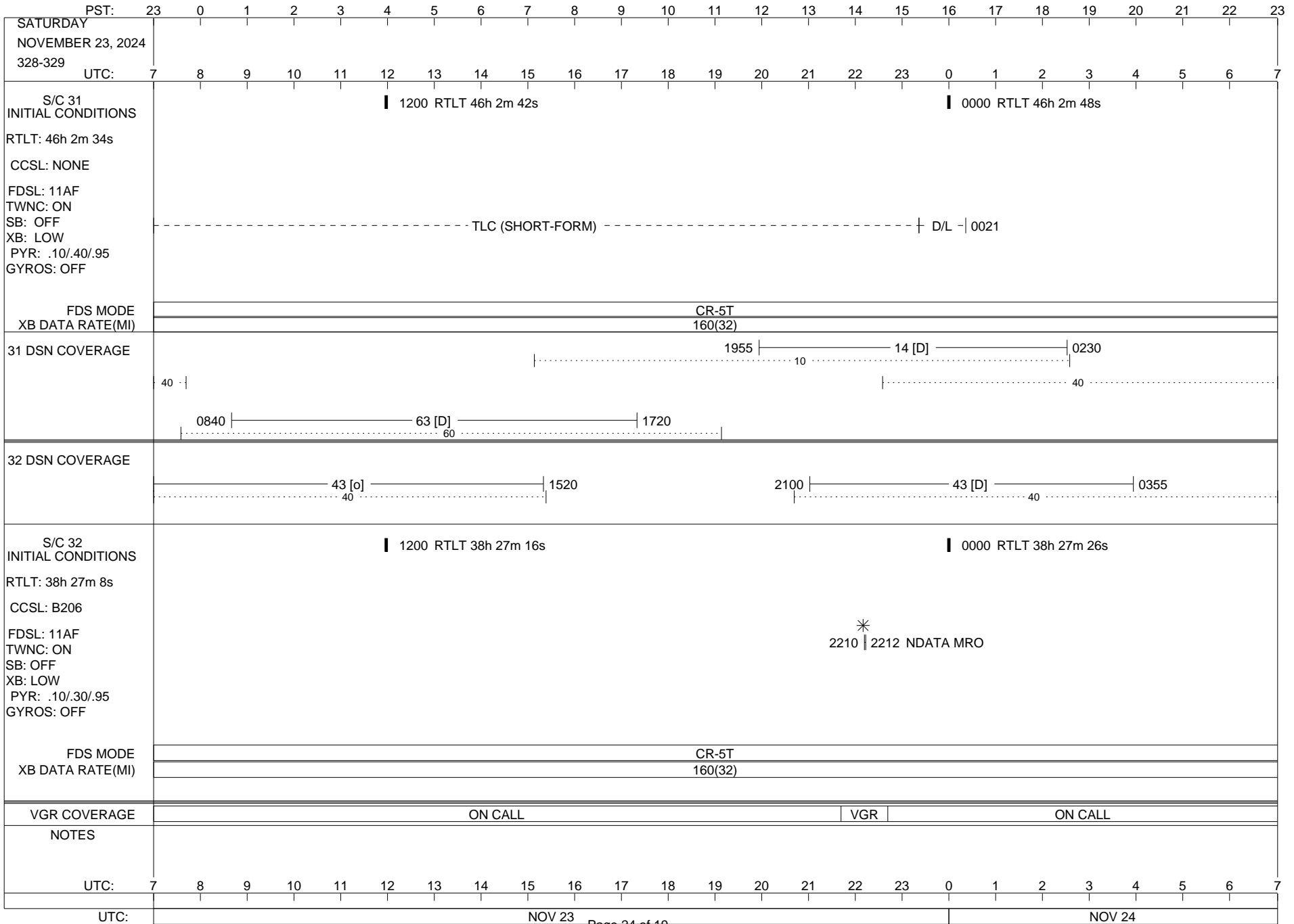
UTC: 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7

