

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: November 1, 2017

For the Period: 11/2/17 to 11/20/17 (17/306 – 17/324)

DSN OPSCHIEF	230-102	SCIENCE	FLIGHT TEAM	600-100
DSOT	230-102	CRS bryant@mail630.gsfc.nasa.gov LECP r.decker@jhuapl.edu MAG u2mha@lepvax.gsfc.nasa.gov PLS vgr@space.mit.edu PWS wsk@space.physics.uiowa.edu Leonard.F.Burlaga@nasa.gov Donald-Gurnett@uiowa.edu	Dodd, S. Hall, J. Howard, S. Ko, A. Ledeboer, W. Ludwig, R. Matsumoto, S. Medina, E. Peralta, F. Weeks, T. Yang, L.	

**LEGEND:**

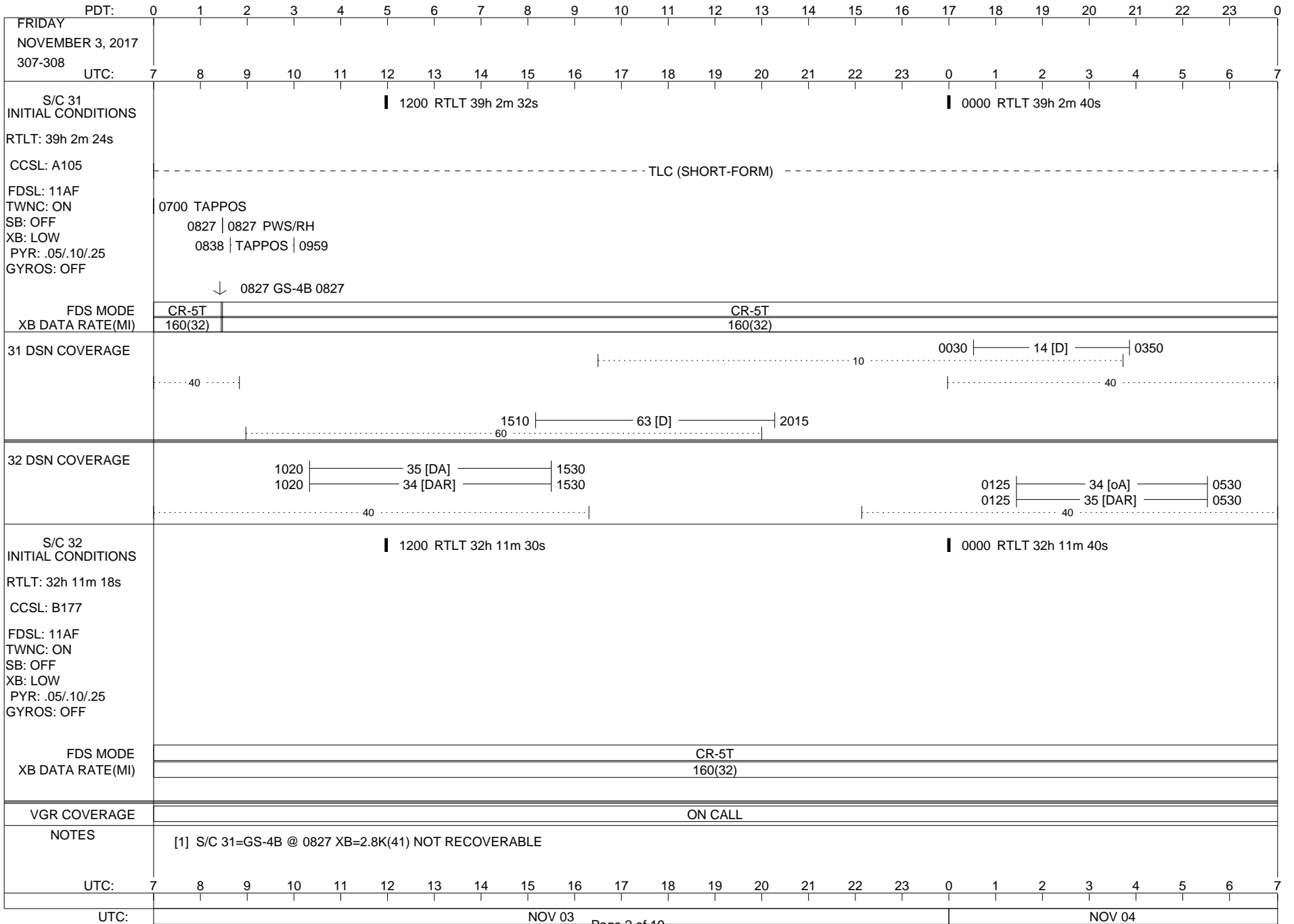
- ∇ = R/T Command (Last chance or Contingency)
- ▼ = R/T Command (Scheduled)
- \* = Result of R/T Command
- n = (where n = 1,2,3 ..) Special Note, see bottom of page
- A = Arrayed station
- B = BLF
- D = Downlink only pass
- H = High Power Transmitter
- R = Array Reference Antenna
- T = TLC Uplink
- U = Uplink only pass
- [o] = Ramp-through

