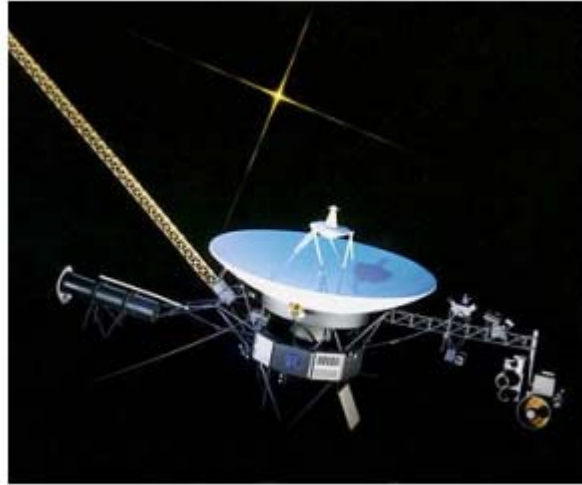


VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: November 1, 2023

For the Period: 11/02/23 to 11/20/23 (23/306 – 23/324)



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

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 NOVEMBER 2, 2023 306-307																									
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: 44h 57m 36s CCSL: A129 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.50 GYROS: OFF	1200 RTLTL 44h 57m 46s												0000 RTLTL 44h 57m 54s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	-----40-----												-----40-----												
	-----60-----												-----40-----												
32 DSN COVERAGE	-----40-----												-----40-----												
S/C 32 INITIAL CONDITIONS RTLTL: 37h 27m 2s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 37h 27m 12s												0000 RTLTL 37h 27m 22s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
VGR COVERAGE	ON CALL						VGR						ON CALL												
NOTES	[1] DSS-43 HPTXR DRV OFF <= 15:16																								
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 02												NOV 03												

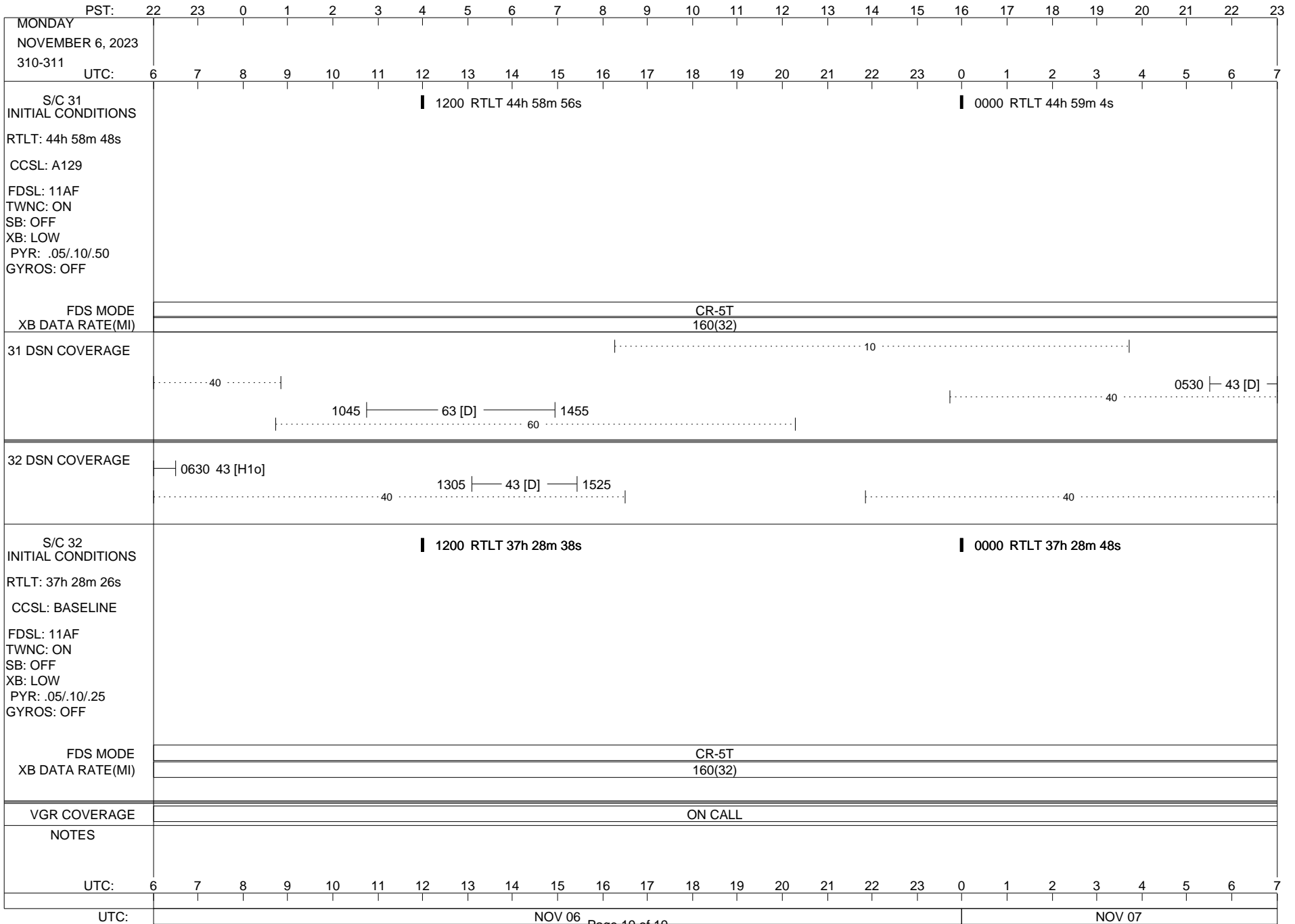
PDT:		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0			
UTC:		7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7			
FRIDAY NOVEMBER 3, 2023 307-308																													
S/C 31 INITIAL CONDITIONS RTLT: 44h 57m 54s CCSL: A129 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.50 GYROS: OFF		1200 RTLT 44h 58m 4s														0000 RTLT 44h 58m 12s													
FDS MODE XB DATA RATE(MI)																CR-5T 160(32)													
31 DSN COVERAGE																													
32 DSN COVERAGE																													
S/C 32 INITIAL CONDITIONS RTLT: 37h 27m 22s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLT 37h 27m 34s														0000 RTLT 37h 27m 44s													
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)														EL-40 0137 40(30)				0338 CR-5T 160(32)									
VGR COVERAGE		ON CALL														VGR				ON CALL									
NOTES		[1] SC 32=EL-40 @ 0137 XB=40(30) [2] SC 32=CR-5T @ 0338 XB=160(32)																											
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 03														NOV 04													

