

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: November 2, 2016

For the Period: 11/03/16 to 11/21/16 (16-308 – 16-326)

**DSN OPSCHIEF (1) 230-102**

**DSOT (1) 230-102**

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**OTHER**

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 \* Belinda.Arroyo@jpl.nasa.gov  
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**SCIENCE**

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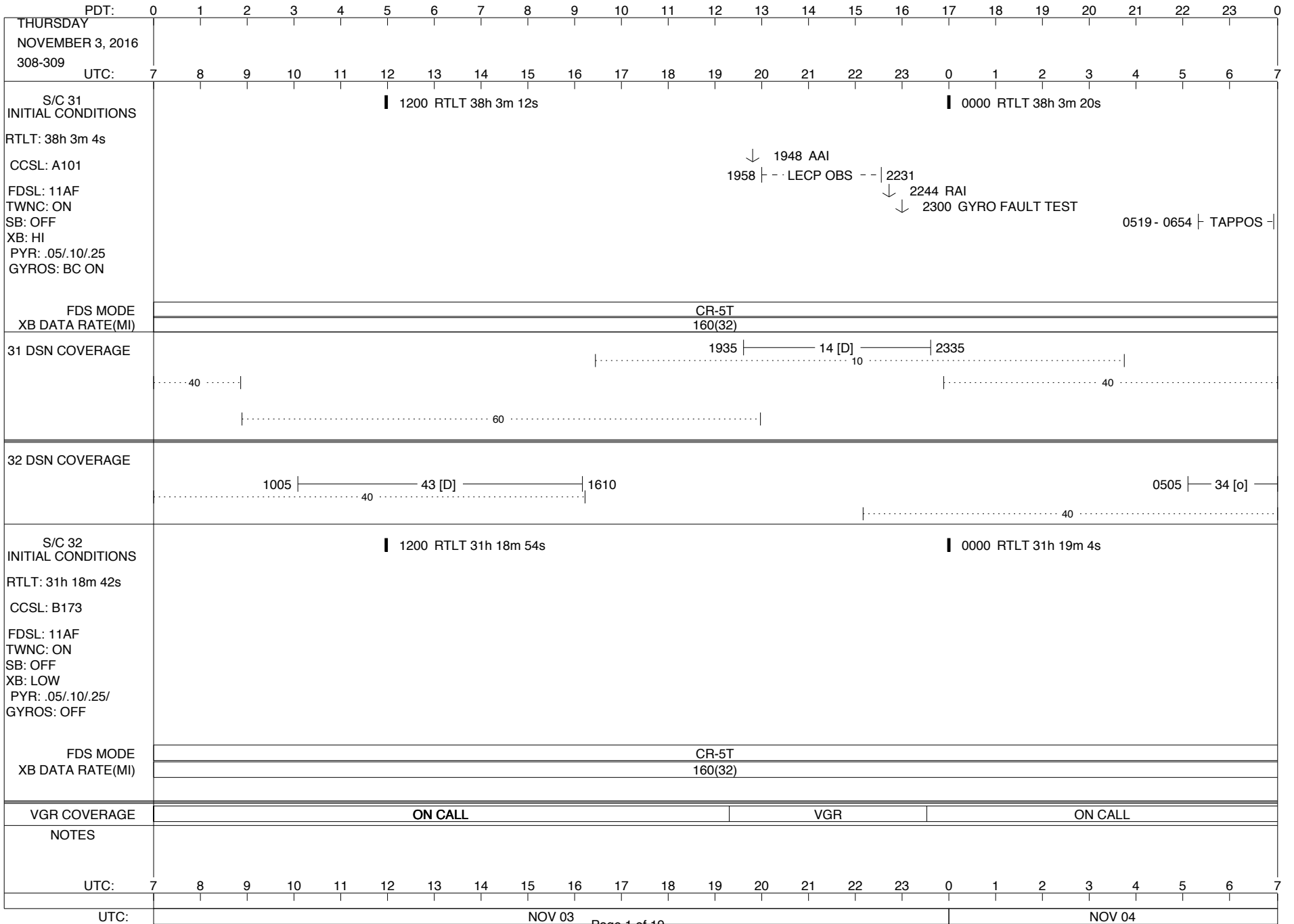
**FLIGHT TEAM (14) 600-100**

Dodd, S.  
 Hall, J.  
 Howard, S. (3)  
 Ludwig, R. (2)  
 Matsumoto, S.  
 Medina  
 Peralta, F.  
 Weeks, T.  
 Wong, R.  
 Yang, L.  
 Zottarelli, L.  
 \*odivers@san.rr.com

