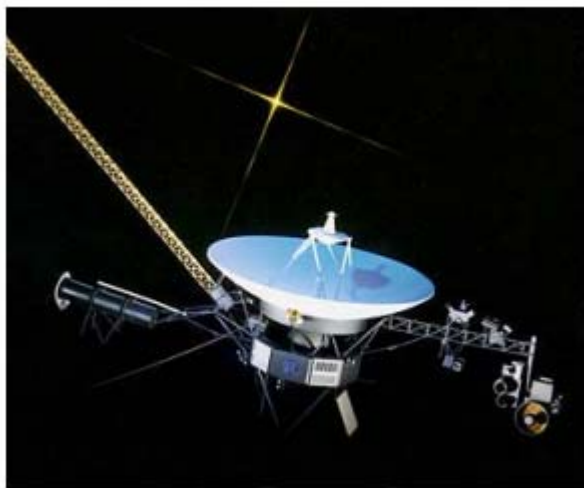


# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: November 3, 2021

For the Period: 11/04/21 to 11/22/21 (21/308 – 21/326)



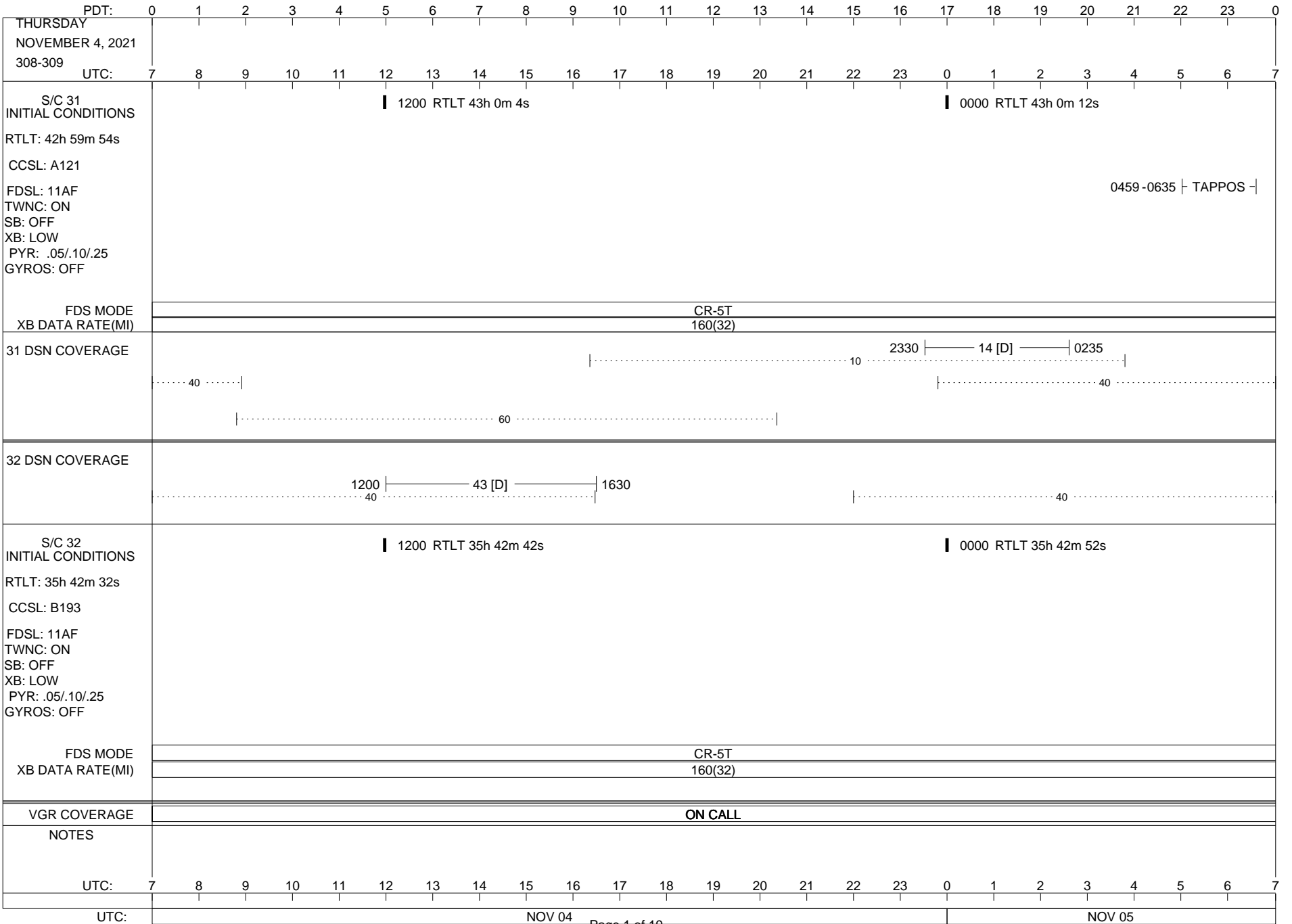
Posted at <https://voyager.jpl.nasa.gov/mission/status/>

