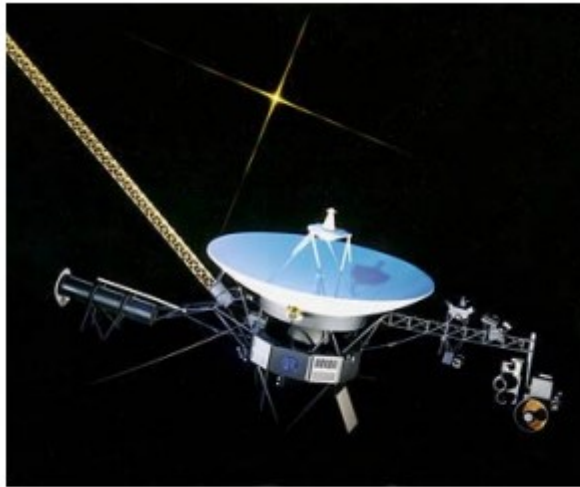


VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: November 13, 2019

For the Period: 11/14/19 to 12/02/19 (19/318 – 19/336)



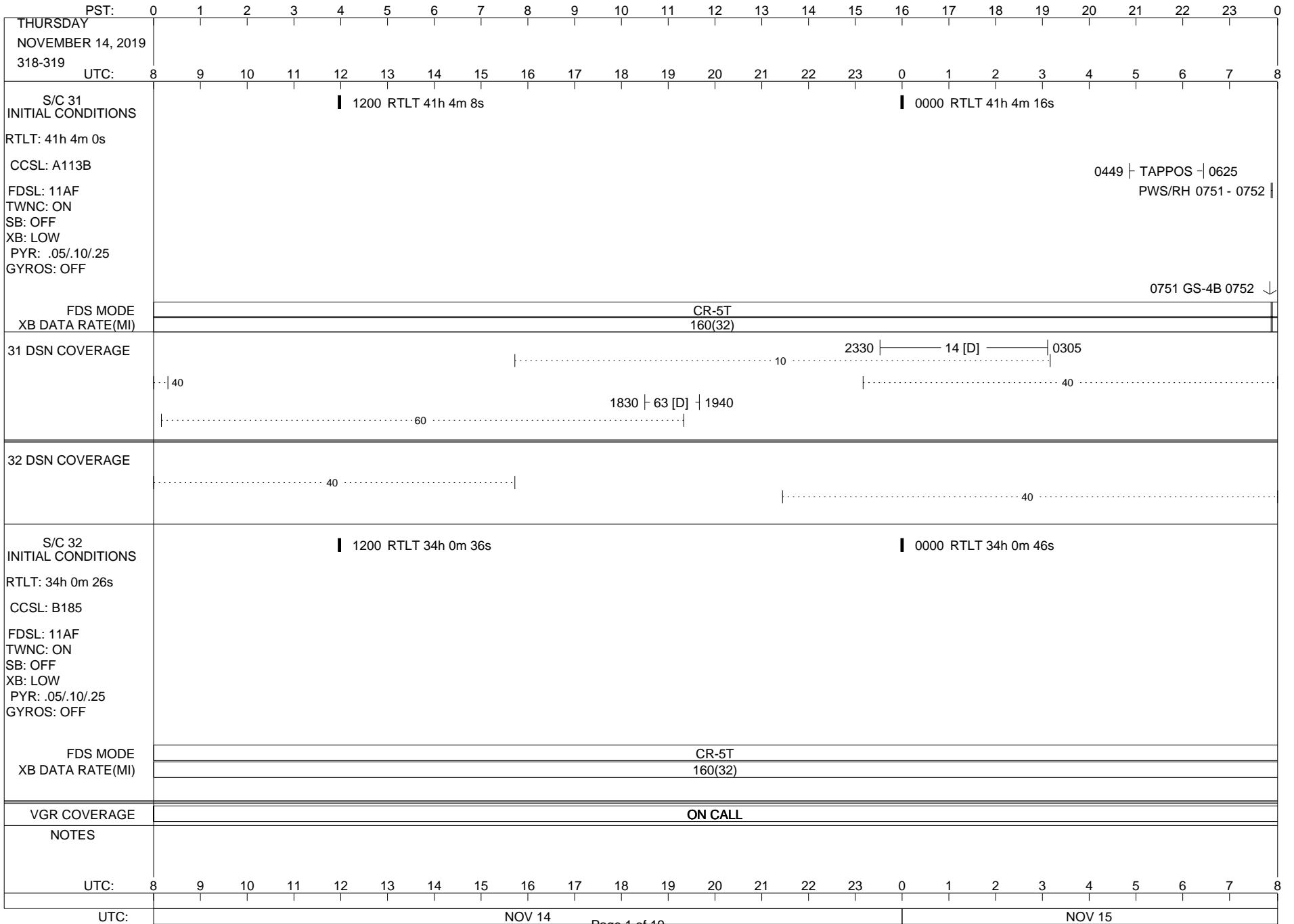
Posted at <https://voyager.jpl.nasa.gov/mission/status/>