**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

\*Electronic Copy Only  
 (16 – Dist/N: Paper Copies)  
 09/08/10

ISSUE DATE: 11/10/16 07:25



ISSUE DATE: 11/10/16 07:25

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 4, 2016 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		1200 RTLT 38h 3m 30s														0000 RTLT 38h 3m 38s													
RTLT: 38h 3m 20s CCSL: A101 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON		0821   0822 PWS/RH 0832   TAPPOS   0954 ↓ 0820 GS-4B 0822														↓ 1936 AAI 1939  -----MAGROL-----  0135 ↓ 0127 RAI ↓ 0135 CRU ↓ 0135 GYROS OFF													
FDS MODE		CR-5T														CR-5T													
XB DATA RATE(MI)		160(32)														160(32)													
31 DSN COVERAGE		<p>Timeline for S/C 31 DSN Coverage:</p> <ul style="list-style-type: none"> <li>UTC 7: 40 min coverage</li> <li>UTC 11: 1800 min coverage</li> <li>UTC 12: 1800 min coverage</li> <li>UTC 13: 1915 min coverage</li> <li>UTC 14: 24 [DA] min coverage</li> <li>UTC 15: 26 [DAR] min coverage</li> <li>UTC 16: 14 [DA] min coverage</li> <li>UTC 17: 10 min coverage</li> <li>UTC 18: 0140 min coverage</li> <li>UTC 19: 0140 min coverage</li> <li>UTC 20: 0225 min coverage</li> <li>UTC 21: 40 min coverage</li> <li>UTC 22: 60 min coverage</li> </ul>																											
32 DSN COVERAGE		<p>Timeline for S/C 32 DSN Coverage:</p> <ul style="list-style-type: none"> <li>UTC 7: 34 [o] min coverage</li> <li>UTC 8: 0915 min coverage</li> <li>UTC 13: 1345 min coverage</li> <li>UTC 14: 34 [DA] min coverage</li> <li>UTC 15: 1540 min coverage</li> <li>UTC 16: 35 [DAR] min coverage</li> <li>UTC 17: 1540 min coverage</li> <li>UTC 21: 40 min coverage</li> </ul>																											
S/C 32 INITIAL CONDITIONS		1200 RTLT 31h 19m 14s														0000 RTLT 31h 19m 26s													
RTLT: 31h 19m 4s CCSL: B173 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=GS-4B @ 0820 XB=2.8K(41) NOT RECOVERABLE [2] S/C 31=DL AGC & SNR VARIATIONS EXPECTED DURING MAGROL (1939-0135)																											
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													

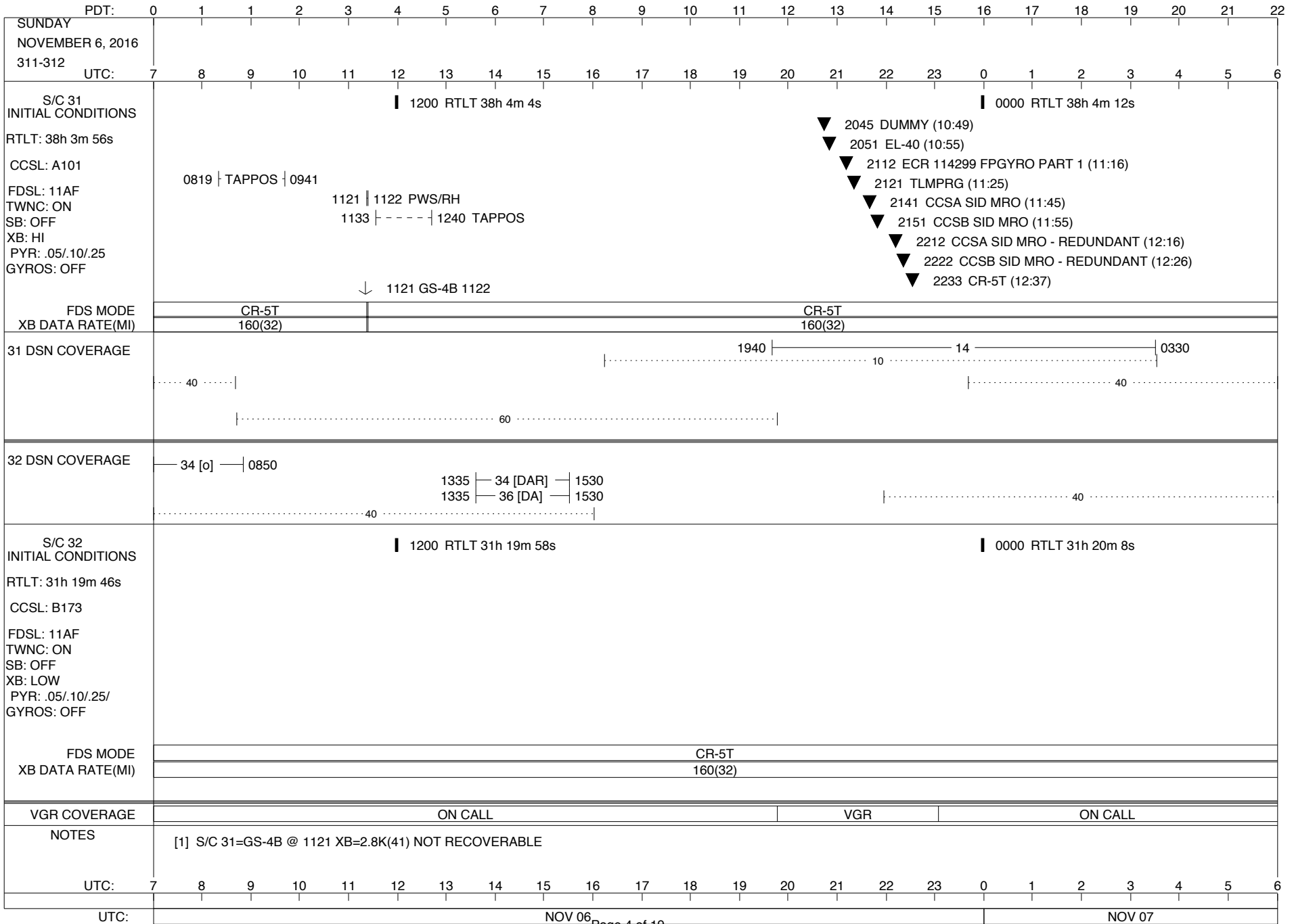
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SATURDAY NOVEMBER 5, 2016 310-311																									
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S/C 31 INITIAL CONDITIONS RTLT: 38h 3m 38s CCSL: A101 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: OFF						█ 1200												█ 0000							
FDS MODE XB DATA RATE(MI)																									
31 DSN COVERAGE																									
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS RTLT: 31h 19m 26s CCSL: B173 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ 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:																									