**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: 12/02/21 08:36



ISSUE DATE: 12/02/21 08:36

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 NOVEMBER 5, 2021 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	7
S/C 31 INITIAL CONDITIONS RTLT: 43h 0m 12s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 43h 0m 20s												0000 RTLT 43h 0m 30s												
	0802   0802 PWS/RH 0813   TAPPOS   0934 ↓ 0801 GS-4B 0802												2348   - TAPPOS -   0153												
FDS MODE XB DATA RATE(MI)	CR-5T												CR-5T 160(32)												
31 DSN COVERAGE	.....40.....												2145  ----- 14 [D] -----  0340 .....10.....												
	----- 60 -----												----- 40 -----												
32 DSN COVERAGE	1225  ----- 43 [D] -----  1625 .....40.....												0020-0615  ----- 43 [H] -----   ----- 40 -----												
S/C 32 INITIAL CONDITIONS RTLT: 35h 42m 52s CCSL: B193 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 43m 4s												0000 RTLT 35h 43m 14s												
													▼ 0131 EL-40 (13:15) ▼ 0153 CCSL B194 (13:36) ▼ 0235 CCSTIM F/C (14:18) ▼ 0303 CR-5T (14:46)												
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 05												NOV 06												



ISSUE DATE: 12/02/21 08:36

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 7, 2021 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
S/C 31 INITIAL CONDITIONS RTLT: 43h 0m 46s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 43h 0m 56s												0000 RTLT 43h 1m 4s											
	0759   TAPPOS   0921 1102   1103 PWS/RH 1113   - - - -   1221 TAPPOS												1101 GS-4B 1103											
FDS MODE	CR-5T												CR-5T											
XB DATA RATE(MI)	160(32)												160(32)											
31 DSN COVERAGE	..... .....10..... .....												..... .....40..... .....											
	.....40..... .....60..... .....1635  ----- 63 [D] -----  2010																							
32 DSN COVERAGE	0745  ----- 43 [D] -----  1615												2300  ----- 43 [o] -----  0355											
	.....40..... .....												.....40..... .....											
S/C 32 INITIAL CONDITIONS RTLT: 35h 43m 34s CCSL: B193 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 43m 46s												0000 RTLT 35h 43m 56s											
	* 1346    1350 B194 CHKSUM												* 1419    1425 CCSTIM FINE 1436    1439 COARSE											
	* EL-40 1316 ↓												* ↓ 1447 CR-5T											
FDS MODE	CR-5T												EL-40											
XB DATA RATE(MI)	160(32)												40(30)											
													CR-5T											
													160(32)											
VGR COVERAGE	ON CALL												VGR											
													ON CALL											
NOTES	[1] S/C 32=EL-40 @ 1316 XB=40(30) [2] S/C 32=CR-5T @ 1447 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
UTC:	NOV 07																		NOV 08					

ISSUE DATE: 12/02/21 08:36

PST:	22	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 8, 2021 312-313																											
UTC:	6	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: 43h 1m 4s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 43h 1m 12s											0000 RTLTL 43h 1m 20s															
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)											CR-5T 160(32)															
31 DSN COVERAGE	1605  -----  14 [D]  -----  2000											10  -----  40															
32 DSN COVERAGE	1035  -----  43 [D]  -----  1610											40  -----  40															
S/C 32 INITIAL CONDITIONS RTLTL: 35h 43m 56s CCSL: B193 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 35h 44m 6s											0000 RTLTL 35h 44m 16s															
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																										
VGR COVERAGE	ON CALL											VGR					ON CALL										
NOTES																											
UTC:	6	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 08																		NOV 09								

ISSUE DATE: 12/02/21 08:36

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 9, 2021 313-314	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: 43h 1m 20s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 43h 1m 28s											0000 RTLT 43h 1m 36s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)											CR-5T 160(32)													
31 DSN COVERAGE	0830   63 [D]   1115											0030   14 [D]   0325													
32 DSN COVERAGE	0920   43 [D]   1555																								
S/C 32 INITIAL CONDITIONS RTLT: 35h 44m 16s CCSL: B193 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 44m 28s											0000 RTLT 35h 44m 38s													
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 09											NOV 10													