Posted at [http://voyager.jpl.nasa.gov/mission/soesfos/tracking\\_schedule.html](http://voyager.jpl.nasa.gov/mission/soesfos/tracking_schedule.html)

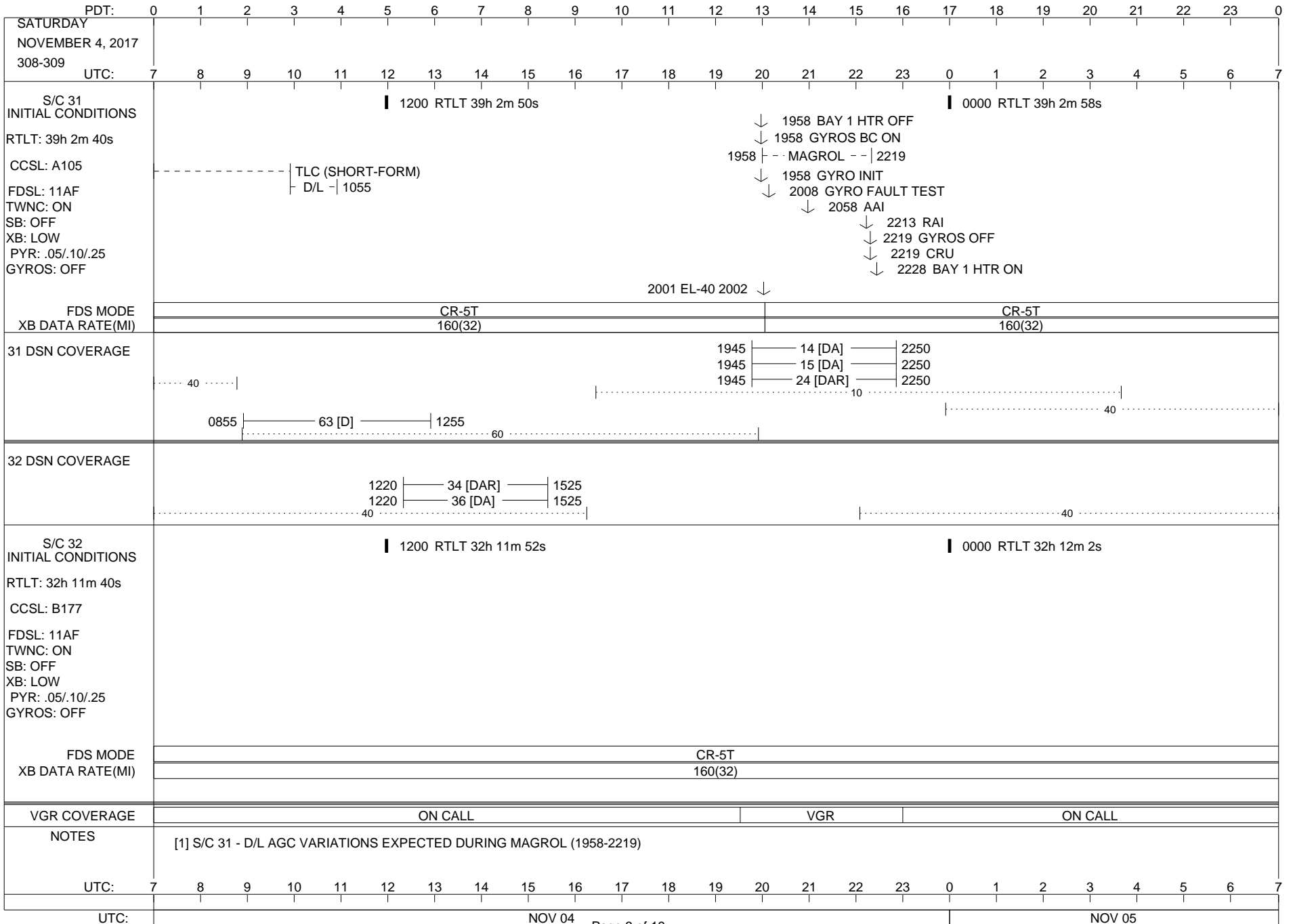
02/27/17



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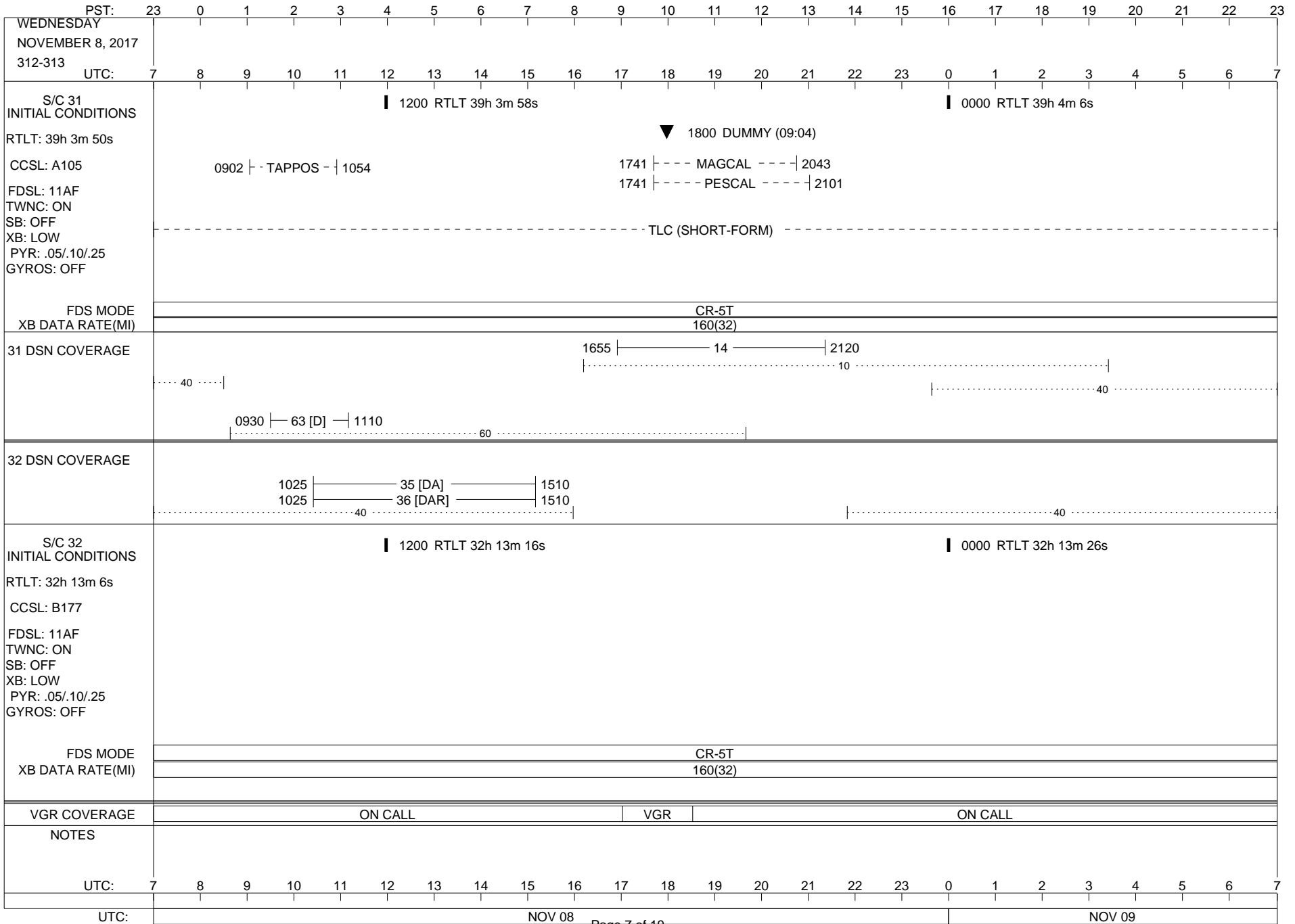


ISSUE DATE: 11/09/17 06:20

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MONDAY NOVEMBER 6, 2017 310-311																											
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	1200 RTLT 39h 3m 24s													0000 RTLT 39h 3m 32s													
RTLT: 39h 3m 16s																											
CCSL: A105																											
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 32h 12m 34s													0000 RTLT 32h 12m 44s													
RTLT: 32h 12m 24s																											
CCSL: B177																											
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:	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 06													NOV 07													