UTC: NOV 21 Page 22 of 19 NOV 22

ISSUE DATE: 11/14/24 17:56

PST:		23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
FRIDAY NOVEMBER 22, 2024 327-328																												
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: 46h 2m 22s CCSL: NONE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .10/.40/.95 GYROS: OFF		1200 RTLT 46h 2m 28s												0000 RTLT 46h 2m 34s														
FDS MODE XB DATA RATE(MI)																	CR-5T 160(32)											
31 DSN COVERAGE		<p>..... 10 </p> <p>..... 40 </p> <p>0800 ----- 63 [D] ----- 1240</p> <p>..... 60 </p>																										
32 DSN COVERAGE		<p>----- 43 [H1] ----- 1005</p> <p>..... 40 </p> <p>..... 2320 ----- 43 [o] -----</p> <p>..... 40 </p>																										
S/C 32 INITIAL CONDITIONS RTLT: 38h 26m 48s CCSL: B206 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .10/.30/.95 GYROS: OFF		1200 RTLT 38h 26m 58s												0000 RTLT 38h 27m 8s														
FDS MODE XB DATA RATE(MI)																	CR-5T 160(32)											
VGR COVERAGE		VGR																									ON CALL	
NOTES		<p>▼ 0742 NDATA MRO (22:09)</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:		NOV 22															NOV 23											

ISSUE DATE: 11/14/24 17:56



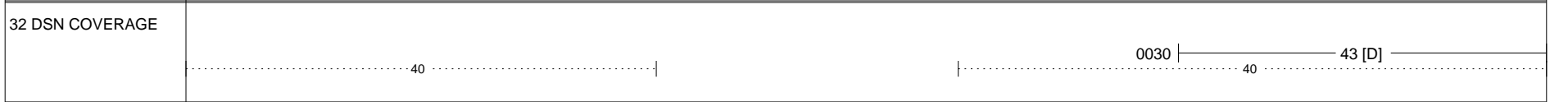
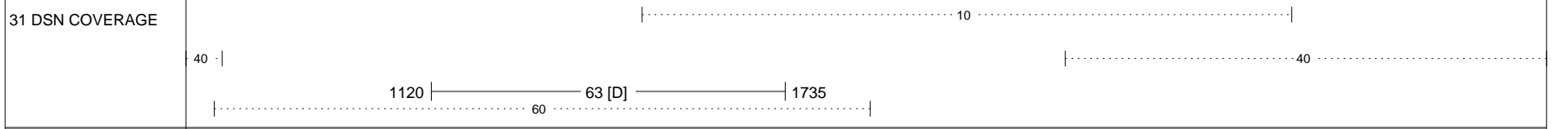
ISSUE DATE: 11/14/24 17:56

PST: 23 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

SUNDAY
NOVEMBER 24, 2024
329-330
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: 46h 2m 48s
CCSL: NONE
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .10/.40/.95
GYROS: OFF
1200 RTLT 46h 2m 54s
0000 RTLT 46h 3m 2s

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



S/C 32
INITIAL CONDITIONS
RTLT: 38h 27m 26s
CCSL: B206
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .10/.30/.95
GYROS: OFF
1200 RTLT 38h 27m 36s
0000 RTLT 38h 27m 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: NOV 24 Page 25 of 19 NOV 25

PST: 23 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

MONDAY
NOVEMBER 25, 2024
330-331
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: 46h 3m 2s
CCSL: NONE
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .10/.40/.95
GYROS: OFF

1200 RTLT 46h 3m 8s

0000 RTLT 46h 3m 14s

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

31 DSN COVERAGE
40 | 40
0800 |----- 63 [D] -----| 1225
|..... 60|

32 DSN COVERAGE
43 [D] -----| 0945 40 40 0530 |--- 43 [D] ---

S/C 32
INITIAL CONDITIONS
RTLT: 38h 27m 44s
CCSL: B206
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .10/.30/.95
GYROS: OFF

