

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: October 24, 2012

For the Period: 10/25/12 to 11/12/12 (12-299 – 12-317)

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

**SCIENCE**

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

**DSOT (1) 230-102**

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- UVS \*holberg@argus.lpl.arizona.edu
- MAG \*u2mha@lepvox.gsfc.nasa.gov
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- Howard, S. (3)
- Ludwig, R. (2)
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- Medina, E.
- Peralta, F.
- Weeks, T.
- Wong, R.
- Yang, L
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- 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 = 7-Point BLF
  - D = Downlink only pass
  - H = High Power Transmitter
  - R = Array Reference Antenna
  - T = TLC Uplink
  - U = Uplink only pass
  - [o] = Ramp-through

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09/08/10

ISSUE DATE: 10/31/12 16:31

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

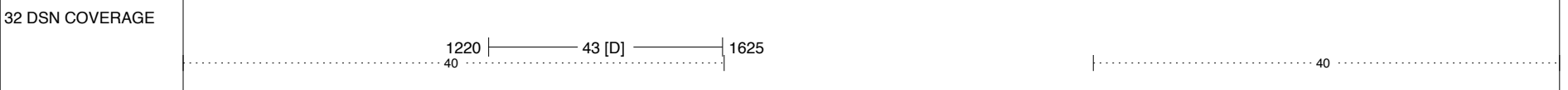
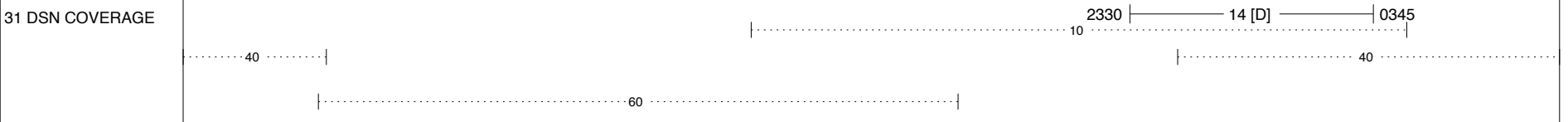
THURSDAY OCTOBER 25, 2012

299-300 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: 34h 2m 26s  
CCSL: A085  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: HI  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLTL 34h 2m 36s  
1804 | - - TAPPOS - - | 2019  
0000 RTLTL 34h 2m 46s

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



S/C 32  
INITIAL CONDITIONS  
RTLTL: 27h 44m 56s  
CCSL: B157  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: HI  
PYR: .05/.10/.25/  
GYROS: OFF

1200 RTLTL 27h 45m 6s  
0000 RTLTL 27h 45m 18s  
↓ 1237 CLT = 36 WEEKS  
1251 | - | 1316 DMRO  
1351 | - | 1416 DMRO  
1451 | - | 1516 DMRO  
1551 | - | 1616 DMRO