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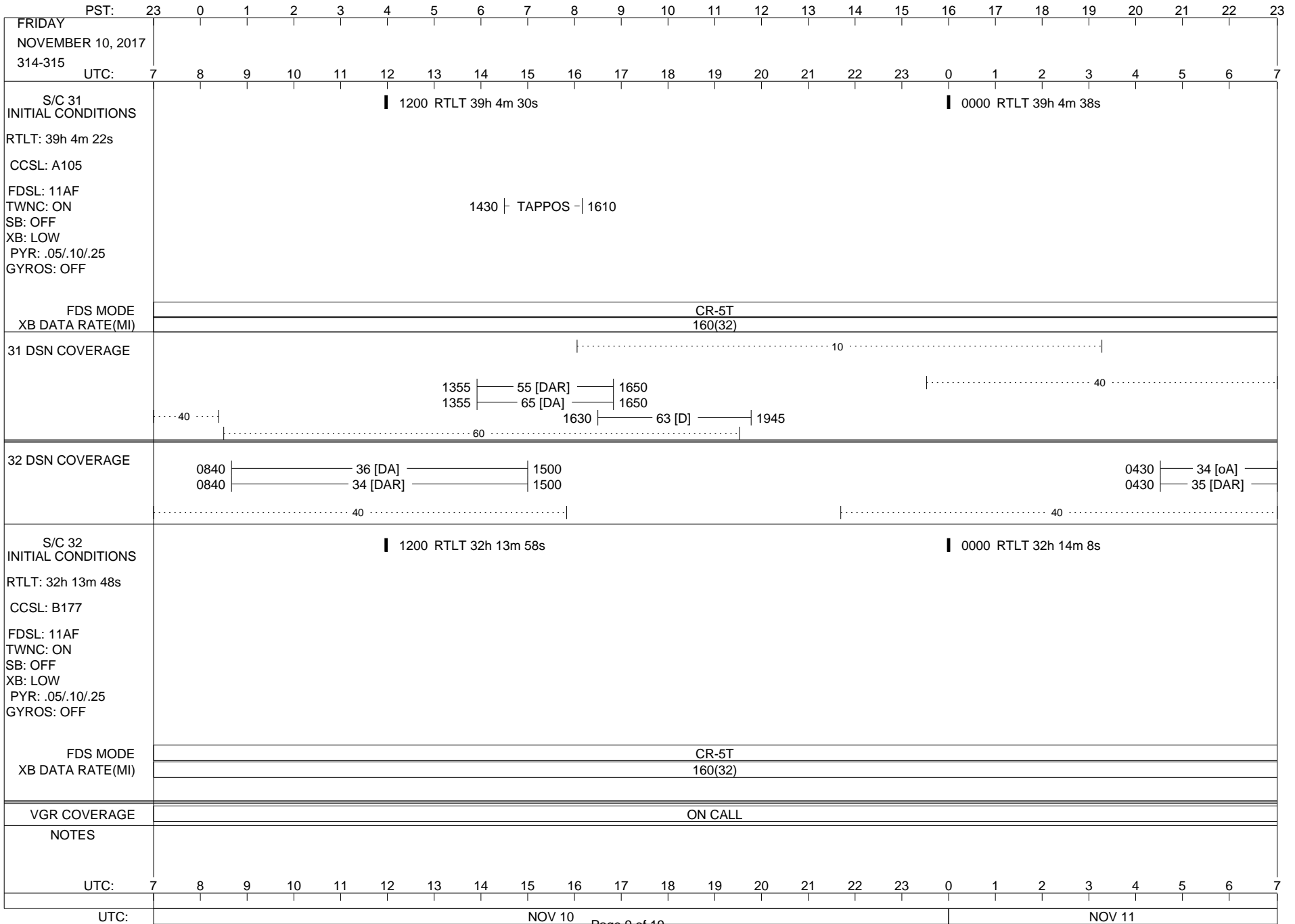