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			
SATURDAY NOVEMBER 4, 2023 308-309																													
S/C 31 INITIAL CONDITIONS RTLT: 44h 58m 12s CCSL: A129 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.50 GYROS: OFF		1200 RTLT 44h 58m 22s														0000 RTLT 44h 58m 30s													
																↓ 2253 GYROS BC ON ↓ 2253 GYRO INIT ↓ 2303 GYRO FAULT TEST ↓ 2323 AAI 2326 - 2357 MAGROL ↓ 0005 RAI ↓ 0011 GYROS OFF ↓ 0020 BAY 1 HTR OFF ↓ 2256 EL-40 2258													
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: 37h 27m 44s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLT 37h 27m 54s														0000 RTLT 37h 28m 6s													
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 04														NOV 05													

ISSUE DATE: 11/08/23 08:04

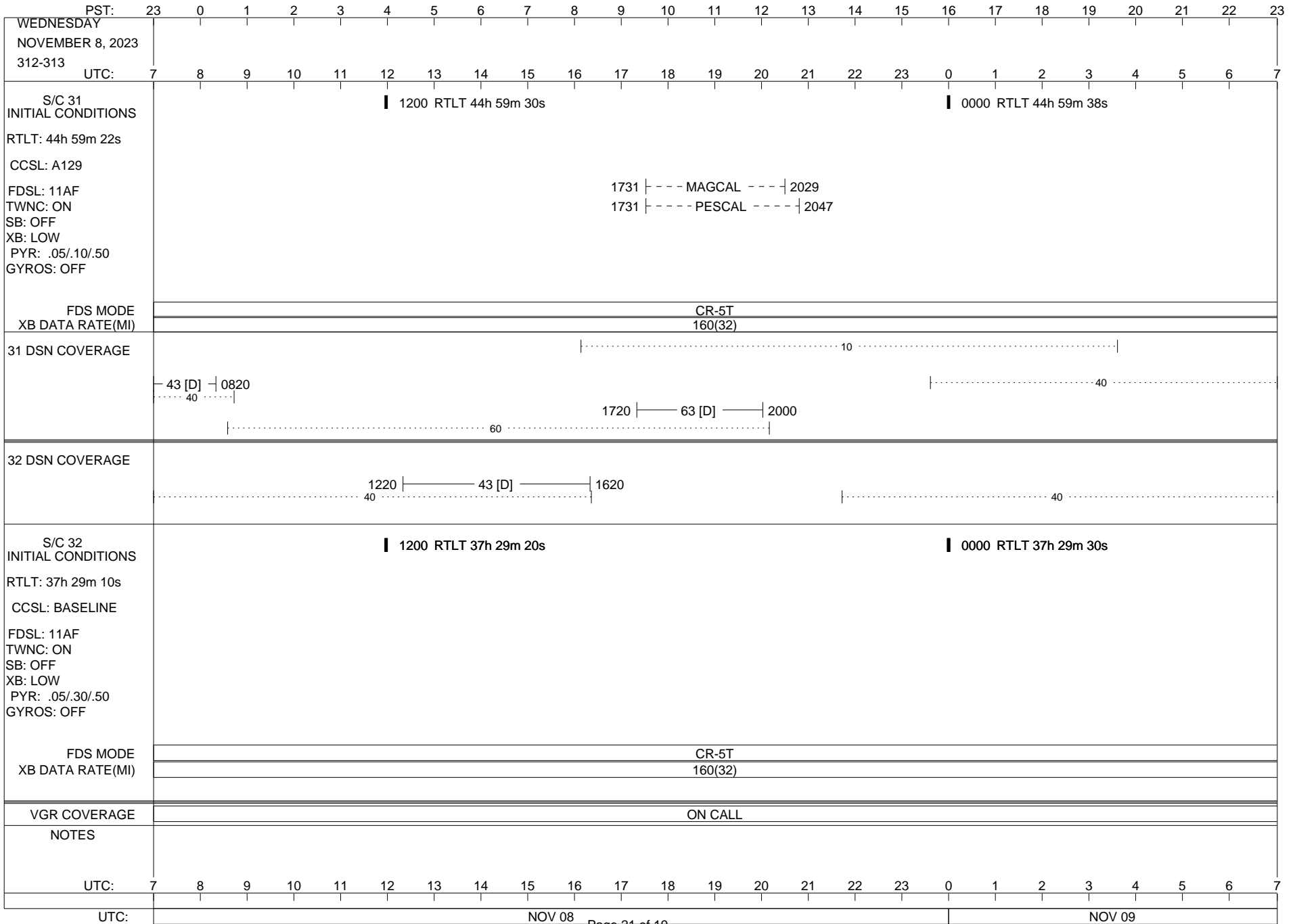
PDT:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
SUNDAY NOVEMBER 5, 2023 309-310																								
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6
S/C 31 INITIAL CONDITIONS RTLTL: 44h 58m 30s CCSL: A129 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.50 GYROS: OFF						1200																		
FDS MODE XB DATA RATE(MI)																								
31 DSN COVERAGE																								
32 DSN COVERAGE																								
S/C 32 INITIAL CONDITIONS RTLTL: 37h 28m 6s CCSL: BASELINE 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
UTC:																								