ISSUE DATE: 12/02/21 08:36

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 10, 2021 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: 43h 1m 36s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 43h 1m 44s												0000 RTLT 43h 1m 52s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	1705  ----- 14 [D] -----  2230												----- 10 -----												
	----- 40 -----												----- 40 -----												
	----- 60 -----																								
32 DSN COVERAGE	1135  ----- 43 [D] -----  1535												2210  ----- 43 [H1oB] -----  0335												
	----- 40 -----												----- 40 -----												
S/C 32 INITIAL CONDITIONS RTLT: 35h 44m 38s CCSL: B193 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 44m 48s												0000 RTLT 35h 44m 58s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE	ON CALL												VGR						ON CALL						
NOTES	[1] B194 BACKUP U/L TRACK, HP TRX DRV ON >= 23:03																								
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												





ISSUE DATE: 12/02/21 08:36

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 12, 2021  
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: 43h 2m 8s  
CCSL: A121  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

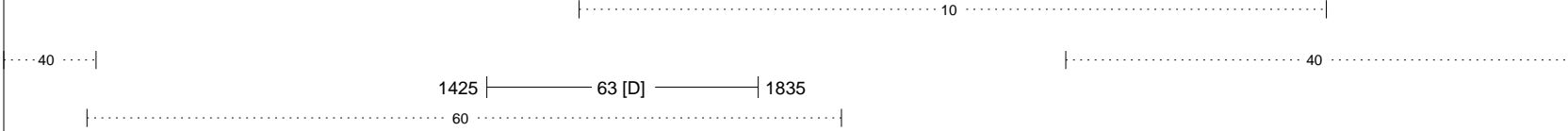
1200 RTLT 43h 2m 16s 0000 RTLT 43h 2m 24s

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: 35h 45m 20s  
CCSL: B193  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLT 35h 45m 30s 0000 RTLT 35h 45m 40s

FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

VGR COVERAGE

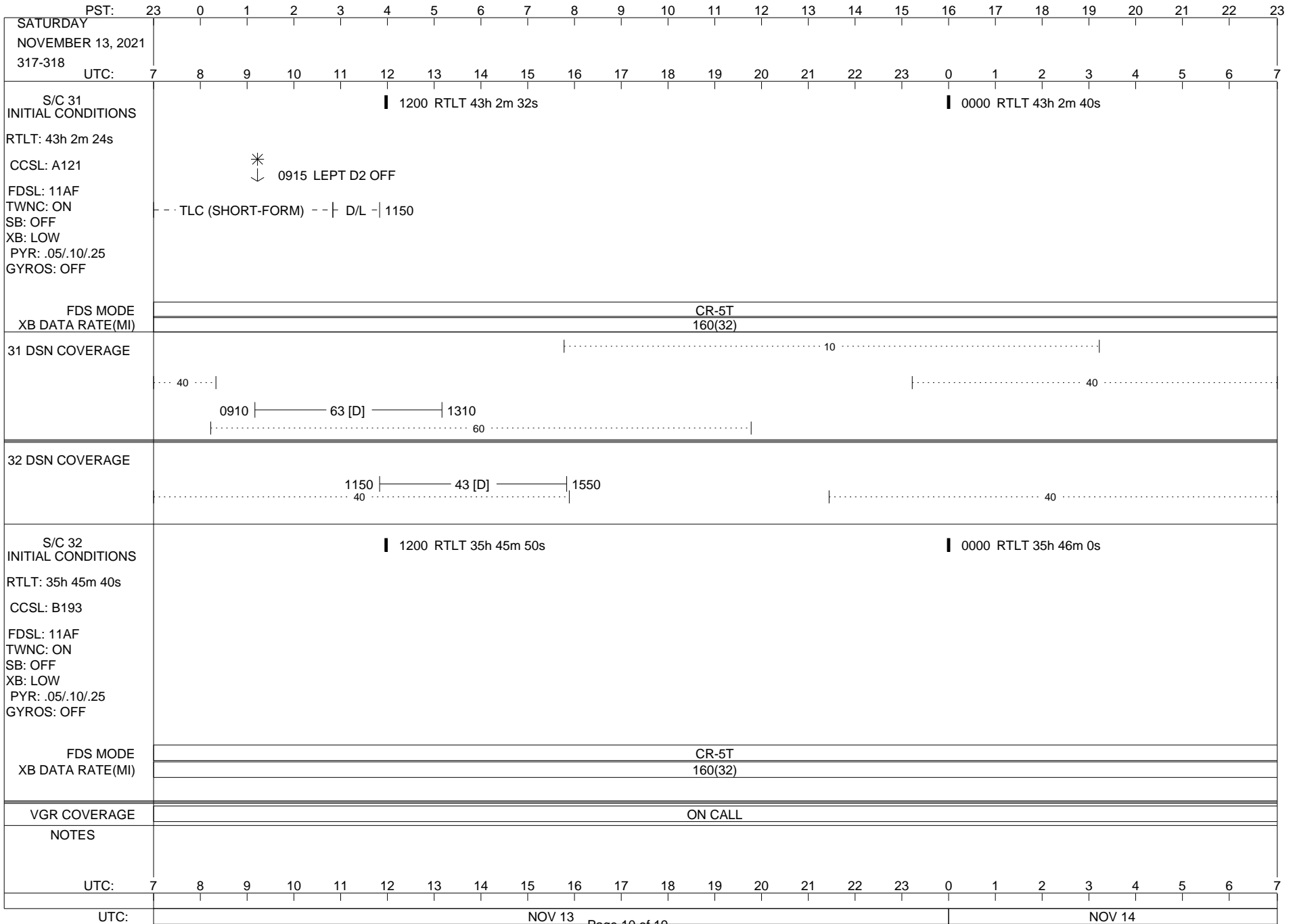
ON CALL

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 12 Page 9 of 19 NOV 13

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ISSUE DATE: 12/02/21 08:36

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 14, 2021  
318-319  
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: 43h 2m 40s  
CCSL: A121  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLT 43h 2m 48s

0000 RTLT 43h 2m 56s

FDS MODE  
XB DATA RATE(MI)

CR-5T

160(32)



S/C 32  
INITIAL CONDITIONS  
RTLT: 35h 46m 0s  
CCSL: B193  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLT 35h 46m 10s

0000 RTLT 35h 46m 20s

FDS MODE  
XB DATA RATE(MI)

CR-5T

160(32)