1200 RTLT 38h 27m 54s

0000 RTLT 38h 28m 4s

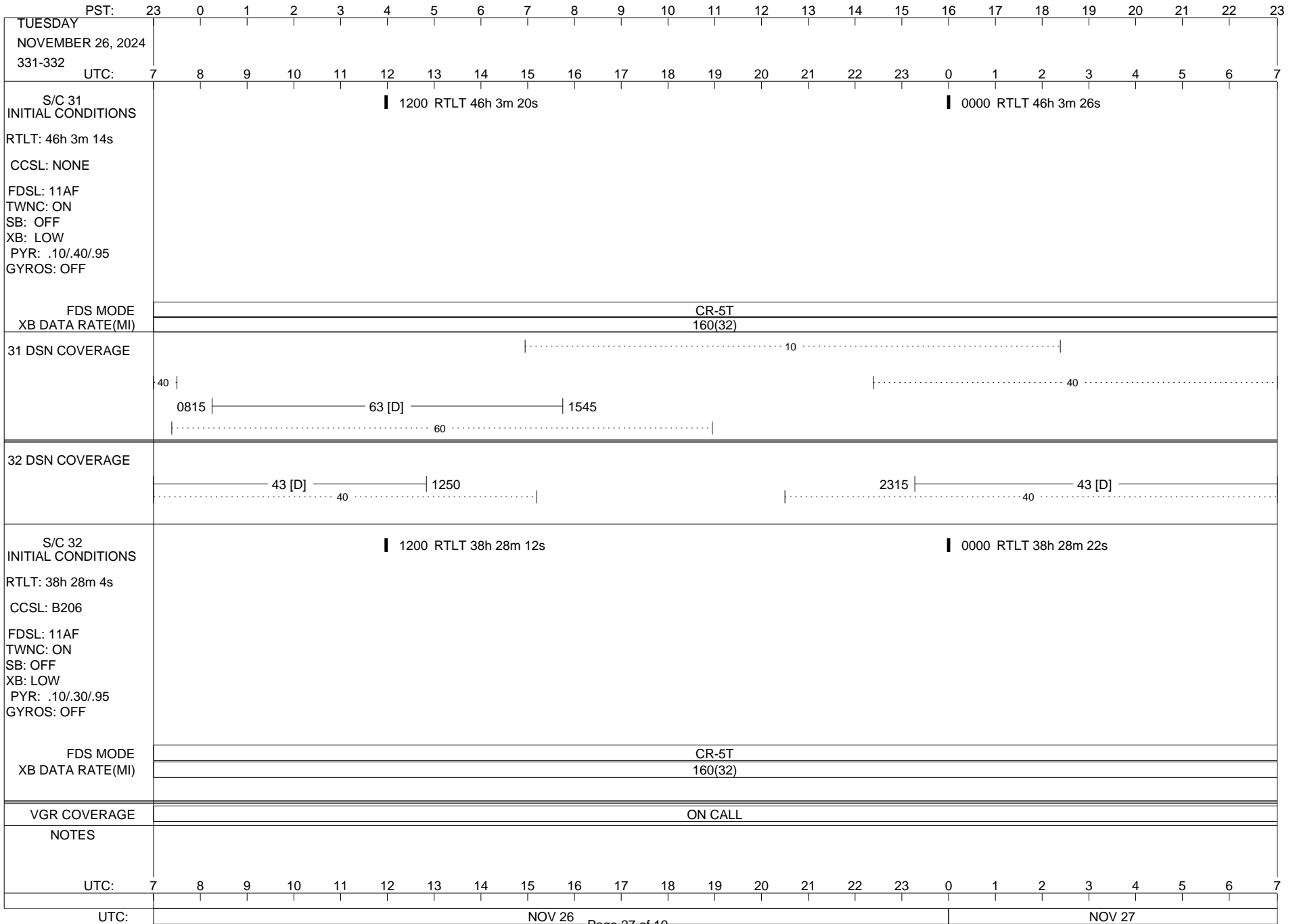
FDS MODE
XB DATA RATE(MI)
CR-5T
160(32)

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

ISSUE DATE: 11/14/24 17:56



ISSUE DATE: 11/14/24 17:56

PST:	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WEDNESDAY NOVEMBER 27, 2024 332-333																									
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: 46h 3m 26s CCSL: NONE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .10/.40/.95 GYROS: OFF						1200													0000						
FDS MODE XB DATA RATE(MI)																									
31 DSN COVERAGE																									
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS RTLTL: 38h 28m 22s CCSL: B206 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .10/.30/.95 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:																									

JPL HOLIDAY!