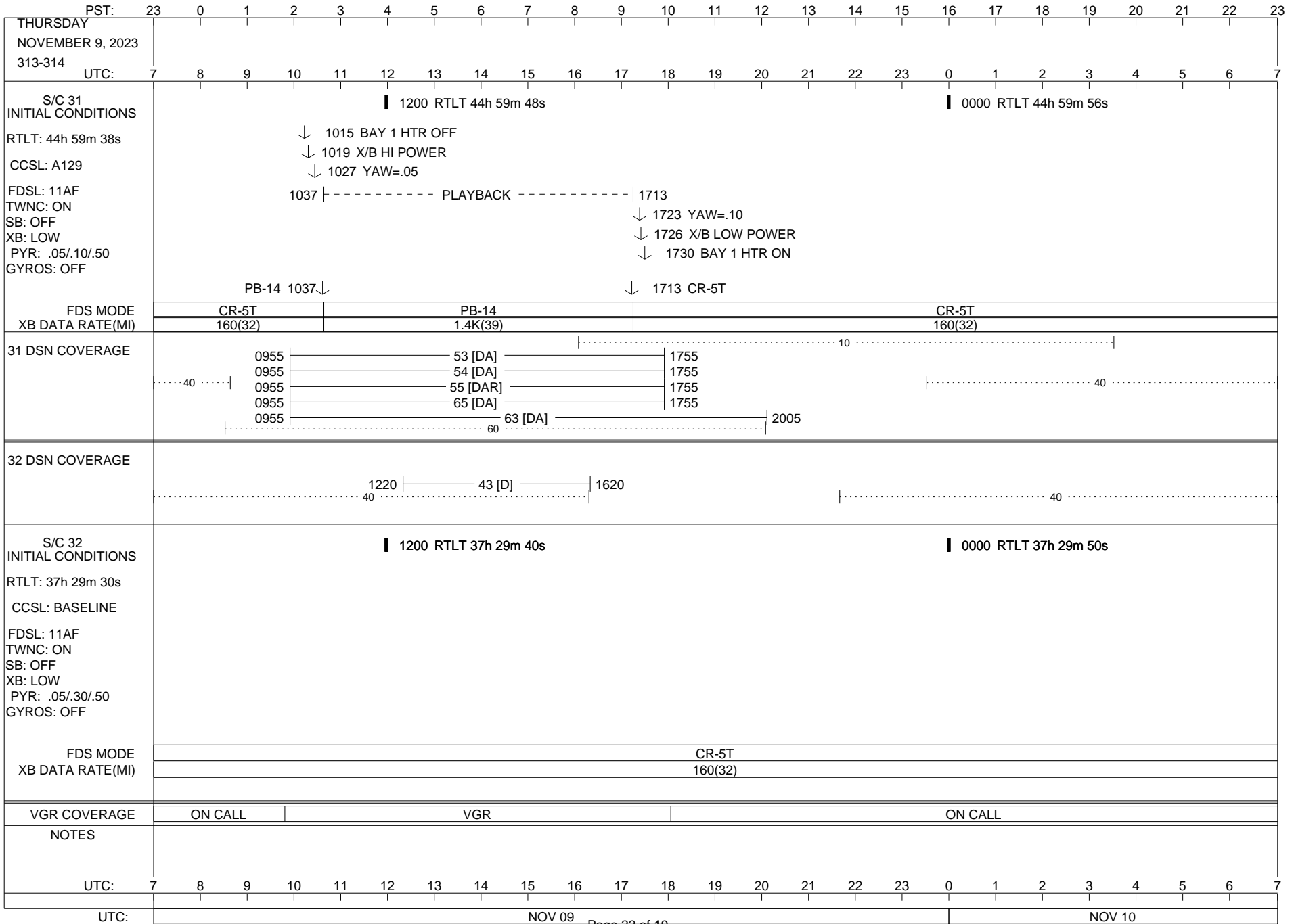
ISSUE DATE: 11/08/23 08:04



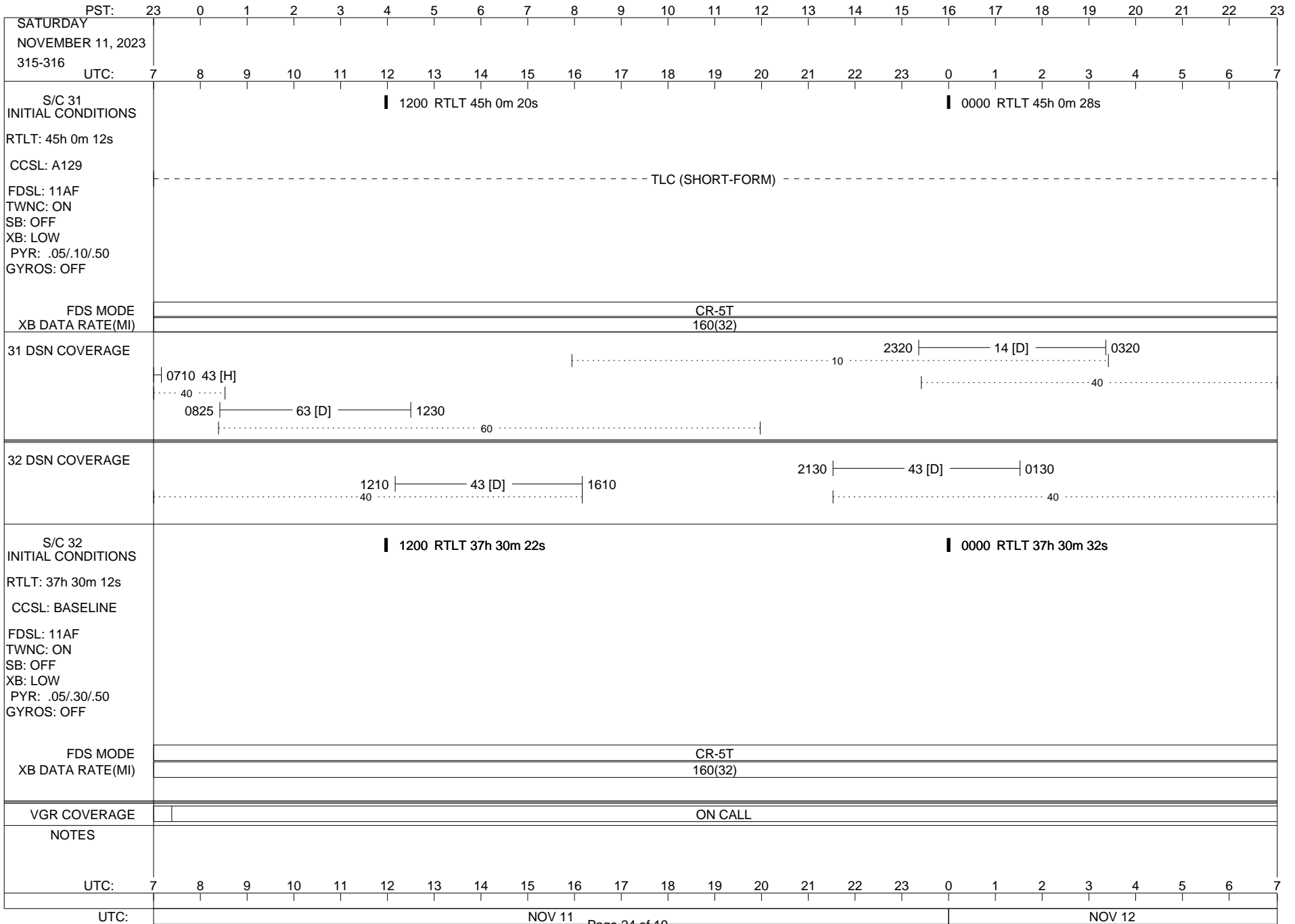
		PST: 23 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23																						
TUESDAY NOVEMBER 7, 2023 311-312																								
		UTC: 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7																						
S/C 31 INITIAL CONDITIONS RTLT: 44h 59m 4s CCSL: A129 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.50 GYROS: OFF	1200 RTLT 44h 59m 14s																						0000 RTLT 44h 59m 22s	
																		0135 0136 PWS/RH						
																		TAPPOS 0630-0655 -						
FDS MODE		CR-5T										CR-5T												
XB DATA RATE(MI)		160(32)										160(32)												
31 DSN COVERAGE	 10 - 43 [D] - 0835 0510 - 43 [D] - 40 40 60																						
32 DSN COVERAGE		0920 43 [D] 1625 40																						
S/C 32 INITIAL CONDITIONS RTLT: 37h 28m 48s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 37h 28m 58s																						0000 RTLT 37h 29m 10s	
															* ↓ 1420 ROLL 0.5 DEADBAND * ↓ 1442 YAW 0.3 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:		NOV 07											NOV 08											