NOV 05

NOV 06

ISSUE DATE: 11/10/16 07:25



ISSUE DATE: 11/10/16 07:25

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 7, 2016 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 RTLT: 38h 4m 12s CCSL: A101 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 38h 4m 20s													0000 RTLT 38h 4m 28s													
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
31 DSN COVERAGE	<p>..... .....10..... .....</p> <p>.....40..... .....40.....</p> <p>0845  -----63 [D]----- 1245</p> <p>.....60..... .....</p>																										
32 DSN COVERAGE	<p>.....1005  -----43 [D]----- 1555</p> <p>.....40..... .....40.....</p> <p>.....0415  -----43 [H1]-----</p>																										
S/C 32 INITIAL CONDITIONS RTLT: 31h 20m 8s CCSL: B173 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 31h 20m 18s													0000 RTLT 31h 20m 30s													
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
VGR COVERAGE	ON CALL																				VGR						
NOTES	[1] DSS-43 HP TXR DRV ON >= 23:15																										
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 07																		NOV 08								

ISSUE DATE: 11/10/16 07:25

		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						
TUESDAY																																	
NOVEMBER 8, 2016																																	
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 38h 4m 38s												0000 RTLT 38h 4m 46s																	
RTLT: 38h 4m 28s		U/L 0900		----- TLC (SHORT-FORM) -----																													
CCSL: A101				1118* 1124 ECR 114299 FPGYRO PART 1 IMPLEMENTATION																													
FDSL: 11AF				1125* 1141 TLMPRG																													
TWNC: ON				1146* 1152 CCSA SID MRO																													
SB: OFF				1157* 1203 CCSB SID MRO																													
XB: HI				1217* 1223 CCSA SID MRO - REDUNDANT																													
PYR: .05/.10/.25				1228* 1234 CCSB SID MRO - REDUNDANT																													
GYROS: OFF				EL-40 1056* 1238 CR-5T																													
FDS MODE		CR-5T		EL-40		CR-5T		CR-5T		CR-5T		CR-5T		CR-5T		CR-5T		CR-5T		CR-5T		CR-5T		CR-5T		CR-5T							
XB DATA RATE(MI)		160(32)		40(30)		160(32)		160(32)		160(32)		160(32)		160(32)		160(32)		160(32)		160(32)		160(32)		160(32)		160(32)							
31 DSN COVERAGE				----- 10 -----																													
		40		----- 40 -----																													
		0835		63 [T]		1345		----- 60 -----																									
32 DSN COVERAGE				43 [H1]   0815																													
				40																													
				40																													
S/C 32 INITIAL CONDITIONS				1200 RTLT 31h 20m 40s												0000 RTLT 31h 20m 50s																	
RTLT: 31h 20m 30s																																	
CCSL: B173																																	
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		VGR	ON CALL	VGR	ON CALL																												
NOTES		[1] S/C 31=EL-40 @ 1056 XB=40(30)																															
		[2] S/C 31=CR-5T @ 1238 XB=160(32)																															
		[3] S/C 31=GS-4B @ 0144 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 08												NOV 09																			