ISSUE DATE: 11/14/24 17:56

		PST:	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
THURSDAY NOVEMBER 28, 2024 333-334		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: 46h 3m 38s CCSL: NONE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .10/.40/.95 GYROS: OFF		1200 RTLT 46h 3m 44s											0000 RTLT 46h 3m 50s															
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)															
31 DSN COVERAGE		1700 ----- 14 [D] ----- 0210 ----- 10 ----- 40											1600 63 [D] 1715 ----- 60 -----															
32 DSN COVERAGE		43 [H1B] ----- 1000 ----- 40 -----											0105 ----- 43 [D] ----- ----- 40 -----															
S/C 32 INITIAL CONDITIONS RTLT: 38h 28m 40s CCSL: B206 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .10/.30/.95 GYROS: OFF		1200 RTLT 38h 28m 50s											0000 RTLT 38h 28m 58s															
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)															
VGR COVERAGE		VGR											ON CALL															
NOTES		[1] DSS-43 HPTXR DRV OFF <= 13:40 JPL HOLIDAY!																										
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:		NOV 28											NOV 29															

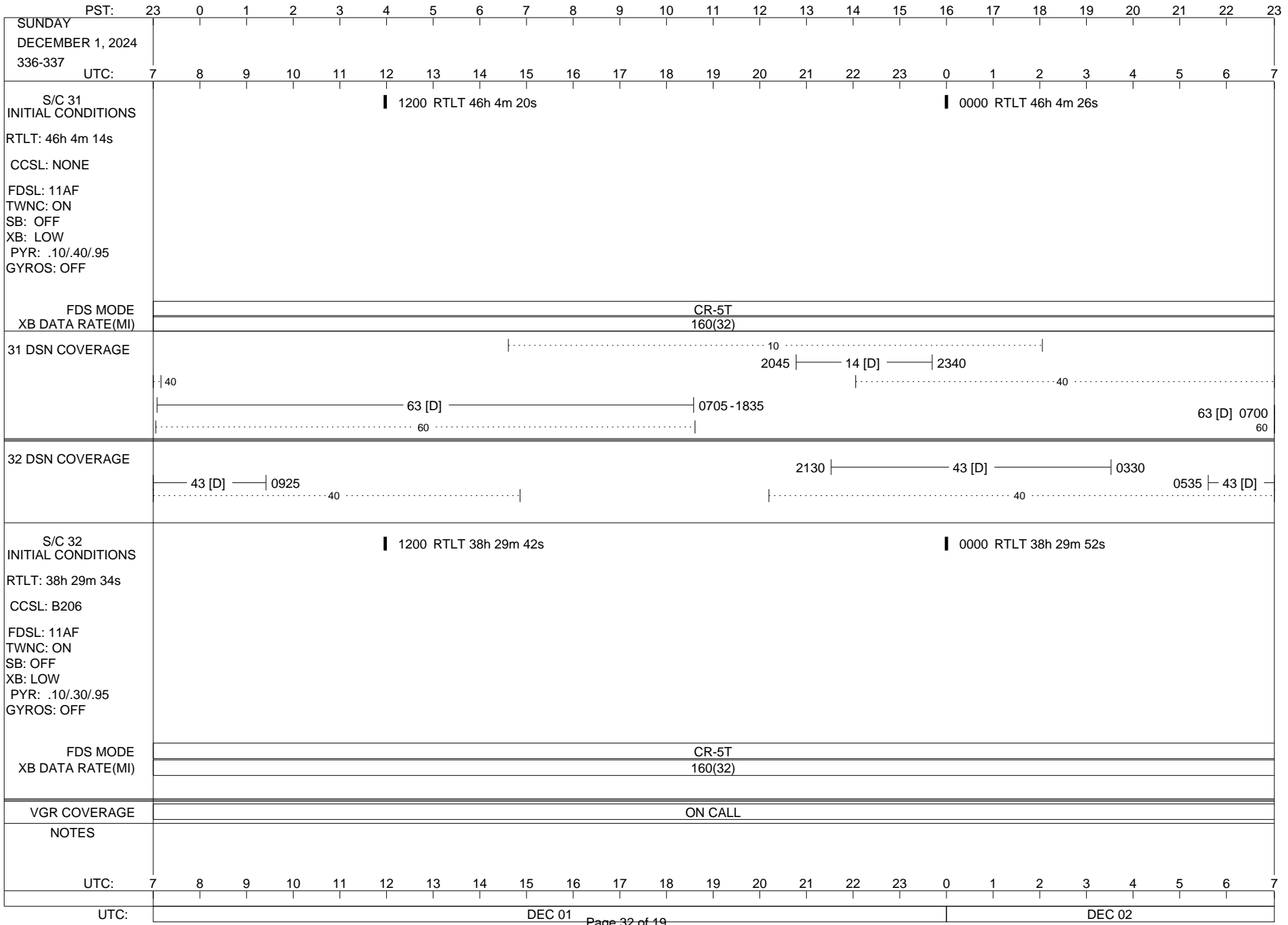
ISSUE DATE: 11/14/24 17:56

FRIDAY NOVEMBER 29, 2024 334-335		PST: 23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
S/C 31 INITIAL CONDITIONS RTLT: 46h 3m 50s CCSL: NONE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .10/.40/.95 GYROS: OFF		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	
		1200 RTLT 46h 3m 56s											0000 RTLT 46h 4m 2s														
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)																									
31 DSN COVERAGE		1905 ----- 14 [D] ----- 0115 ----- 10 -----											0135 ----- 43 [D] ----- 0540 ----- 40 -----														
		0835 ----- 63 [D] ----- 1710 ----- 60 -----																									