ISSUE DATE: 11/08/23 08:04



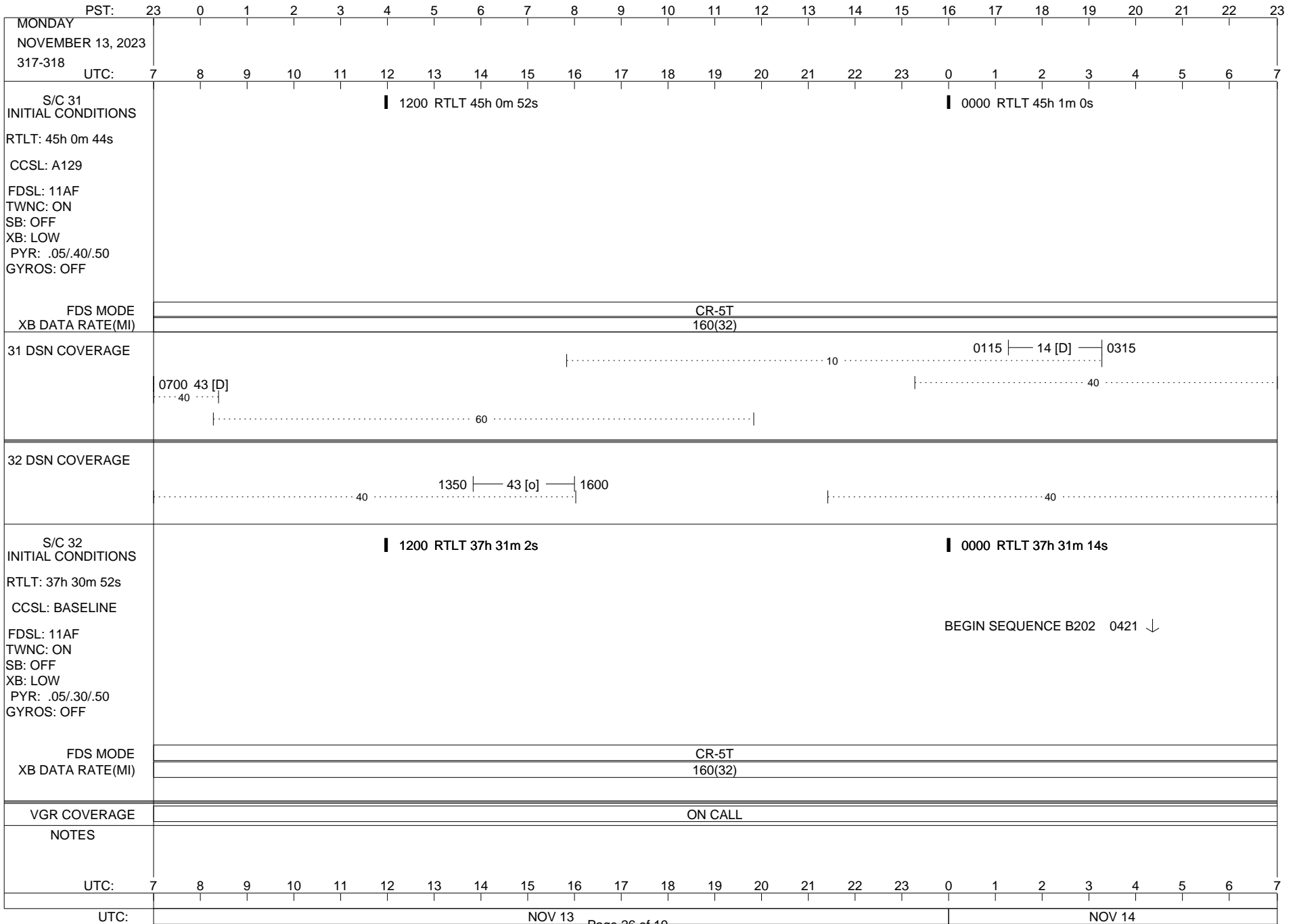


		PST:	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
FRIDAY NOVEMBER 10, 2023 314-315		UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLT: 44h 59m 56s CCSL: A129 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/50 GYROS: OFF		1200 RTLT 45h 0m 4s		0000 RTLT 45h 0m 12s																							
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)																									
31 DSN COVERAGE																											
32 DSN COVERAGE																											
S/C 32 INITIAL CONDITIONS RTLT: 37h 29m 50s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/30/50 GYROS: OFF		1200 RTLT 37h 30m 2s		0000 RTLT 37h 30m 12s																							
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)											▼ 2335 EL-40 (13:05) ▼ 2357 CCSL B202 (13:27) ▼ 0038 CCSTIM F/C (14:08) ▼ 0106 CR-5T (14:36)														
VGR COVERAGE		ON CALL											VGR				ON CALL				VGR						
NOTES		[1] DSS-43 HPTXR DRV ON >= 23:05																									
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 10															NOV 11										