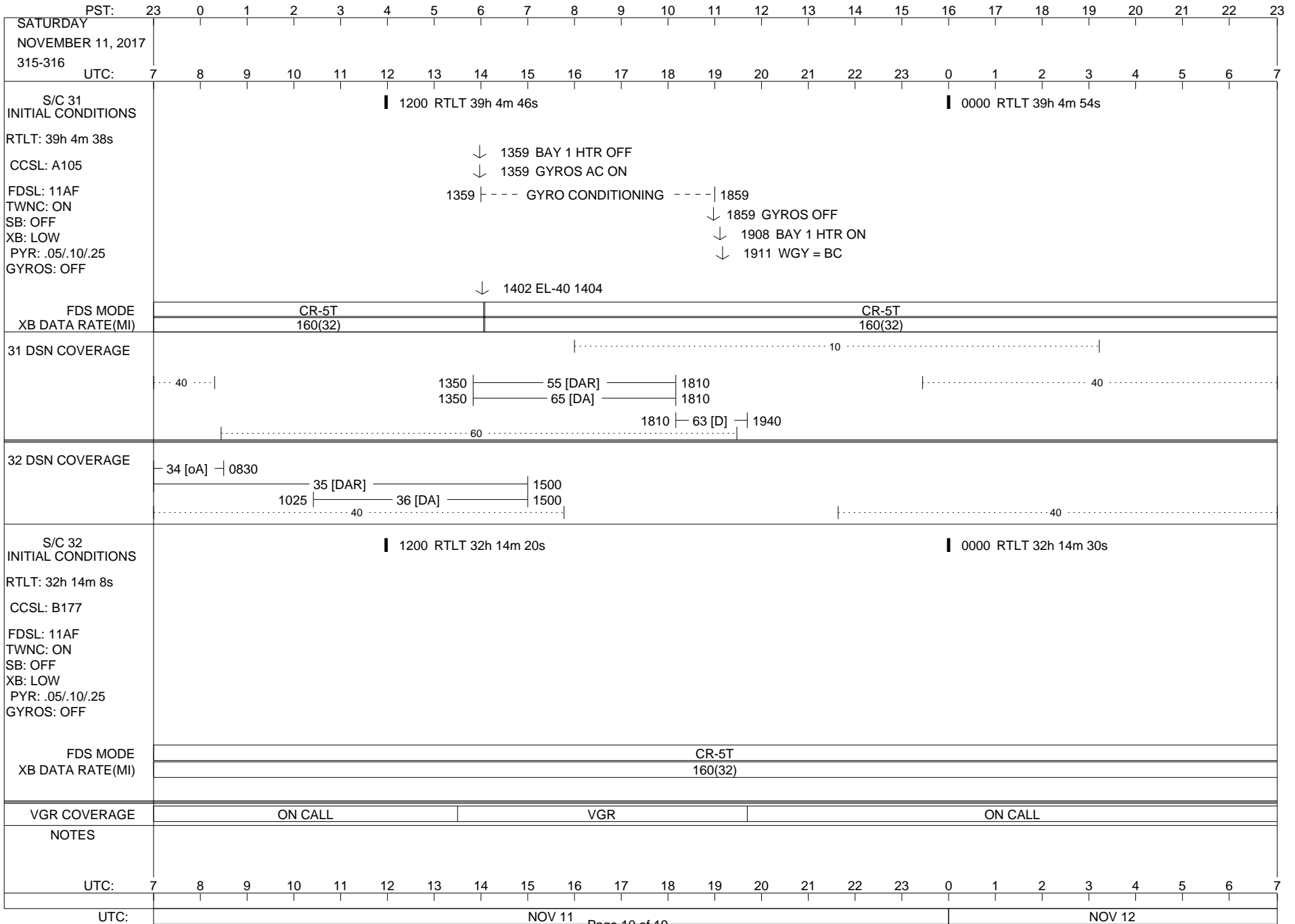
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THURSDAY																												
NOVEMBER 9, 2017																												
313-314																												
UTC:		7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7		
S/C 31 INITIAL CONDITIONS		1200 RTLT 39h 4m 14s											0000 RTLT 39h 4m 22s															
RTLTL: 39h 4m 6s													↓ 1910 BAY 1 HTR OFF ↓ 1914 X/B HI POWER ↓ 1925 YAW=.05 1935  -----PLAYBACK-----  0038															
CCSL: A105													↓ 0047 YAW=.10 ↓ 0049 X/B LOW POWER ↓ 0053 BAY 1 HTR ON															
FDSL: 11AF																												
TWNC: ON																												
SB: OFF																												
XB: LOW																												
PYR: .05/.10/.25																												
GYROS: OFF																												
FDS MODE		CR-5T									PB-14						CR-5T											
XB DATA RATE(MI)		160(32)									1.4K(39)						160(32)											
31 DSN COVERAGE																												
32 DSN COVERAGE																												
S/C 32 INITIAL CONDITIONS		1200 RTLT 32h 13m 38s											0000 RTLT 32h 13m 48s															
RTLTL: 32h 13m 26s																												
CCSL: B177																												
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		[1] S/C 31=PB-14 @ 1935 XB=1.4K(39) [2] S/C 31=CR-5T @ 0038 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 09															NOV 10											