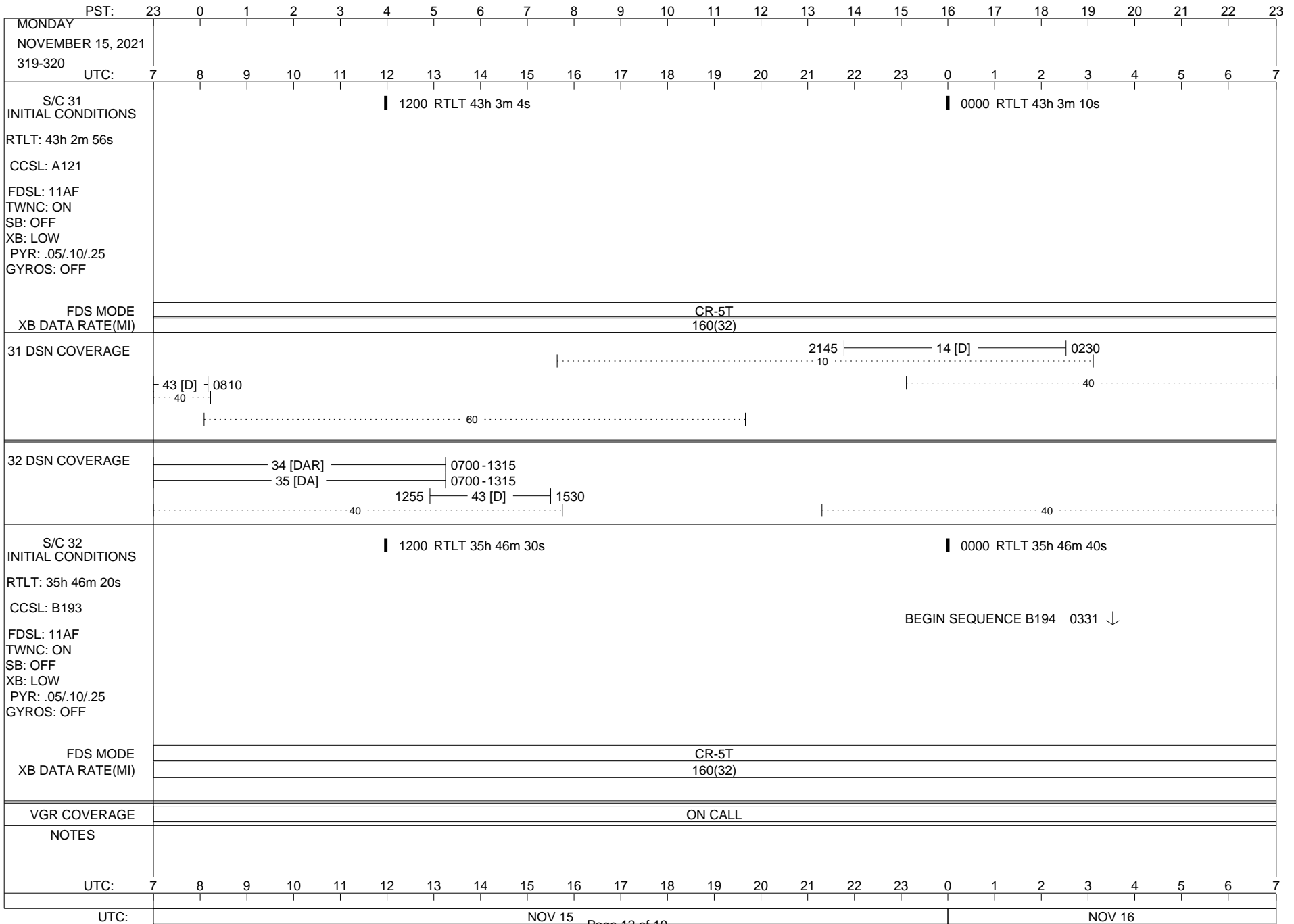
VGR COVERAGE  
ON CALL

NOTES

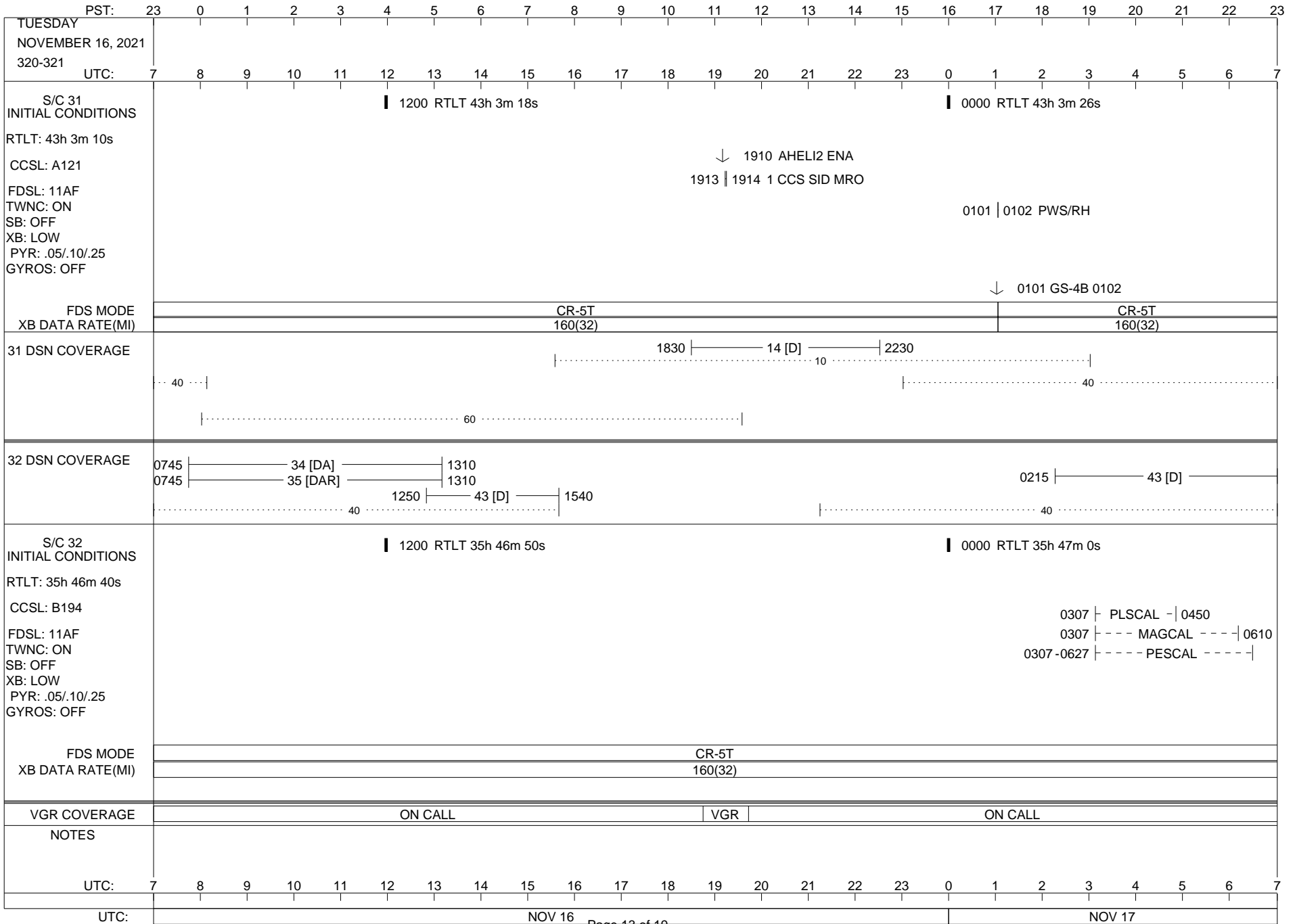
UTC: 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7