32 DSN COVERAGE		43 [D] ----- 0935 ----- 40 -----											2040 ----- 43 [D] ----- 0045 ----- 40 -----														
S/C 32 INITIAL CONDITIONS RTLT: 38h 28m 58s CCSL: B206 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .10/.30/.95 GYROS: OFF		1200 RTLT 38h 29m 8s											0000 RTLT 38h 29m 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:		NOV 29											NOV 30														

ISSUE DATE: 11/14/24 17:56

PST: 23 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	
<p>SATURDAY NOVEMBER 30, 2024 335-336</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	
<p>S/C 31 INITIAL CONDITIONS RTLTL: 46h 4m 2s CCSL: NONE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .10/.40/.95 GYROS: OFF</p>	<p>1200 RTLT 46h 4m 8s 0000 RTLT 46h 4m 14s</p>
FDS MODE	CR-5T
XB DATA RATE(MI)	160(32)
31 DSN COVERAGE	<p>1220 63 [D] 1705</p>
32 DSN COVERAGE	<p>0410 43 [D] 1125</p>
<p>S/C 32 INITIAL CONDITIONS RTLTL: 38h 29m 16s CCSL: B206 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .10/.30/.95 GYROS: OFF</p>	<p>1200 RTLT 38h 29m 24s 0000 RTLT 38h 29m 34s</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	
<p>UTC: NOV 30 DEC 01</p>	

ISSUE DATE: 11/14/24 17:56



ISSUE DATE: 11/14/24 17:56

PST: 23 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

MONDAY
DECEMBER 2, 2024
337-338
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: 46h 4m 26s
CCSL: NONE
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .10/.40/.95
GYROS: OFF

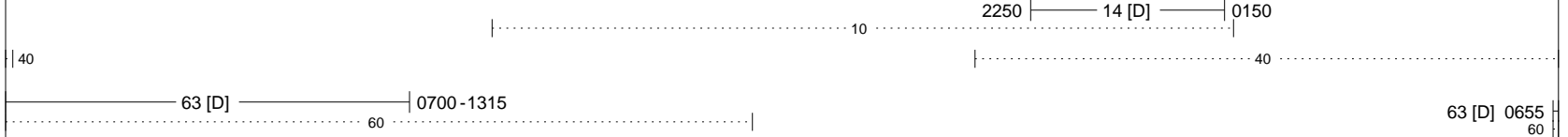
1200 RTLT 46h 4m 32s

0000 RTLT 46h 4m 36s

FDS MODE
XB DATA RATE(MI)

CR-5T
160(32)

31 DSN COVERAGE



32 DSN COVERAGE



S/C 32
INITIAL CONDITIONS
RTLTL: 38h 29m 52s
CCSL: B206
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .10/.30/.95
GYROS: OFF

1200 RTLT 38h 30m 0s

0000 RTLT 38h 30m 8s

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: DEC 02 Page 33 of 19 DEC 03