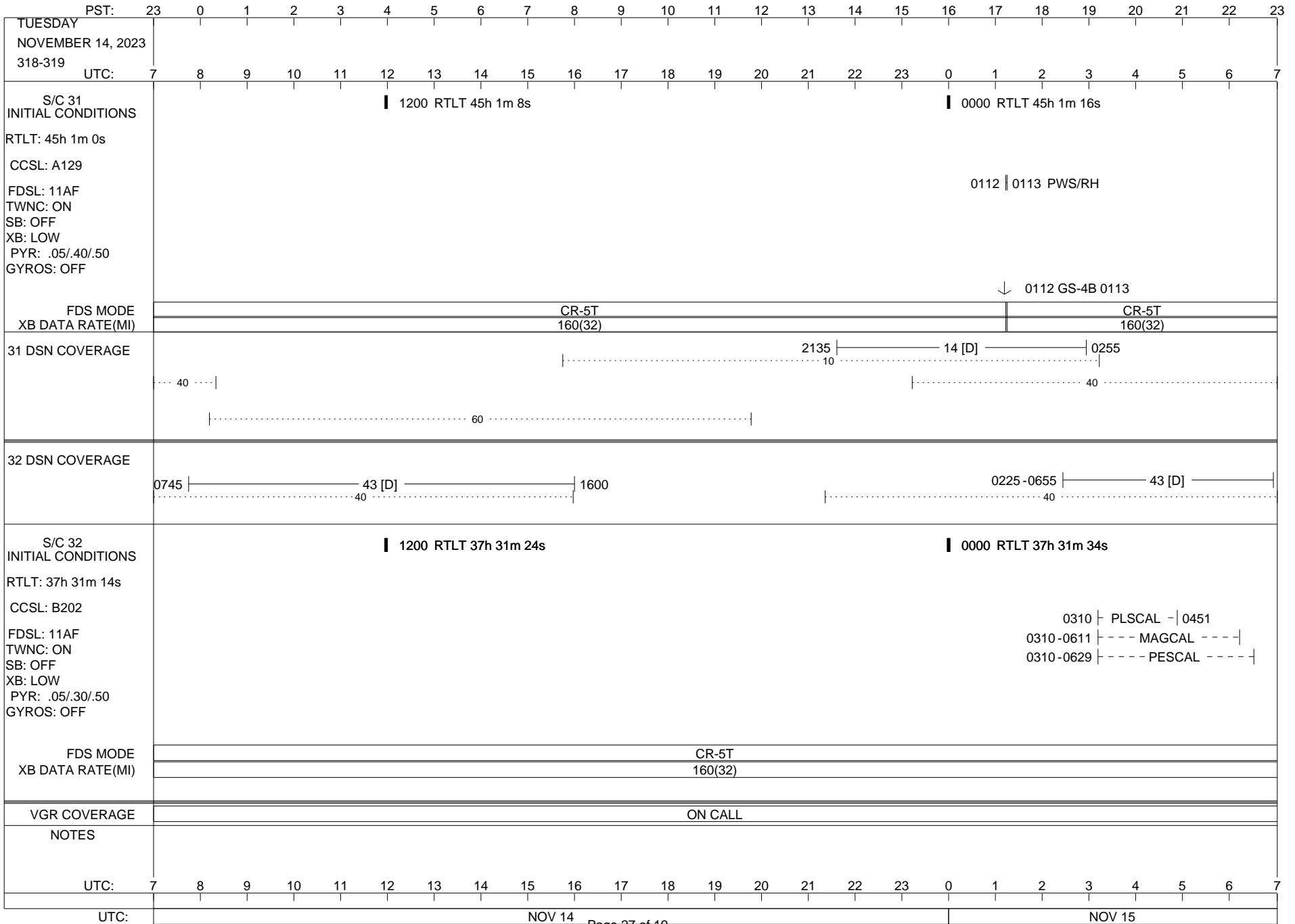


PST:	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SUNDAY NOVEMBER 12, 2023 316-317	UTC: 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLTL: 45h 0m 28s CCSL: A129 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/50 GYROS: OFF	1200 RTLT 45h 0m 36s											0000 RTLT 45h 0m 44s													
FDS MODE	CR-5T											EL-40													
XB DATA RATE(MI)	160(32)											40(30)													
31 DSN COVERAGE	0820 ----- 63 [D] ----- 1430 40 60 10 0300-0700 ----- 43 [D] ----- 40													
32 DSN COVERAGE 1120 ----- 43 [D] ----- 1605 40 40													
S/C 32 INITIAL CONDITIONS RTLTL: 37h 30m 32s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/30/50 GYROS: OFF	1200 RTLT 37h 30m 42s											0000 RTLT 37h 30m 52s													
FDS MODE	CR-5T					EL-40					CR-5T														
XB DATA RATE(MI)	160(32)					40(30)					160(32)														
VGR COVERAGE	ON CALL					VGR					ON CALL					VGR									
NOTES	[1] SC 32=EL-40 @ 1306 XB=40(30) [2] SC 32=CR-5T @ 1437 XB=160(32)											[3] SC 31=EL-40 @ 0321 XB=40(30) [4] SC 31=CR-5T @ 0538 XB=160(32)													
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 12											NOV 13													

ISSUE DATE: 11/08/23 08:04



ISSUE DATE: 11/08/23 08:04



ISSUE DATE: 11/08/23 08:04

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 15, 2023
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: 45h 1m 16s
CCSL: A129
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.40/.50
GYROS: OFF

1200 RTLT 45h 1m 22s

0000 RTLT 45h 1m 30s

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



S/C 32
INITIAL CONDITIONS