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

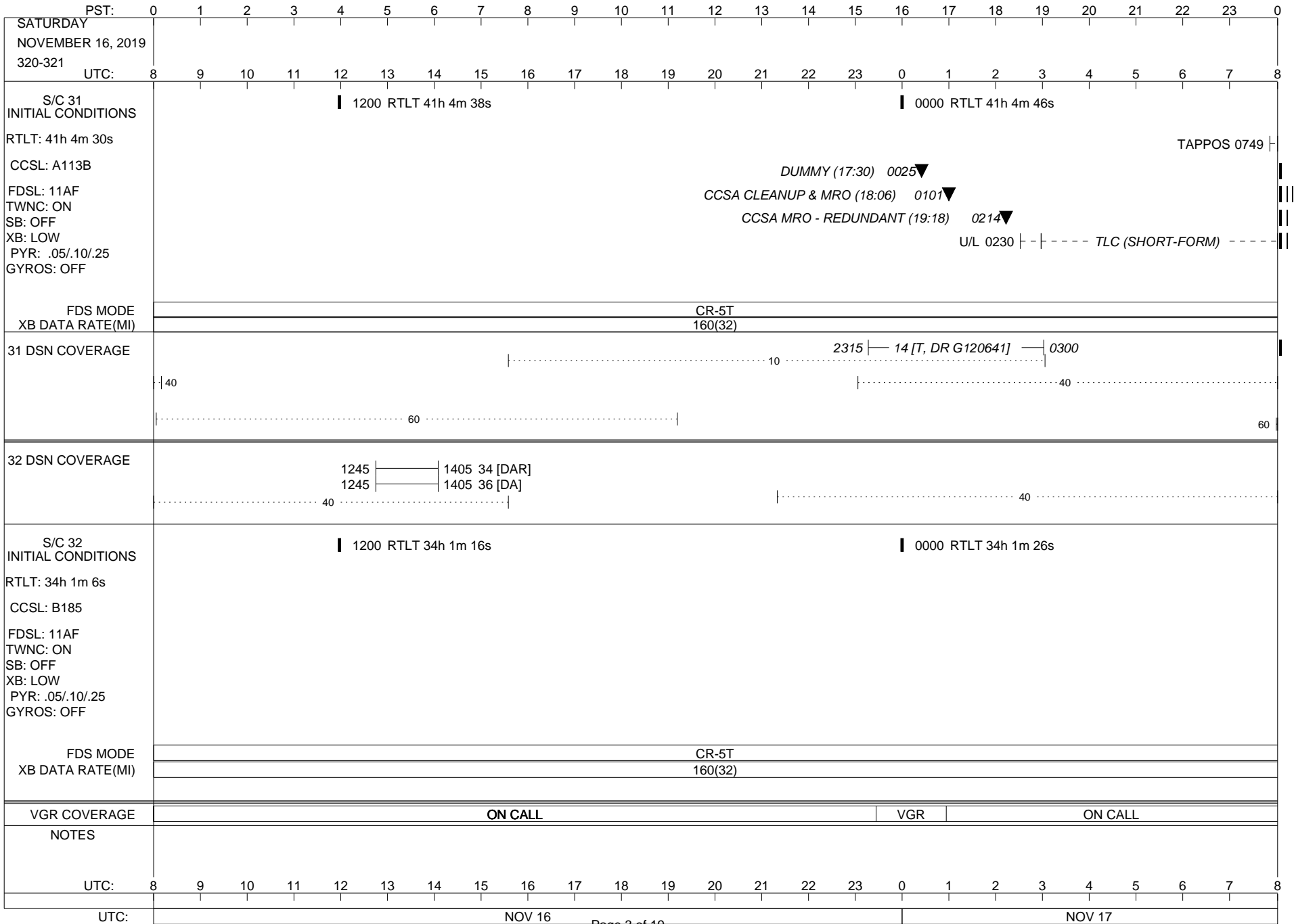
ISSUE DATE: 11/20/19 09:29



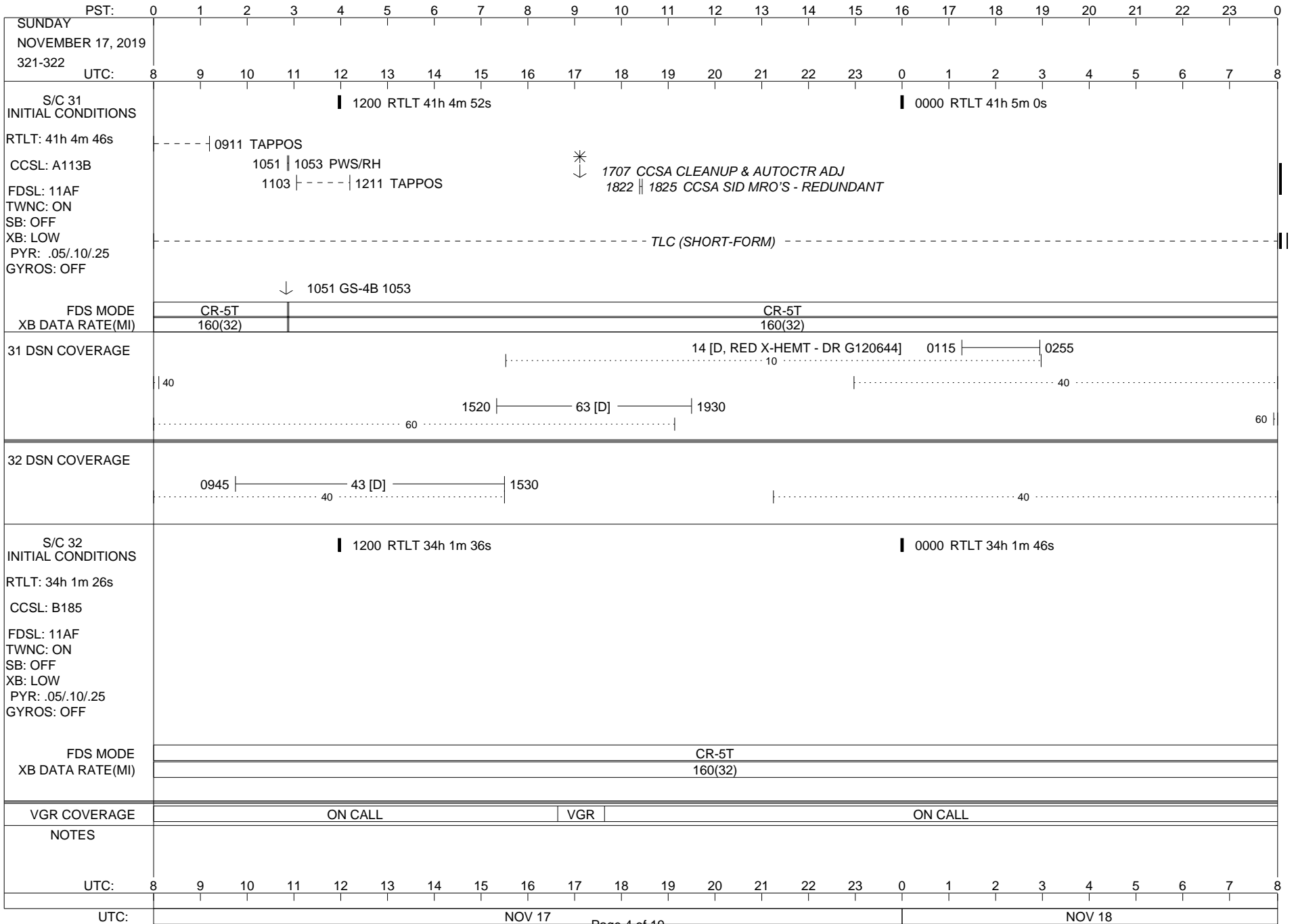
ISSUE DATE: 11/20/19 09:29

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FRIDAY NOVEMBER 15, 2019 319-320																													
UTC:		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8			
S/C 31 INITIAL CONDITIONS		1200 RTLT 41h 4m 22s												0000 RTLT 41h 4m 30s															
RTLT: 41h 4m 16s																													
CCSL: A113B																													
FDSL: 11AF																													
TWNC: ON																													
SB: OFF																													
XB: LOW																													
PYR: .05/.10/.25																													
GYROS: OFF																													
TAPPOS 0803 - 0924																													
2325 DUMMY (16:30)																													
0001 CCSA CLEANUP & AUTOCTR ADJ (17:06)																													