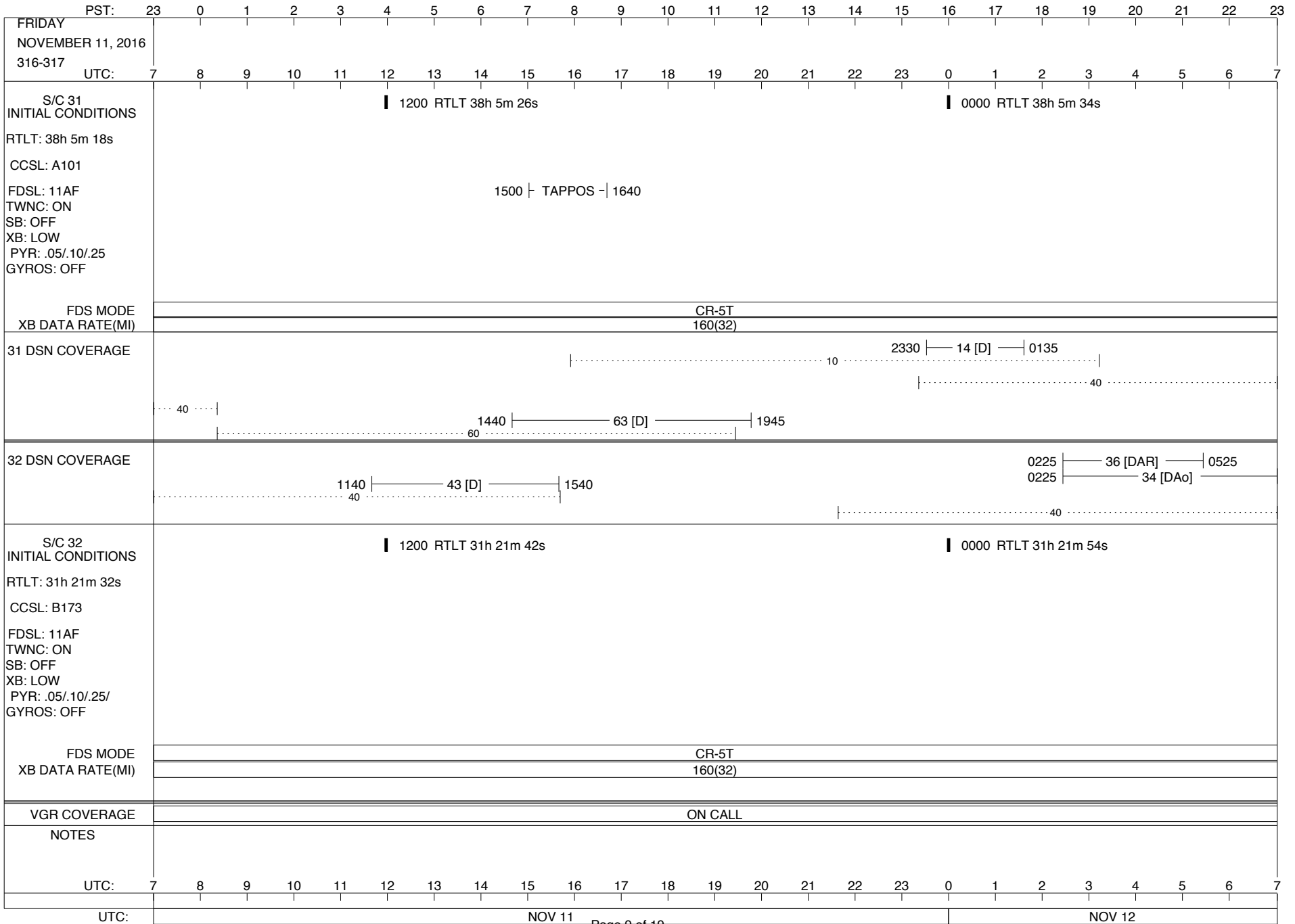
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PST:	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
WEDNESDAY NOVEMBER 9, 2016 314-315	UTC: 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
S/C 31 INITIAL CONDITIONS RTLTL: 38h 4m 46s CCSL: A101 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/10/25 GYROS: OFF	1200 RTLT 38h 4m 54s												0000 RTLT 38h 5m 2s													
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
31 DSN COVERAGE	0830   63 [D]   1105												1605   14 [D]   0235													
32 DSN COVERAGE	1130   43 [D]   1545																									
S/C 32 INITIAL CONDITIONS RTLTL: 31h 20m 50s CCSL: B173 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25/ GYROS: OFF	1200 RTLT 31h 21m 0s												0000 RTLT 31h 21m 12s													
FDS MODE	CR-5T				EL-40				CR-5T				CR-5T				CR-5T									
XB DATA RATE(MI)	160(32)				40(30)				160(32)				160(32)				160(32)									
VGR COVERAGE	ON CALL				VGR				ON CALL				ON CALL				ON CALL									
NOTES	[1] S/C 32=EL-40 @ 1247 XB=40(30) [2] S/C 32=CR-5T @ 1401 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									