UTC: NOV 14 Page 11 of 19 NOV 15

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ISSUE DATE: 12/02/21 08:36



ISSUE DATE: 12/02/21 08:36

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 17, 2021  
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: 43h 3m 26s  
CCSL: A121  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLT 43h 3m 34s

0000 RTLT 43h 3m 40s

1756 | | 1812 SHUNT POWER TEST

FDS MODE  
XB DATA RATE(MI)

CR-5T

160(32)

31 DSN COVERAGE  
40  
1600 | 63 [D] | 1930  
60

32 DSN COVERAGE  
0710 43 [D]  
1135 | 43 [D] | 1535  
40

S/C 32  
INITIAL CONDITIONS  
RTLT: 35h 47m 0s  
CCSL: B194  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLT 35h 47m 10s

0000 RTLT 35h 47m 20s

FDS MODE  
XB DATA RATE(MI)

CR-5T

160(32)

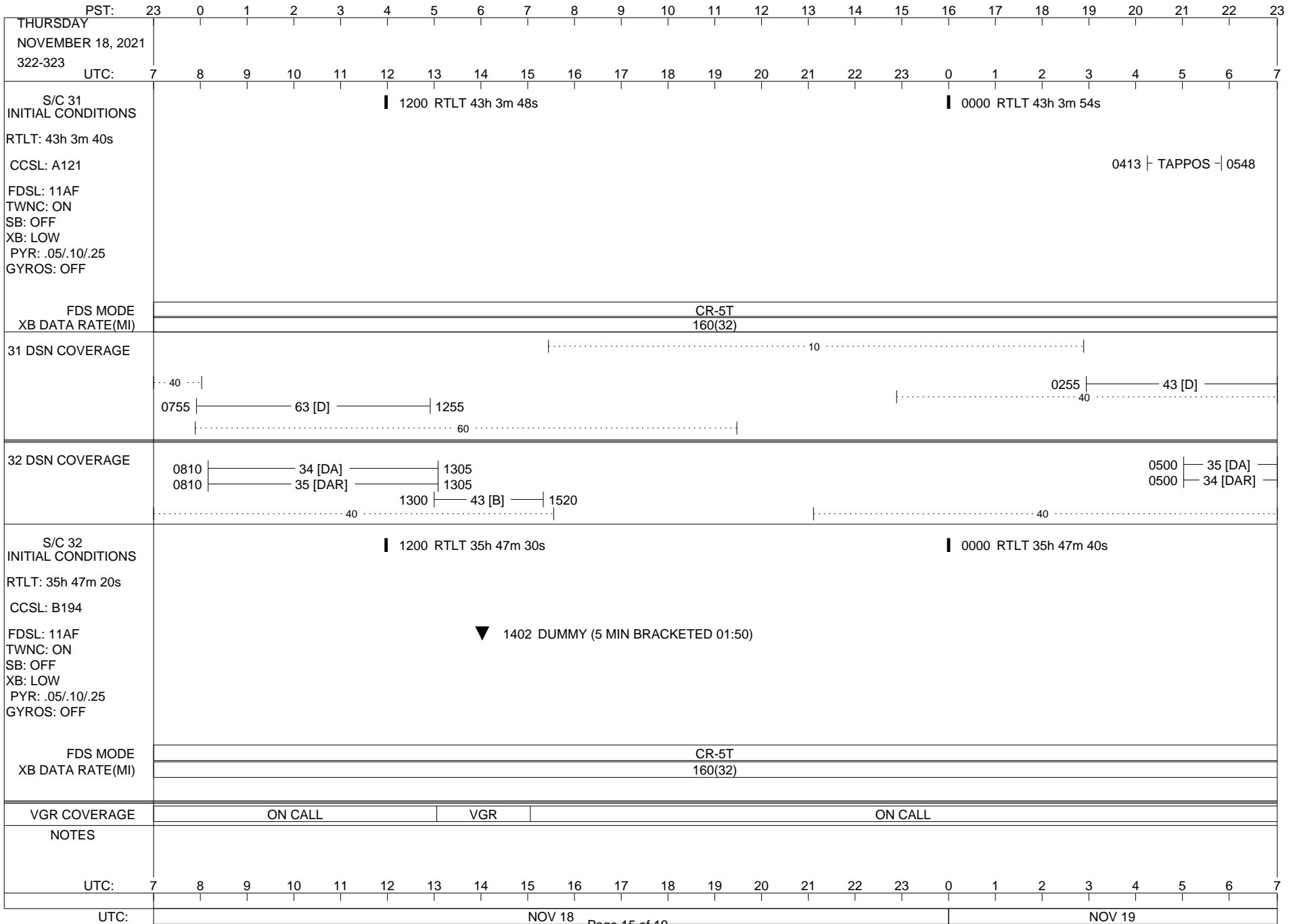
VGR COVERAGE  
ON CALL

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 NOV 18

ISSUE DATE: 12/02/21 08:36





ISSUE DATE: 12/02/21 08:36

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 19, 2021  
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: 43h 3m 54s  
CCSL: A121  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF  
1200 RTLT 43h 4m 2s  
0000 RTLT 43h 4m 10s  
0716-0716 PWS/RH  
TAPPOS 0727-0848  
CCS DIAG (23:59) 0455▼  
U/L 0520 | - |  
TLC (SHORT-FORM) | - - - - |  
0715 GS-4B 0716

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

31 DSN COVERAGE  
0755 43 [D]  
1600 63 [D] 1900  
0405 43 [T]  
60

32 DSN COVERAGE  
35 [DA] 1300  
34 [DAR] 1300  
1240 43 [D] 1530  
2105 43 [o] 0300  
40

S/C 32  
INITIAL CONDITIONS  
RTLT: 35h 47m 40s  
CCSL: B194  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF  
1200 RTLT 35h 47m 50s  
0000 RTLT 35h 48m 0s