0114 CCSA MRO - REDDUNDANT (19:18)																													
FDS MODE		CR-5T																											
XB DATA RATE(MI)		160(32)																											
31 DSN COVERAGE		<p>2300 14 [DR G120639] 0305</p> <p>40 40</p> <p>60</p>																											
32 DSN COVERAGE		<p>1140 43 [D] 1540</p> <p>2230 43 [1o] 0245</p> <p>40 40</p>																											
S/C 32 INITIAL CONDITIONS		1200 RTLT 34h 0m 56s												0000 RTLT 34h 1m 6s															
RTLT: 34h 0m 46s																													
CCSL: B185																													
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																											
NOTES		[1] B186 BACKUP U/L SUPPORT																											
UTC:		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8			
UTC:		NOV 15																NOV 16											

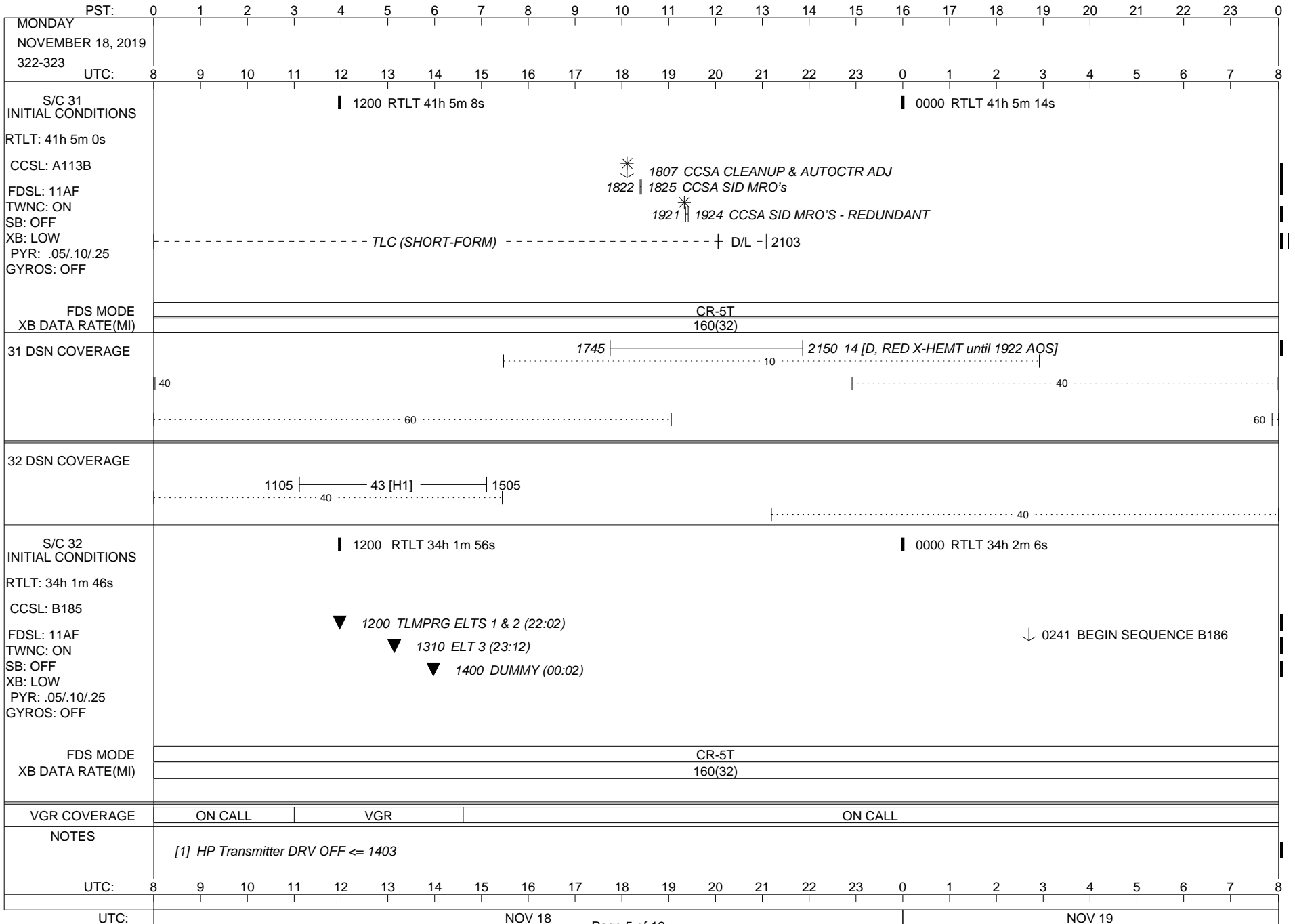
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ISSUE DATE: 11/20/19 09:29