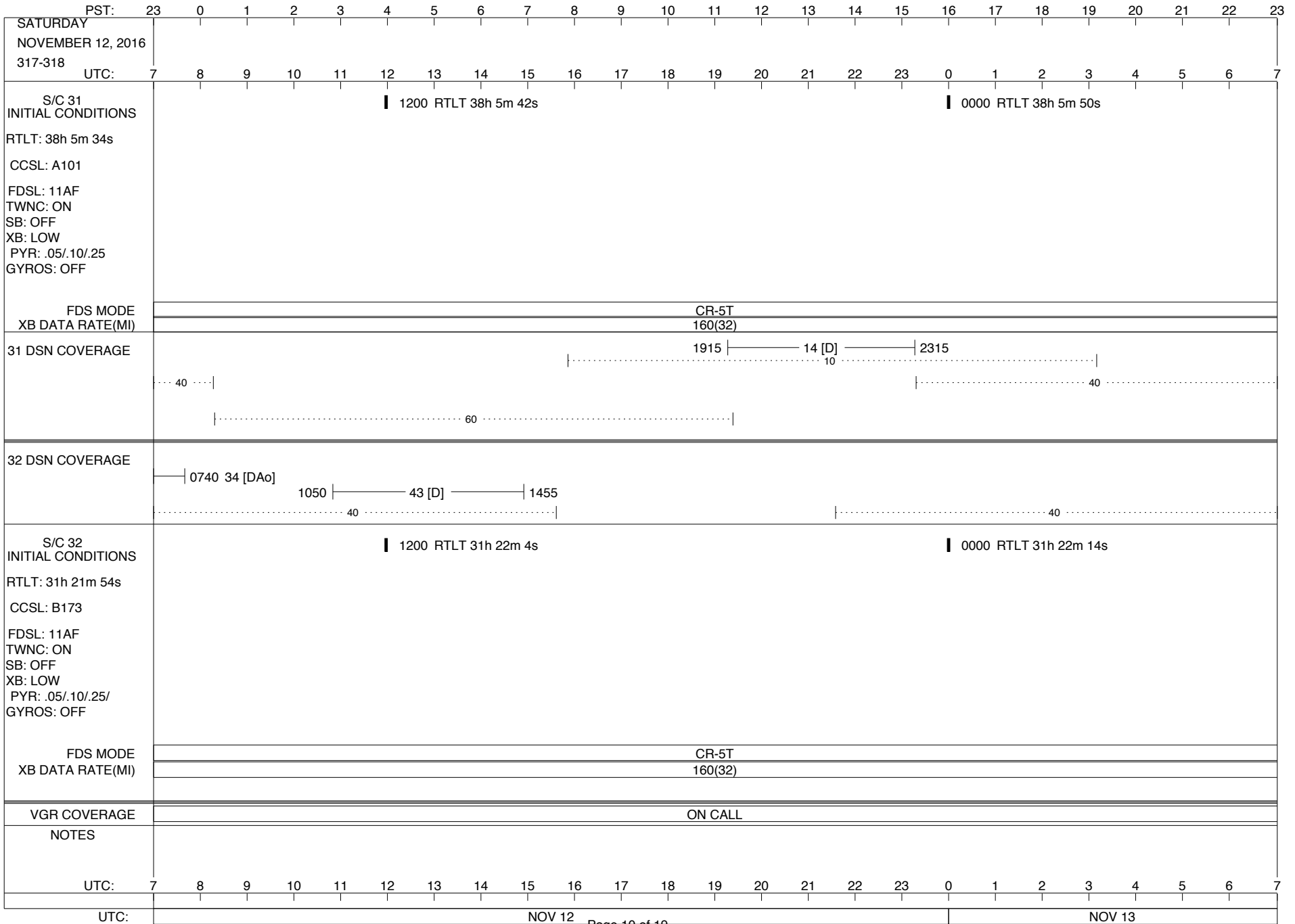




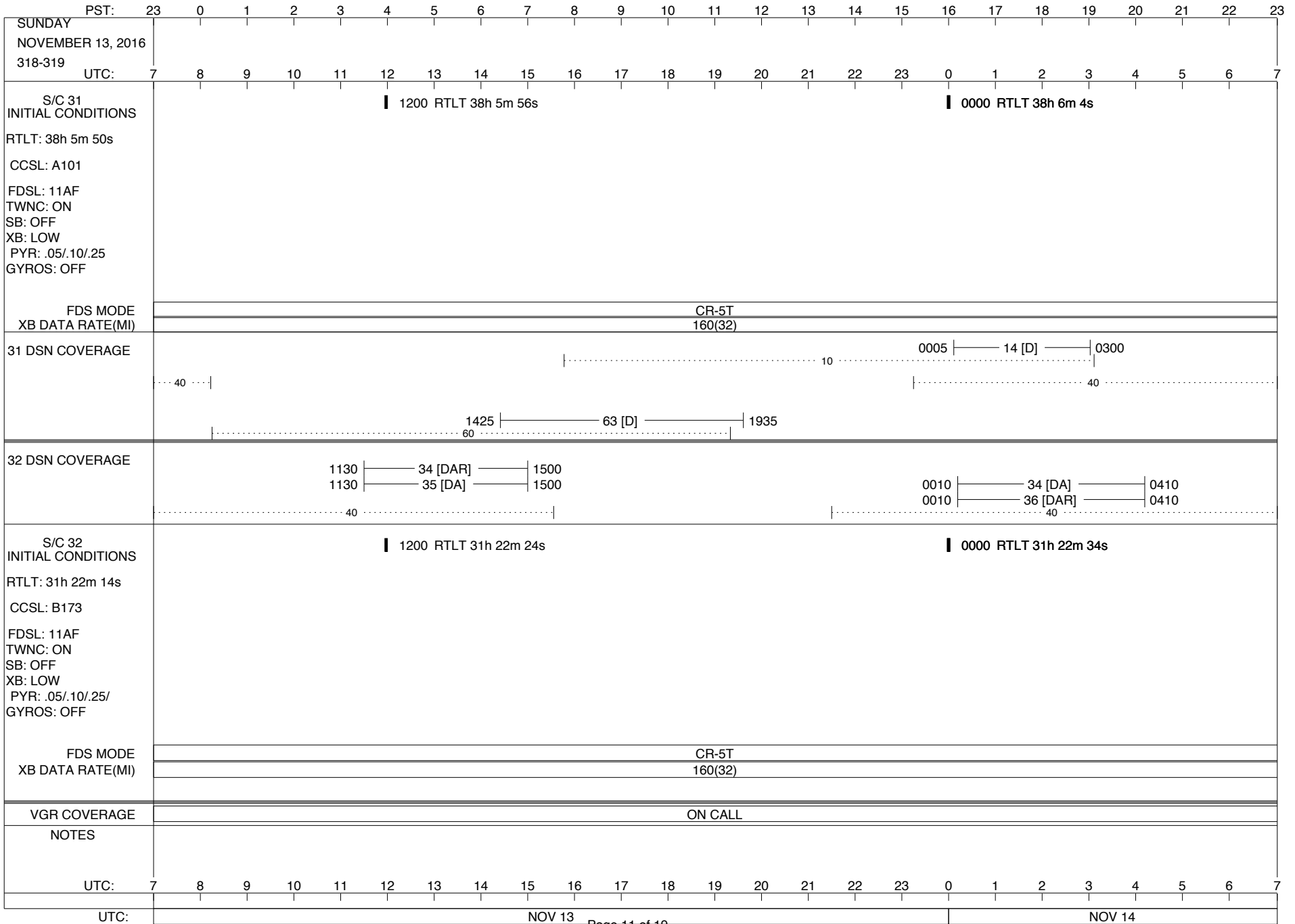
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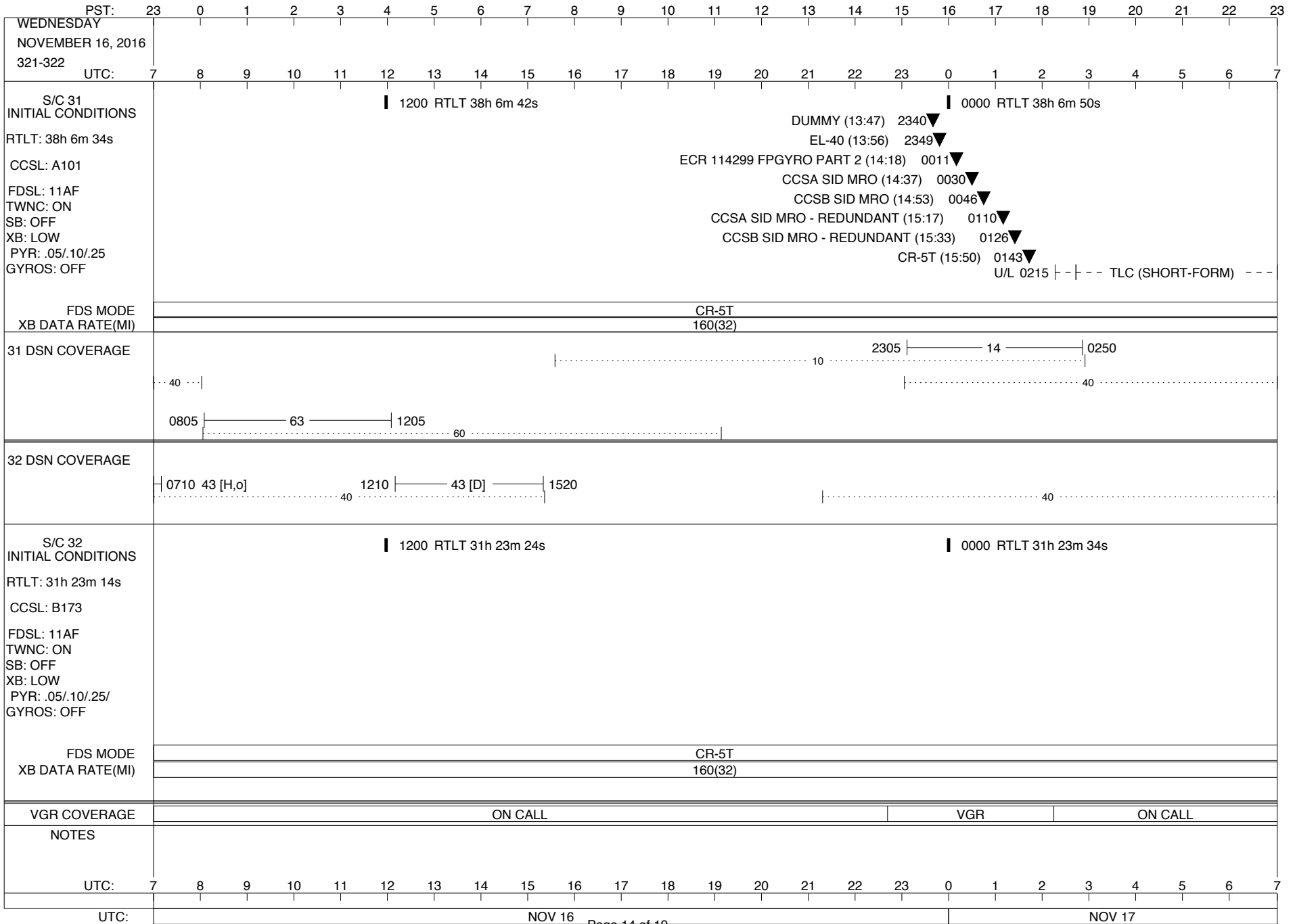
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MONDAY NOVEMBER 14, 2016 319-320																									
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLTL: 38h 6m 4s CCSL: A101 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						1200																			
FDS MODE																									
XB DATA RATE(MI)																									
31 DSN COVERAGE																									
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS RTLTL: 31h 22m 34s CCSL: B173 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	7
UTC:																									