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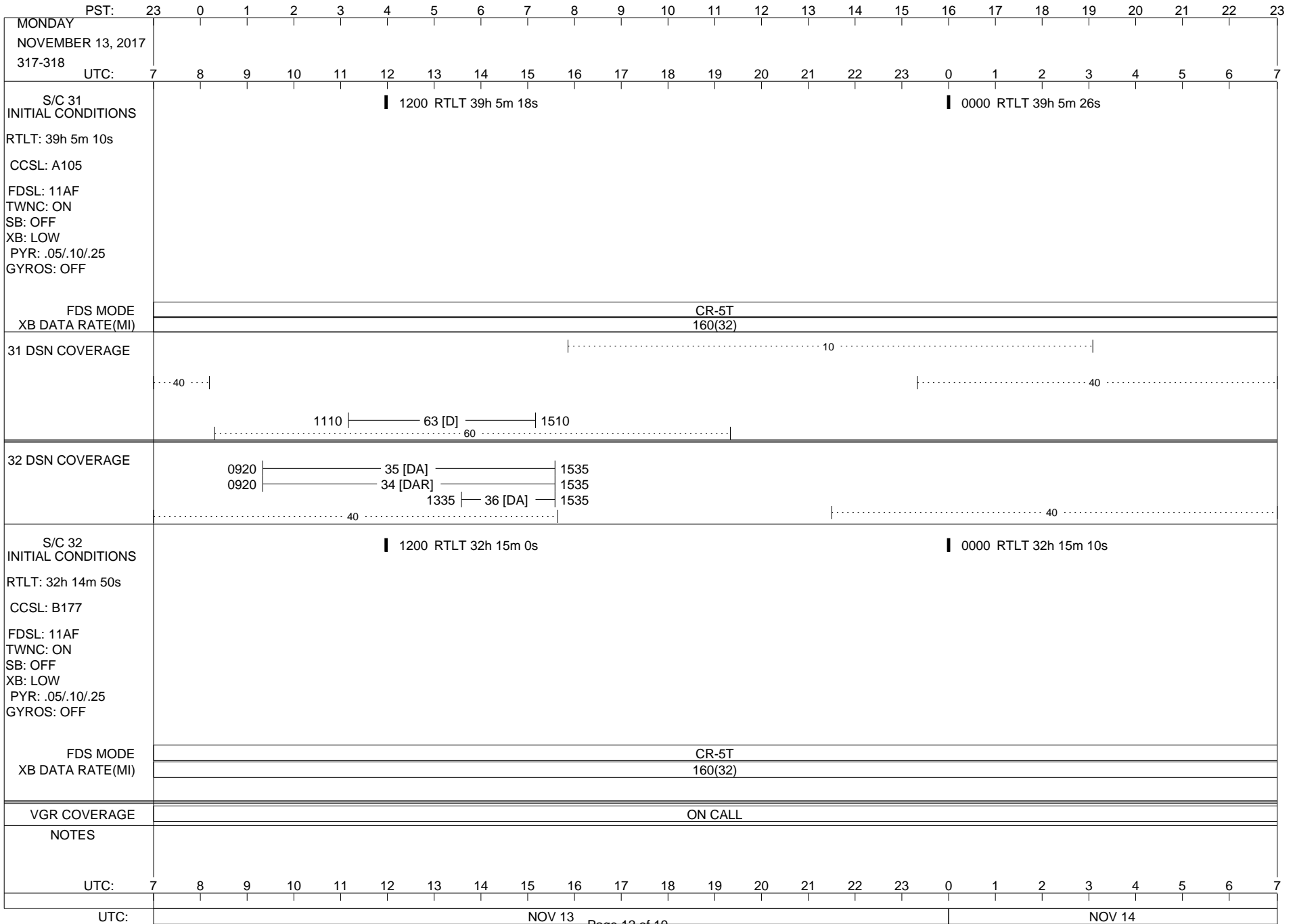
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ISSUE DATE: 11/09/17 06:20

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, 2017 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 RTLT: 39h 4m 54s CCSL: A105 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 5m 2s											0000 RTLT 39h 5m 10s														
FDS MODE XB DATA RATE(MI)												CR-5T 160(32)														
31 DSN COVERAGE	1140  -----  63 [D]  -----  1605 60											0025  -----  14 [D]  -----  0305 40														
32 DSN COVERAGE	1030  -----  35 [DAR]  -----  1455 1030  -----  36 [DA]  -----  1455 40											40														
S/C 32 INITIAL CONDITIONS RTLT: 32h 14m 30s CCSL: B177 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 14m 40s											0000 RTLT 32h 14m 50s														
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											NOV 13														