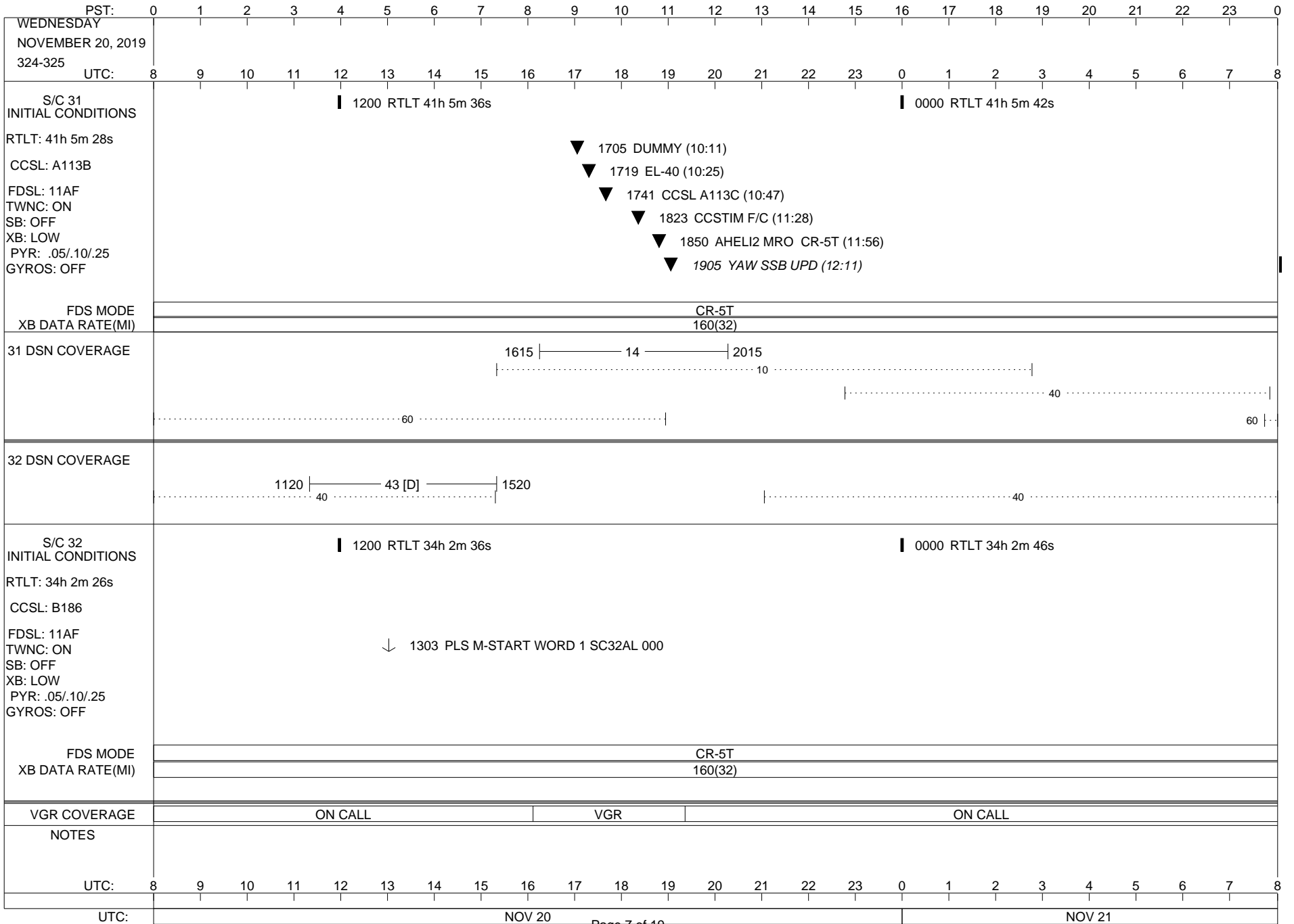


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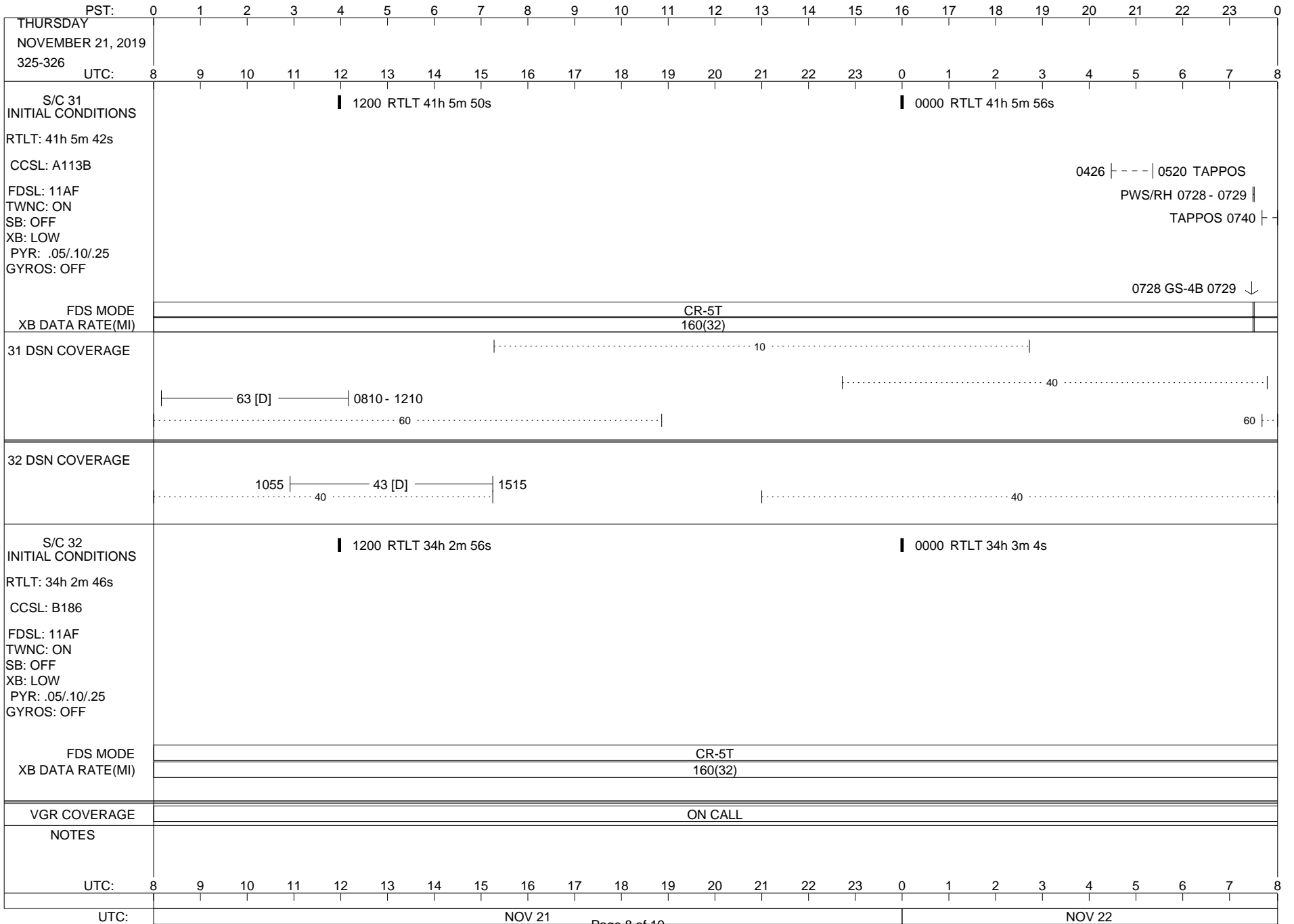


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TUESDAY NOVEMBER 19, 2019 323-324																									
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLTL: 41h 5m 14s CCSL: A113B FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 41h 5m 22s												0000 RTLTL 41h 5m 28s												
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: 34h 2m 6s CCSL: B186 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 34h 2m 16s												0000 RTLTL 34h 2m 26s												
FDS MODE	CR-5T												EL-40				2351 CR-5T								
XB DATA RATE(MI)	160(32)												40(30)				160(32)								
VGR COVERAGE	ON CALL												VGR				ON CALL								
NOTES	[1] S/C 31=EL-40 @ 2128 XB=40(30) [2] S/C 31=CR-5T @ 2351 XB=160(32) [3] TLMPRG BACKUP U/L TRACK																								
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
UTC:	NOV 19																NOV 20								