RTLT: 37h 31m 34s
CCSL: B202
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.30/.50
GYROS: OFF

1200 RTLT 37h 31m 44s

0000 RTLT 37h 31m 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: NOV 15 Page 28 of 19 NOV 16

ISSUE DATE: 11/08/23 08:04

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 16, 2023
320-321
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 1m 30s
CCSL: A129
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.40/.50
GYROS: OFF

1200 RTLT 45h 1m 38s

0000 RTLT 45h 1m 46s

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

31 DSN COVERAGE
.....|.....10.....|
|.....40.....|40.....|
|.....60.....|

32 DSN COVERAGE
-----43 [o]-----|1125
|.....40.....|40.....|

S/C 32
INITIAL CONDITIONS
RTLT: 37h 31m 54s
CCSL: B202
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.30/.50
GYROS: OFF

1200 RTLT 37h 32m 4s

0000 RTLT 37h 32m 14s

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 16 Page 29 of 19 NOV 17

ISSUE DATE: 11/08/23 08:04

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 17, 2023
321-322
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 1m 46s
CCSL: A129
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.40/.50
GYROS: OFF

1200 RTLT 45h 1m 54s

0000 RTLT 45h 2m 0s

NDATA #1 - DELINK UEPC (22:15) 0113▼

AACS FULMRO (22:55) 0153▼

U/L 0350 | - |
TLC (SHORT-FORM) | - - - - -

FDS MODE
XB DATA RATE(MI)

CR-5T
160(32)

31 DSN COVERAGE



32 DSN COVERAGE



S/C 32
INITIAL CONDITIONS
RTLT: 37h 32m 14s
CCSL: B202
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.30/.50
GYROS: OFF

1200 RTLT 37h 32m 24s

0000 RTLT 37h 32m 34s

FDS MODE
XB DATA RATE(MI)

CR-5T
160(32)