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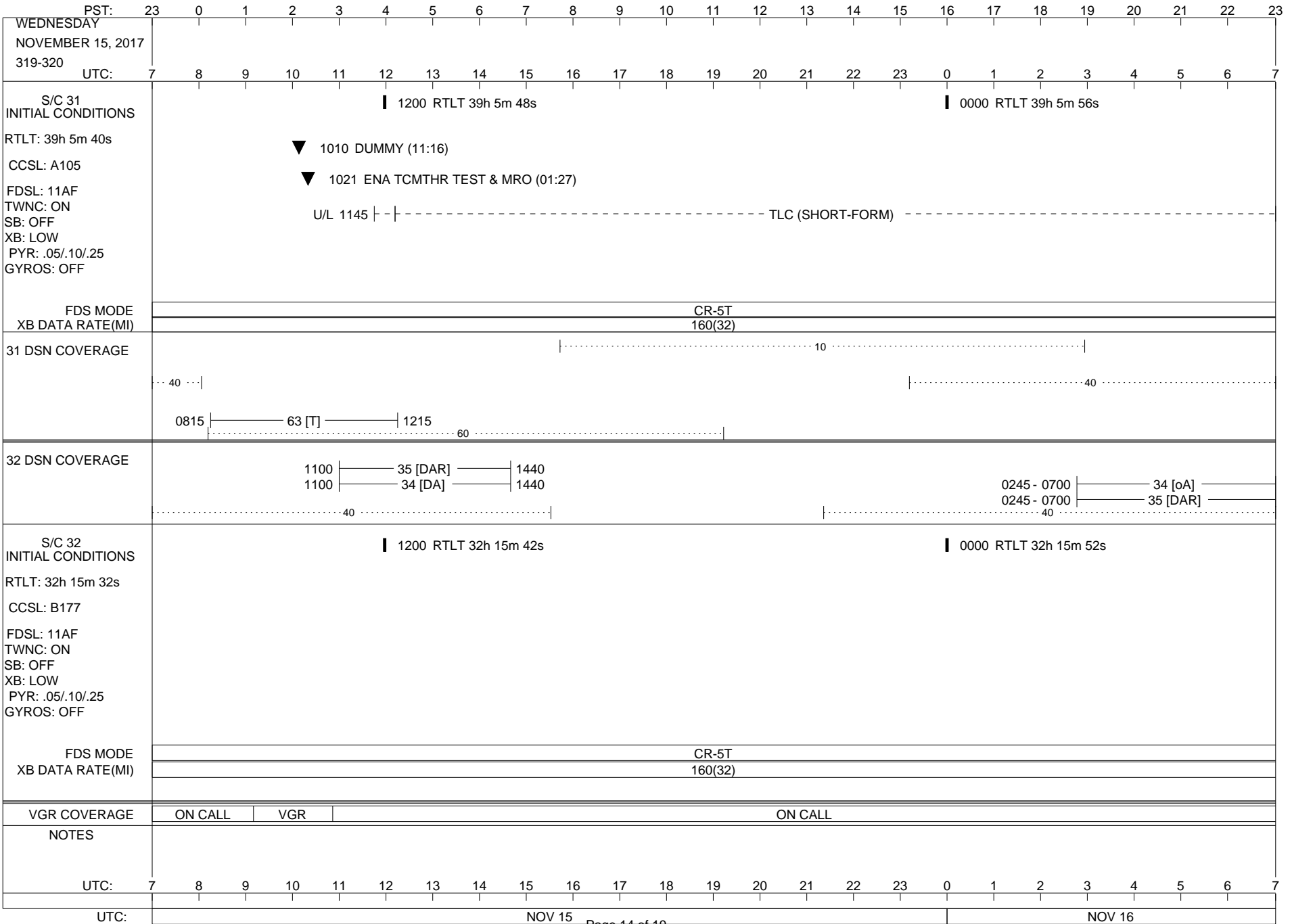


ISSUE DATE: 11/09/17 06:20

		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 14, 2017																											
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								1200													0000						
RTLT: 39h 5m 26s																											
CCSL: A105																											
FDSL: 11AF																											
TWNC: ON																											
SB: OFF																											
XB: LOW																											
PYR: .05/.10/.25																											
GYROS: OFF																											
FDS MODE																											
XB DATA RATE(MI)																											
31 DSN COVERAGE																											
32 DSN COVERAGE																											
S/C 32 INITIAL CONDITIONS								1200													0000						
RTLT: 32h 15m 10s																											
CCSL: B177																											
FDSL: 11AF																											
TWNC: ON																											
SB: OFF																											
XB: LOW																											
PYR: .05/.10/.25																											
GYROS: OFF																											
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:																											