ISSUE DATE: 11/20/19 09:29

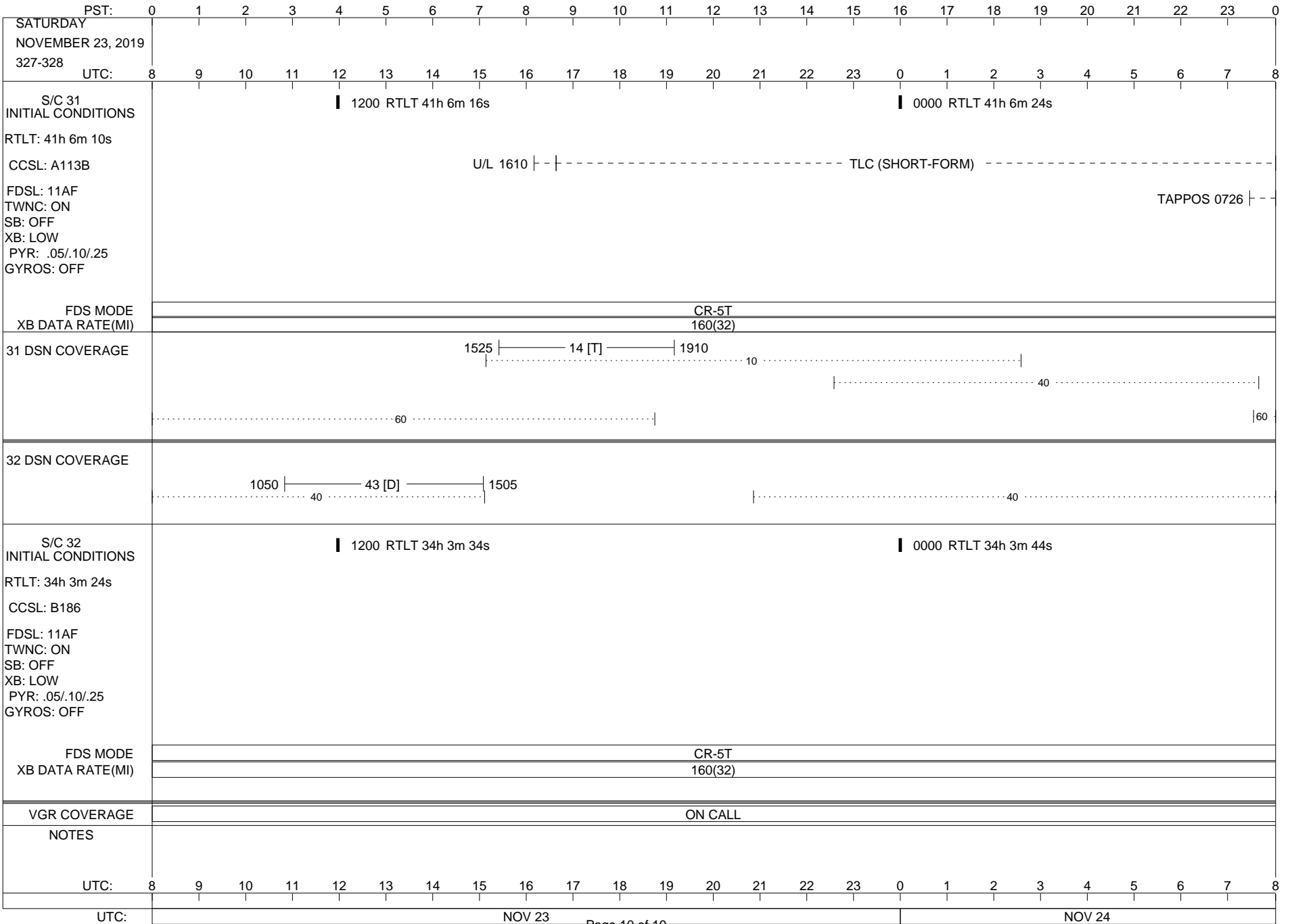


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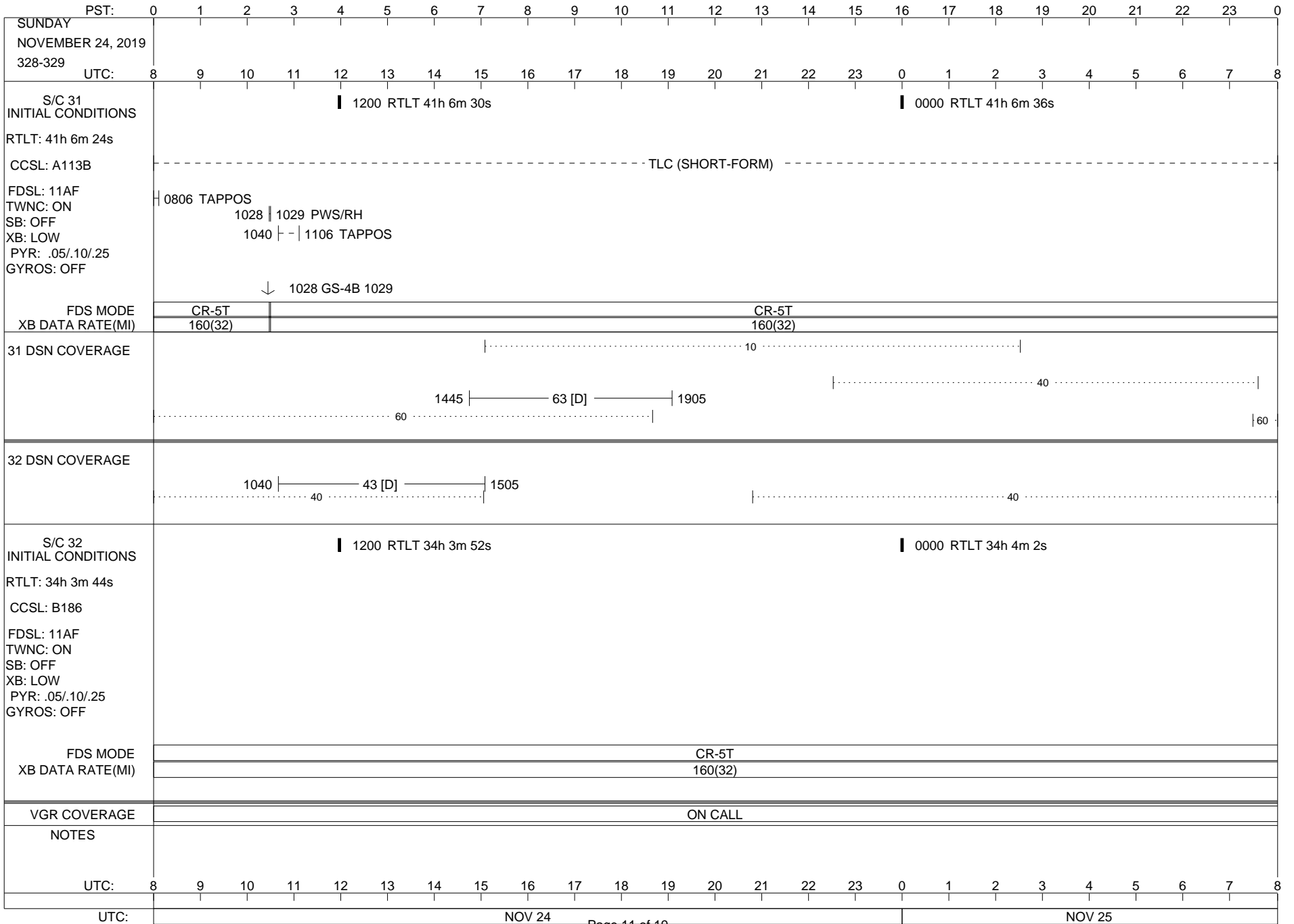