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

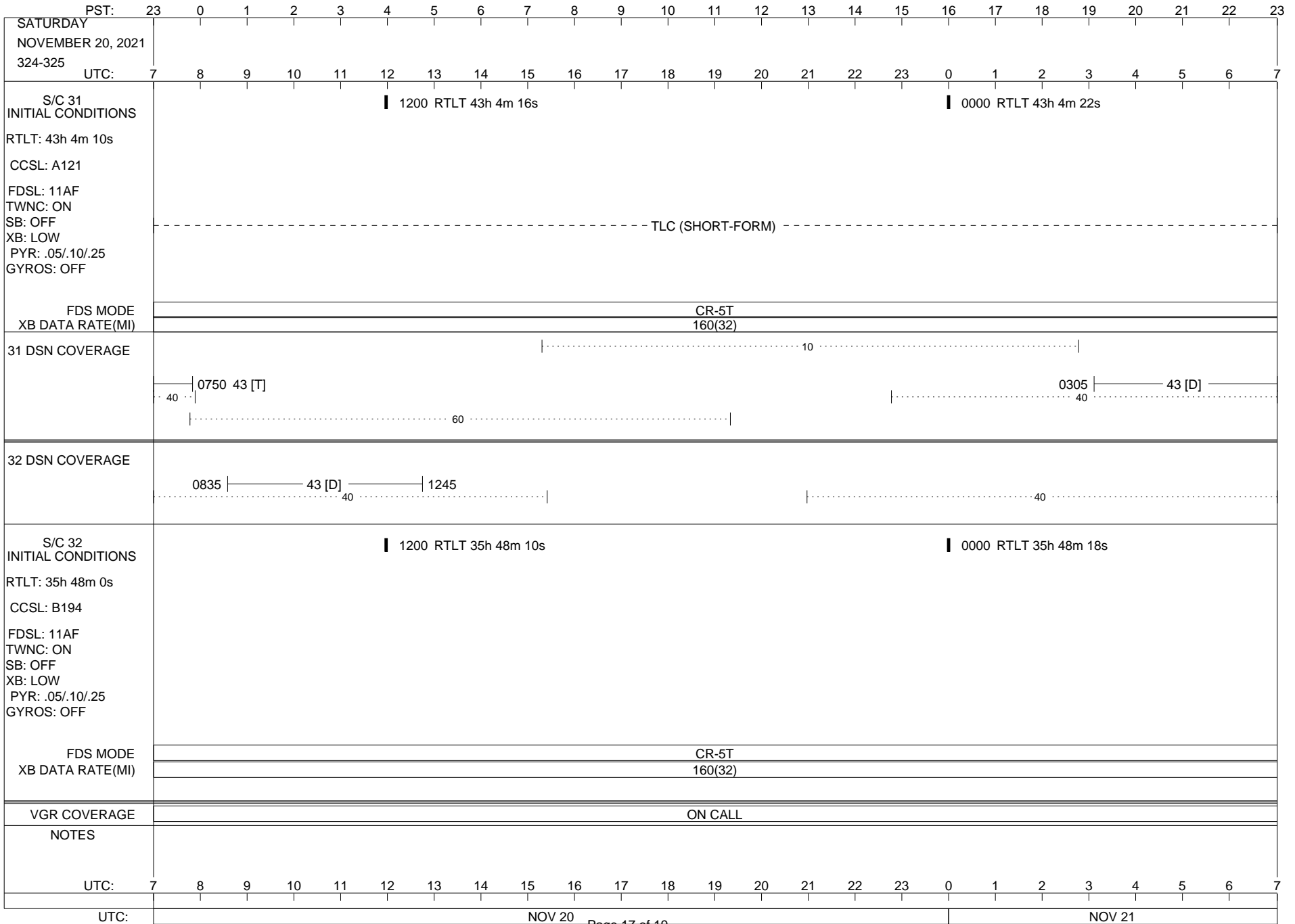
VGR COVERAGE  
ON CALL  
VGR ON CALL

NOTES

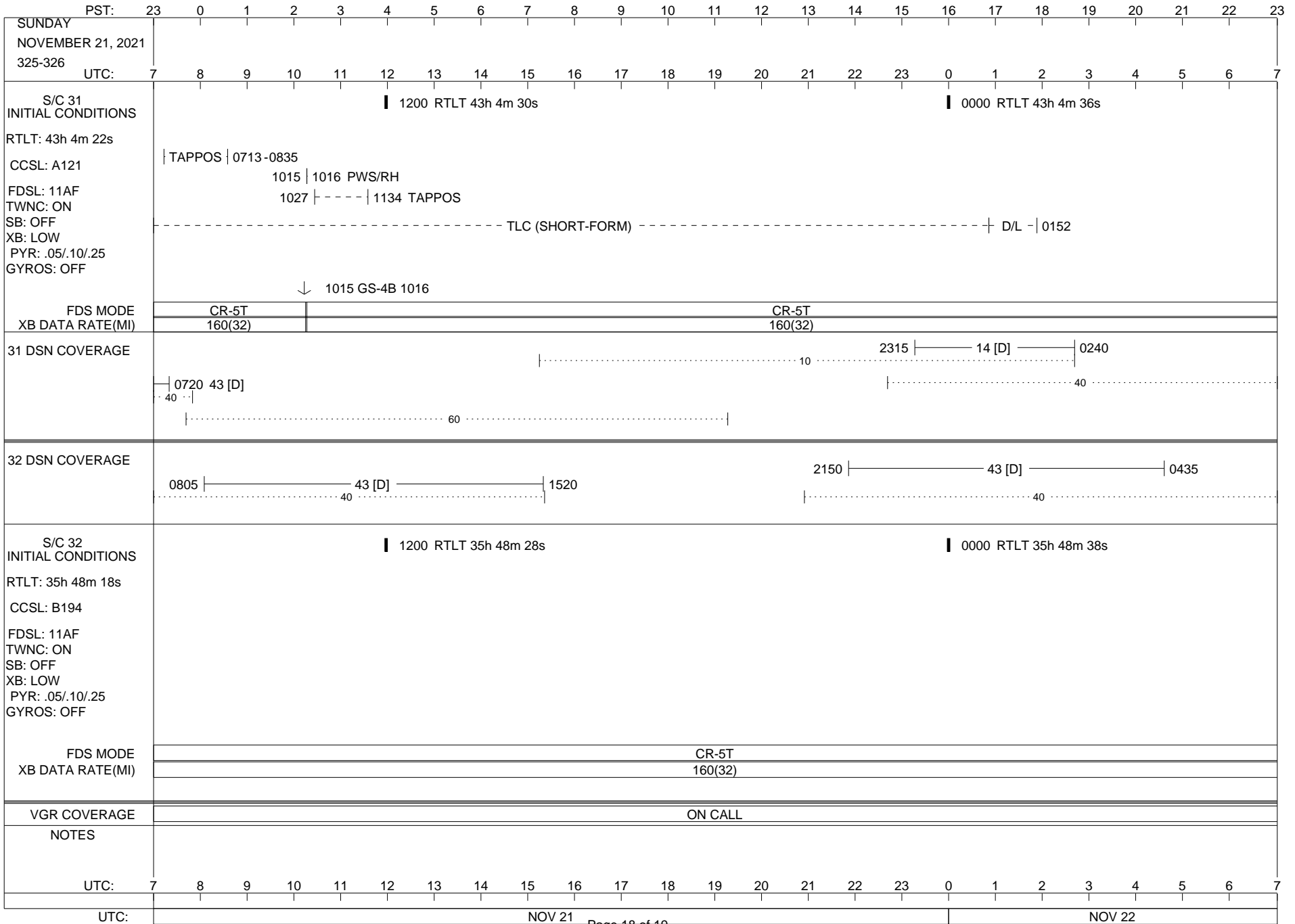
UTC: 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7

UTC: NOV 19 NOV 20

ISSUE DATE: 12/02/21 08:36



ISSUE DATE: 12/02/21 08:36



ISSUE DATE: 12/02/21 08:36