VGR COVERAGE

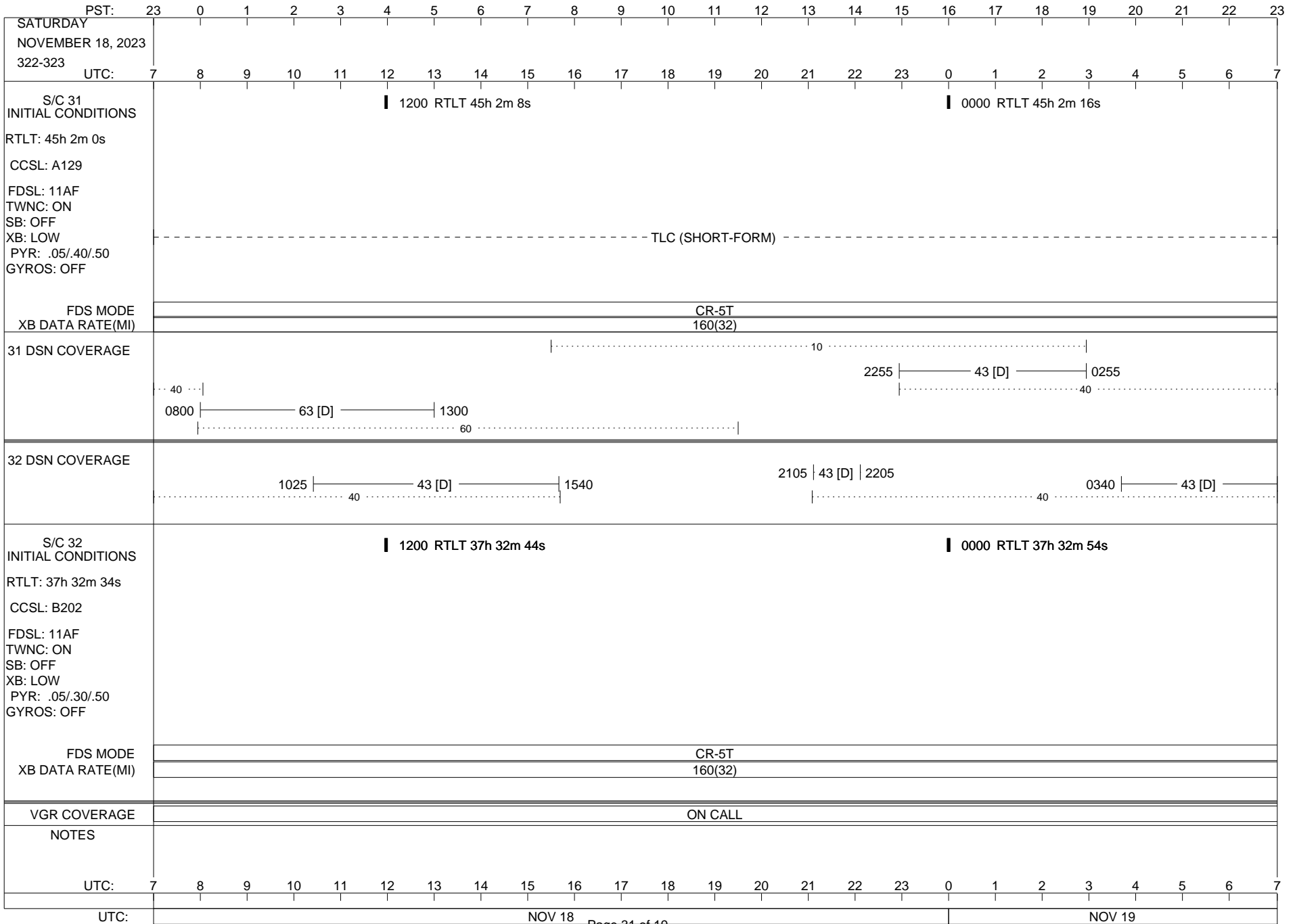
ON CALL

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 17 Page 30 of 19 NOV 18

ISSUE DATE: 11/08/23 08:04



ISSUE DATE: 11/08/23 08:04

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 19, 2023 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	1200 RTLT 45h 2m 22s												0000 RTLT 45h 2m 30s													
RTLT: 45h 2m 16s																										
CCSL: A129																										
FDSL: 11AF																										
TWNC: ON																										
SB: OFF																										
XB: LOW																										
PYR: .05/.40/.50																										
GYROS: OFF																										
FDS MODE	CR-5T												EL-40 2256						0055 CR-5T							
XB DATA RATE(MI)	160(32)												40(30)						160(32)							
31 DSN COVERAGE	<p>1525 14 [D] 1720</p> <p>1930 14 [D] 0250</p> <p>0755 63 [D] 1135</p> <p>40 60 40</p>																									
32 DSN COVERAGE	<p>43 [D] 1030</p> <p>40 40</p>																									
S/C 32 INITIAL CONDITIONS	1200 RTLT 37h 33m 2s												0000 RTLT 37h 33m 12s													
RTLT: 37h 32m 54s																										
CCSL: B202																										
FDSL: 11AF																										
TWNC: ON																										
SB: OFF																										
XB: LOW																										
PYR: .05/.30/.50																										
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:	NOV 19												NOV 20													

ISSUE DATE: 11/08/23 08:04

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 20, 2023
324-325
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 2m 30s
CCSL: A129
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.40/.50
GYROS: OFF

1200 RTLT 45h 2m 36s

0000 RTLT 45h 2m 44s

FDS MODE
XB DATA RATE(MI)

CR-5T

160(32)

31 DSN COVERAGE

1525 |-----| 14 [D] |-----| 1925

0750 |-----| 63 [D] |-----| 1350

32 DSN COVERAGE

0940 |-----| 43 [o] |-----| 1530

S/C 32
INITIAL CONDITIONS
RTLT: 37h 33m 12s
CCSL: B202
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.30/.50
GYROS: OFF

1200 RTLT 37h 33m 22s

0000 RTLT 37h 33m 32s

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 20 NOV 21