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FRIDAY NOVEMBER 22, 2019 326-327																									
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS	1200 RTLT 41h 6m 4s												0000 RTLT 41h 6m 10s												
RTLT: 41h 5m 56s	<p>1053 * 1057 A113C CHKSUM</p> <p>1129 * 1136 CCSTIM FINE</p> <p>1148 * 1151 COARSE</p> <p>0820 TAPPOS 1157 * 1159 AHEL12 SID MRO'S</p> <p>1212 YAW SSB UPD</p> <p>EL-40 1025 * 1200 CR-5T</p>																								
CCSL: A113B																									
FDSL: 11AF																									
TWNC: ON																									
SB: OFF																									
XB: LOW																									
PYR: .05/10/.25																									
GYROS: OFF																									
FDS MODE	CR-5T								EL-40								CR-5T								
XB DATA RATE(MI)	160(32)								40(30)								160(32)								
31 DSN COVERAGE	<p>..... 10 </p> <p> ----- 63 [D] ----- 0835 - 1235 1810 63 [D] 1910 40 </p> <p>..... 60 </p>																								
32 DSN COVERAGE	<p> ----- 43 [D] ----- 0830 - 1325 40 </p>																								
S/C 32 INITIAL CONDITIONS	1200 RTLT 34h 3m 14s												0000 RTLT 34h 3m 24s												
RTLT: 34h 3m 4s																									
CCSL: B186																									
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	<p>[1] S/C 31=EL-40 @ 1025 XB=40(30)</p> <p>[2] S/C 31=CR-5T @ 1200 XB=160(32)</p>																								
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
UTC:	NOV 22																NOV 23								