[1] S/C 31=GS-4B @ 0127 XB=2.8K(41) NOT RECOVERABLE

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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, 2017																												
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		1200 RTLT 39h 6m 4s												0000 RTLT 39h 6m 10s														
INITIAL CONDITIONS																												
RTLTL: 39h 5m 56s																												
CCSL: A105																												
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		<p>40  -----  2330  -----  14 [D]  -----  0250</p> <p>1525  -----  63 [D]  -----  1925</p> <p>0250  -----  34 [DAR]  -----  0540</p> <p>0250  -----  35 [DA]  -----  0540</p>																										
32 DSN COVERAGE		<p>0700 34 [oA]</p> <p>0700 35 [DAR]</p> <p>40  -----  40</p>																										
S/C 32		1200 RTLT 32h 16m 2s												0000 RTLT 32h 16m 12s														
INITIAL CONDITIONS																												
RTLTL: 32h 15m 52s																												
CCSL: B177																												
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:		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											



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		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, 2017 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 RTLTL: 39h 6m 10s CCSL: A105 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF				1200 RTLTL 39h 6m 18s												0000 RTLTL 39h 6m 26s											
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)													
31 DSN COVERAGE				-----10-----												-----40-----											
		40		1820   63 [D]   1935																							
32 DSN COVERAGE				0825  -----36 [DA]-----  1520 0825  -----35 [DAR]-----  1520 1320  -----34 [DA]-----  1520												-----40-----											
S/C 32 INITIAL CONDITIONS RTLTL: 32h 16m 12s CCSL: B177 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF				1200 RTLTL 32h 16m 22s												0000 RTLTL 32h 16m 32s											
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)													
VGR COVERAGE		ON CALL																									
NOTES		[1] S/C 31=GS-4B @ 0740 XB=2.8K(41) NOT RECOVERABLE																									
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: 11/09/17 06:20

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

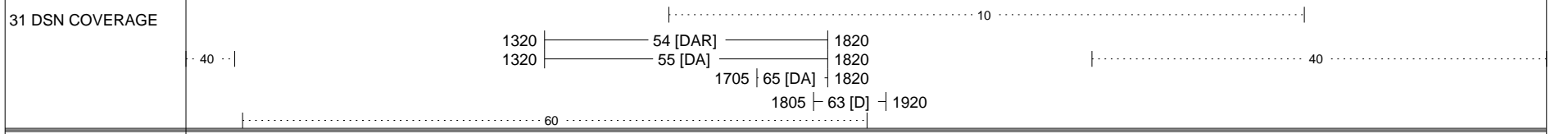
SATURDAY  
NOVEMBER 18, 2017  
322-323  
UTC: 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7

S/C 31  
INITIAL CONDITIONS  
RTLT: 39h 6m 26s  
CCSL: A105  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLT 39h 6m 32s

0000 RTLT 39h 6m 40s

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



S/C 32  
INITIAL CONDITIONS  
RTLT: 32h 16m 32s  
CCSL: B177  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLT 32h 16m 42s

0000 RTLT 32h 16m 52s

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 18 Page 17 of 19 NOV 19

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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, 2017 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 RTLTL: 39h 6m 40s CCSL: A105 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLT 39h 6m 46s</p> <p>0000 RTLT 39h 6m 54s</p> <p>TAPPOS   0738 - 0900</p> <p>1041   1041 PWS/RH</p> <p>1052   - - - -   1200 TAPPOS</p> <p>↓ 1040 GS-4B 1041</p>																								
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)											CR-5T 160(32)													
31 DSN COVERAGE	<p>..... .....10..... .....</p> <p>.....40..... .....40.....</p> <p>0800  -----63 [D]-----  1200</p> <p>.....60..... .....</p>																								
32 DSN COVERAGE	<p>-----36 [DAR]-----  0735 - 1515</p> <p>-----34 [DA]-----  0735 - 1515</p> <p>1315  ---35 [DA]---  1515</p> <p>.....40..... .....40.....</p>																								
S/C 32 INITIAL CONDITIONS RTLTL: 32h 16m 52s CCSL: B177 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLT 32h 17m 2s</p> <p>0000 RTLT 32h 17m 10s</p>																								
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE	ON CALL																								
NOTES	[1] S/C 31=GS-4B @ 1040 XB=2.8K(41) NOT RECOVERABLE																								
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: 11/09/17 06:20

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, 2017 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 RTLTL: 39h 6m 54s CCSL: A105 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLTL 39h 7m 0s</p> <p>1800 DUMMY (09:07)</p>																								
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
31 DSN COVERAGE	<p>1525  -----  14  -----  1925</p> <p>40</p> <p>60</p>																								
32 DSN COVERAGE	<p>1045  -----  36 [DAR]  -----  1510</p> <p>1045  -----  34 [DA]  -----  1510</p> <p>1310  -----  35 [DA]  -----  1510</p> <p>40</p>																								
S/C 32 INITIAL CONDITIONS RTLTL: 32h 17m 10s CCSL: B177 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLTL 32h 17m 20s</p>																								
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 20															NOV 21									