ISSUE DATE: 11/10/16 07:25

		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	
TUESDAY																												
NOVEMBER 15, 2016																												
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		1200 RTLT 38h 6m 28s											0000 RTLT 38h 6m 34s															
RTLT: 38h 6m 20s																												
CCSL: A101													↓ 1908 AHELI2 ENA															
FDSL: 11AF													1919   1920 2 AHELI2 SID MRO'S															
TWNC: ON																												
SB: OFF													0121   0122 PWS/RH															
XB: LOW																												
PYR: .05/.10/.25																												
GYROS: OFF													↓ 0121 GS-4B 0122															
FDS MODE		CR-5T											CR-5T															
XB DATA RATE(MI)		160(32)											160(32)															
31 DSN COVERAGE		<p>1840  ----- 14 [D] -----  2120</p> <p>..... 40 ..... ----- 10 ----- </p> <p>1705  ----- 63 [D] -----  1850</p> <p>..... 60 ----- </p>																										
32 DSN COVERAGE		<p>1010  ----- 43 [D] -----  1520</p> <p>..... 40 ----- ----- 40 ----- </p> <p>0255  ----- 43 [H,o] ----- </p>																										
S/C 32 INITIAL CONDITIONS		1200 RTLT 31h 23m 4s											0000 RTLT 31h 23m 14s															
RTLT: 31h 22m 54s																												
CCSL: B173													0316   PLSCAL -   0459															
FDSL: 11AF													0316 - 0619   --- MAGCAL ---															
TWNC: ON													0316 - 0636   --- PESCAL ---															
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=GS-4B @ 0121 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 15											NOV 16															

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ISSUE DATE: 11/10/16 07:25

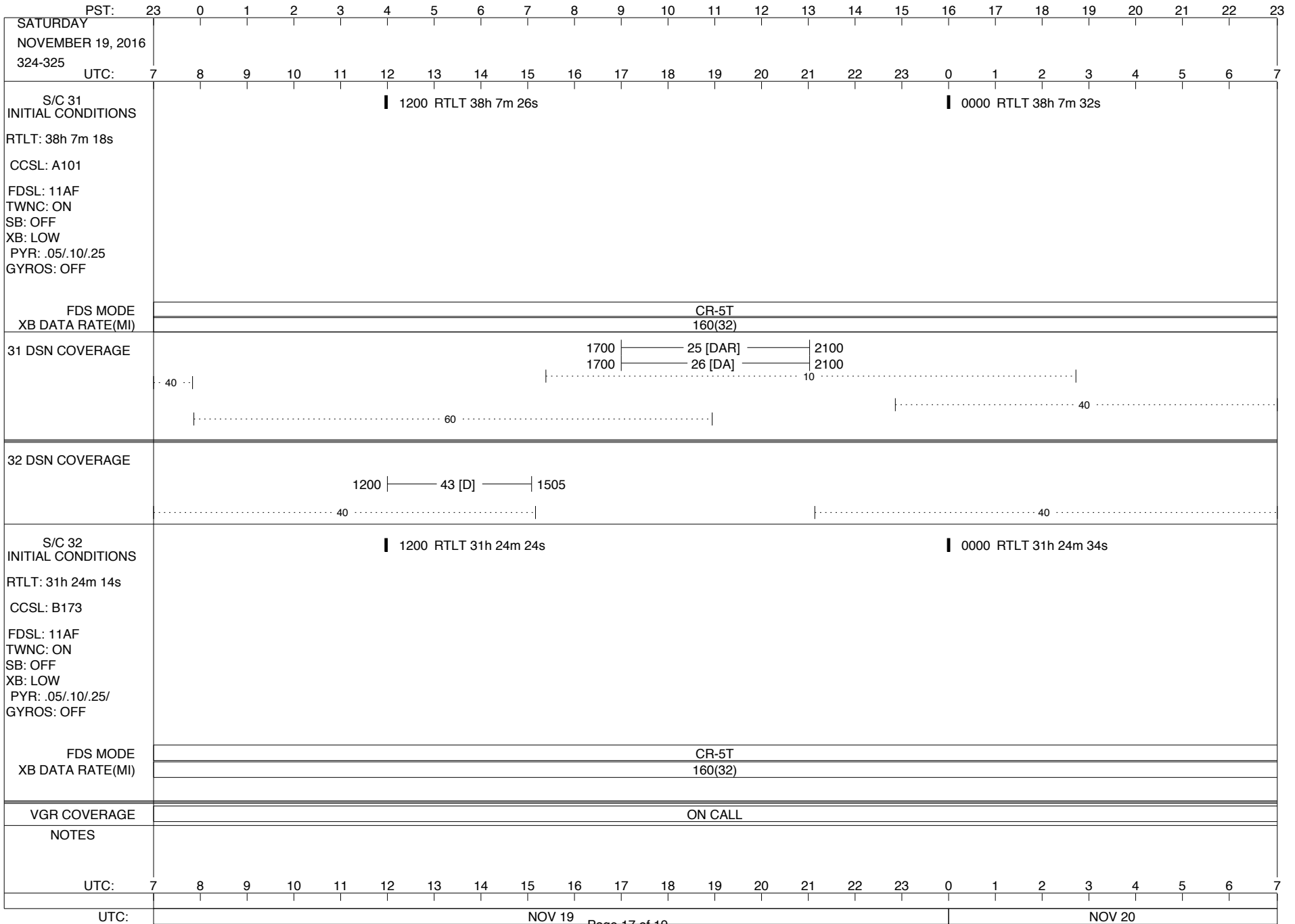
PST:	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
THURSDAY NOVEMBER 17, 2016 322-323																										
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
S/C 31 INITIAL CONDITIONS RTLT: 38h 6m 50s CCSL: A101 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						1200													0000							
FDS MODE XB DATA RATE(MI)																										
31 DSN COVERAGE																										
32 DSN COVERAGE																										
S/C 32 INITIAL CONDITIONS RTLT: 31h 23m 34s CCSL: B173 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ 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:																										