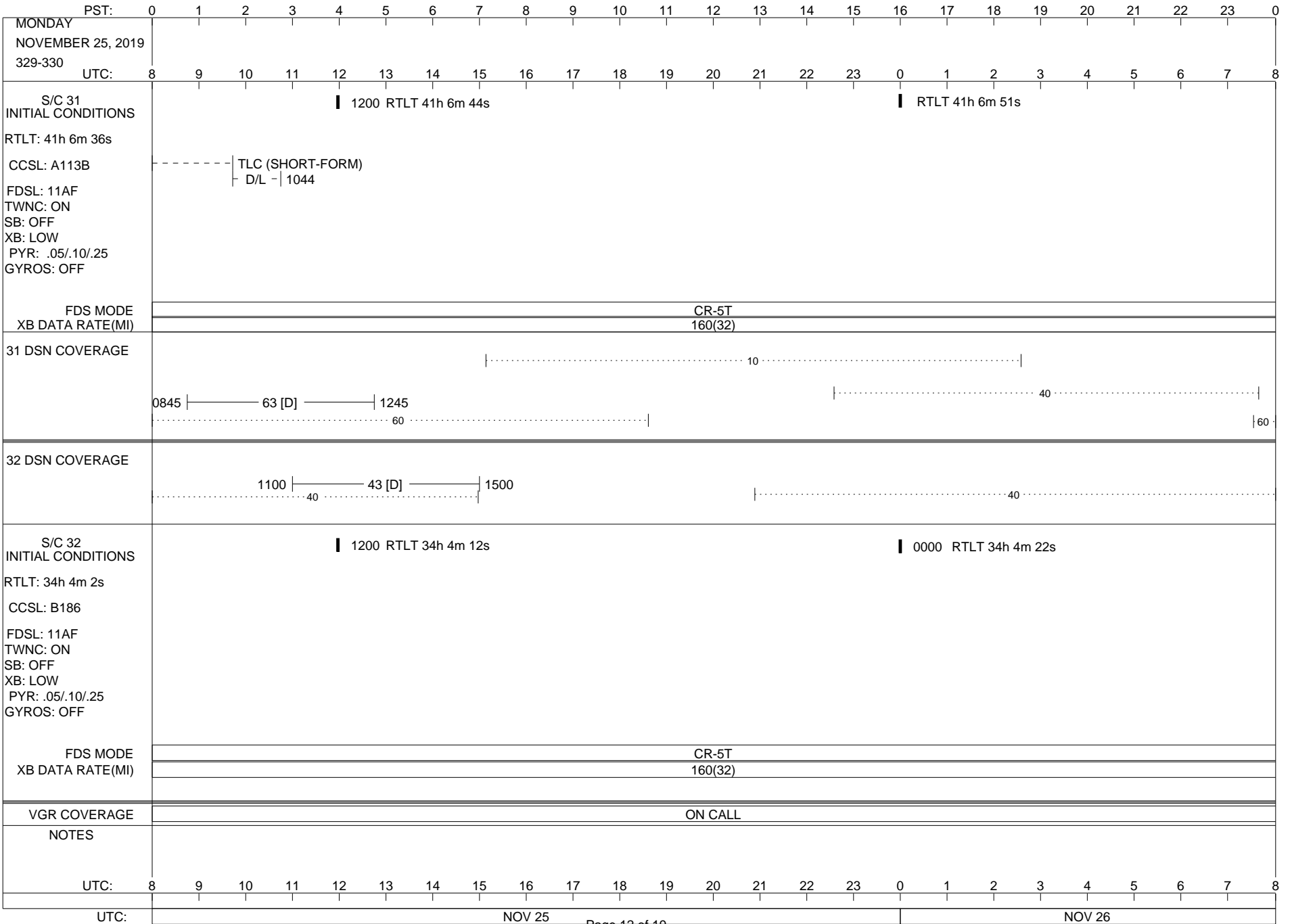
ISSUE DATE: 11/20/19 09:29



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PST:	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 NOVEMBER 26, 2019 330-331																											
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8		
S/C 31 INITIAL CONDITIONS RTLTL: 41h 6m 44s CCSL: A113B FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	RTLT 41h 6m 57s											0000 RTLT 41h 7m 2s															
FDS MODE	CR-5T													CR-5T													
XB DATA RATE(MI)	160(32)													160(32)													
31 DSN COVERAGE	<p>..... 10 </p> <p>1425 ----- 63 [D] ----- 1855 40 </p> <p>..... 60 60</p>																										
32 DSN COVERAGE	<p>..... 40 40</p>																										
S/C 32 INITIAL CONDITIONS RTLTL: 34h 4m 22s CCSL: B186 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	RTLT 34h 4m 31s											0000 RTLT 34h 4m 40s															
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
VGR COVERAGE	ON CALL																										
NOTES																											
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8		
UTC:	NOV 26													NOV 27													

ISSUE DATE: 11/20/19 09:29

PST:		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																													
NOVEMBER 27, 2019																													
331-332																													
UTC:		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8			
S/C 31 INITIAL CONDITIONS		█ 1200 RTLT 41h 7m 8s														█ 0000 RTLT 41h 7m 14s													
RTLTL: 41h 7m 2s																													
CCSL: A113B																													
FDSL: 11AF																													
TWNC: ON																													
SB: OFF																													
XB: LOW																													
PYR: .05/.10/.25																													
GYROS: OFF																													
FDS MODE																CR-5T													
XB DATA RATE(MI)																160(32)													
31 DSN COVERAGE																													
32 DSN COVERAGE																													
S/C 32 INITIAL CONDITIONS		█ 1200 RTLT 34h 4m 48s														█ 0000 RTLT 34h 4m 58s													
RTLTL: 34h 4m 40s																													
CCSL: B186																													
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:		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8			
UTC:		NOV 27														NOV 28													

ISSUE DATE: 11/20/19 09:29

PST:	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 28, 2019 332-333																									
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLTL: 41h 7m 14s CCSL: A113B FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 41h 7m 20s												0000 RTLTL 41h 7m 26s												
FDS MODE	CR-5T																								
XB DATA RATE(MI)	160(32)																								
31 DSN COVERAGE	<p>2215 ----- 14 [D] ----- 0215</p> <p>1715 ----- 63 [D] ----- 1845</p> <p>0935 ----- 43 [D] ----- 1420</p>																								
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS RTLTL: 34h 4m 58s CCSL: B186 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 34h 5m 8s												0000 RTLTL 34h 5m 16s												
FDS MODE	CR-5T																								
XB DATA RATE(MI)	160(32)																								
VGR COVERAGE	ON CALL																								
NOTES	JPL HOLIDAY!																								
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
UTC:	NOV 28												NOV 29												

ISSUE DATE: 11/20/19 09:29

PST:	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 NOVEMBER 30, 2019 334-335	UTC: 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLTL: 41h 7m 38s CCSL: A113B FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 41h 7m 44s												0000 RTLTL 41h 7m 50s												
FDS MODE												CR-5T													
XB DATA RATE(MI)												160(32)													
31 DSN COVERAGE60.....											40.....												
.....60.....											40.....													
32 DSN COVERAGE40.....											40.....												
S/C 32 INITIAL CONDITIONS RTLTL: 34h 5m 34s CCSL: B186 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 34h 5m 44s												0000 RTLTL 34h 5m 52s												
FDS MODE												CR-5T													
XB DATA RATE(MI)												160(32)													
VGR COVERAGE	ON CALL																								
NOTES																									
UTC: 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	
UTC:	NOV 30												DEC 01												

PST:	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 DECEMBER 1, 2019 335-336																												
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8			
S/C 31 INITIAL CONDITIONS	1200 RTLT 41h 7m 56s												0000 RTLT 41h 8m 2s															
RTLT: 41h 7m 50s																												
CSSL: A113B																												
FDSL: 11AF	--- TLC (SHORT-FORM) --- + D/L - 1306																											
TWNC: ON																												
SB: OFF																												
XB: LOW																												
PYR: .05/10/25																												
GYROS: OFF																												
	1004 1006 PWS/RH																											
	1016 1032 TAPPOS																											
	↓ 1004 GS-4B 1006																											
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	1200 RTLT 34h 6m 2s												0000 RTLT 34h 6m 10s															
RTLT: 34h 5m 52s																												
CSSL: B186																												
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																											
NOTES																												
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8			
UTC:	DEC 01														DEC 02													

ISSUE DATE: 11/20/19 09:29

PST:	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 DECEMBER 2, 2019 336-337																									
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLTL: 41h 8m 2s CCSL: A113B FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLTL 41h 8m 8s</p> </div>																								
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	<div style="text-align: center;"> <p>1755 ----- 14 [D] ----- 2155</p> <p>..... 60</p> </div>																								
32 DSN COVERAGE	<div style="text-align: center;"> <p>1030 ----- 43 [D] ----- 1430</p> <p>..... 40</p> </div>																								
S/C 32 INITIAL CONDITIONS RTLTL: 34h 6m 10s CCSL: B186 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLTL 34h 6m 18s</p> </div>																								
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE	ON CALL																								
NOTES																									
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
UTC:	DEC 02												DEC 03												