ISSUE DATE: 11/10/16 07:25

FRIDAY NOVEMBER 18, 2016 323-324		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 RTLTL: 38h 7m 4s CCSL: A101 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 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
FDS MODE XB DATA RATE(MI)		1200 RTLT 38h 7m 12s											0000 RTLT 38h 7m 18s													
31 DSN COVERAGE		↓ 0735 GS-4B 0736 CR-5T 160(32) EL-40 1357 EL-40 40(30) CR-5T 160(32)											1418*   1434 ECR 114299 FPGYRO PART 2 IMPLEMENTATION 1441*   1449 CCSA SID MRO 1457*   1506 CCSB SID MRO 1521*   1529 CCSA SID MRO - REDUNDANT 1537*   1546 CCSB SID MRO - REDUNDANT --- TLC (SHORT-FORM) ---   D/L -   1750 1550 CR-5T													
32 DSN COVERAGE		1300   60   63 [D]   1900											1010   40   43 [D]   1510 2140   34 [DA]   0240 2140   35 [DAR]   0240   40													
S/C 32 INITIAL CONDITIONS RTLTL: 31h 23m 54s CCSL: B173 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF		1200 RTLT 31h 24m 4s											0000 RTLT 31h 24m 14s													
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)											ON CALL													
NOTES		[1] S/C 31=GS-4B @ 0735 XB=2.8K(41) NOT RECOVERABLE [2] S/C 31=EL-40 @ 1357 XB=40(30) [3] S/C 31=CR-5T @ 1550 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 18											NOV 19													

ISSUE DATE: 11/10/16 07:25



ISSUE DATE: 11/10/16 07:25

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	
SUNDAY NOVEMBER 20, 2016 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: 38h 7m 32s CCSL: A101 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 38h 7m 40s											0000 RTLT 38h 7m 46s														
	TAPPOS   0733 - 0854 1035   1036 PWS/RH 1046   - - - -   1154 TAPPOS																									
	↓ 1034 GS-4B 1036																									
FDS MODE	CR-5T											CR-5T														
XB DATA RATE(MI)	160(32)											160(32)														
31 DSN COVERAGE	----- ----- ----- ----- ----- ----- ----- ----- ----- ----- -----											----- ----- ----- ----- ----- ----- ----- ----- ----- ----- -----														
	1250  -----  63 [D]  -----  1910											----- ----- ----- ----- ----- ----- ----- ----- ----- ----- -----														
32 DSN COVERAGE	1035  -----  34 [DA]  -----  1435											----- ----- ----- ----- ----- ----- ----- ----- ----- ----- -----														
	1035  -----  36 [DAR]  -----  1435											----- ----- ----- ----- ----- ----- ----- ----- ----- ----- -----														
S/C 32 INITIAL CONDITIONS RTLT: 31h 24m 34s CCSL: B173 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 31h 24m 44s											0000 RTLT 31h 24m 54s														
FDS MODE												CR-5T														
XB DATA RATE(MI)												160(32)														
VGR COVERAGE												ON CALL														
NOTES	[1] S/C 31=GS-4B @ 1034 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 20													NOV 21												

ISSUE DATE: 11/10/16 07:25

		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 21, 2016																											
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		1200 RTLT 38h 7m 52s																									
RTLT: 38h 7m 46s																											
CCSL: A101																											
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		<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;">40 . </div> <div style="width: 20%; text-align: center;">           1655  ----- 25 [DA] -----  2055            1655  ----- 26 [DAR] -----  2055         </div> </div> <div style="text-align: center; margin-top: 10px;">            ----- 60 -----          </div>																									
32 DSN COVERAGE		<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;">           1100  ----- 43 [D] -----  1500            40         </div> <div style="width: 40%; text-align: center;">           2100  ----- 43 -----  0000         </div> </div> <div style="text-align: center; margin-top: 10px;">            ----- 60 -----          </div>																									
S/C 32 INITIAL CONDITIONS		1200 RTLT 31h 25m 4s																									
RTLT: 31h 24m 54s																											
CCSL: B173																											
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:		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															NOV 22										