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

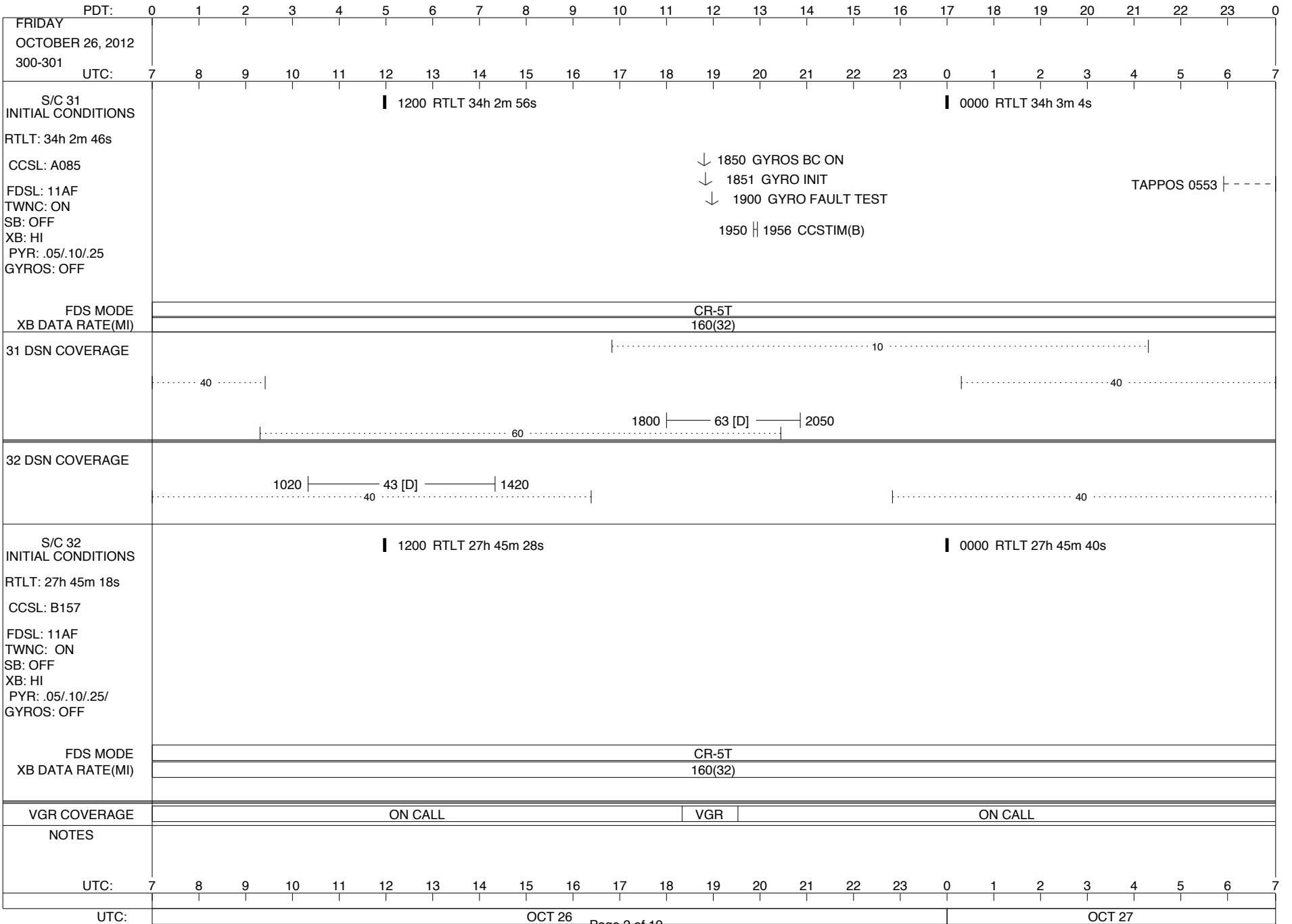
VGR COVERAGE ON CALL VGR ON CALL

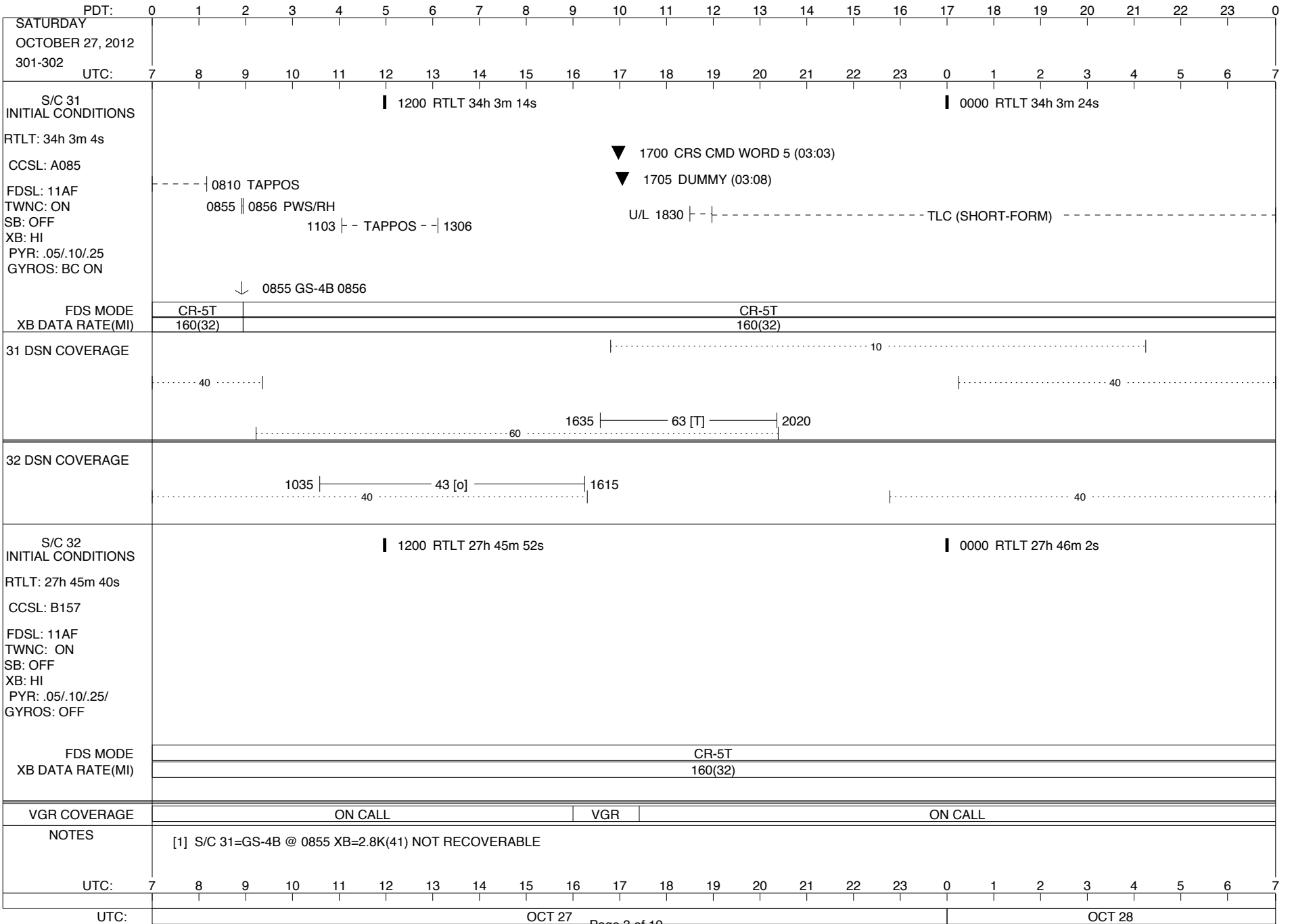
NOTES

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: OCT 25 Page 1 of 19 OCT 26

ISSUE DATE: 10/31/12 16:31





ISSUE DATE: 10/31/12 16:31

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	
SUNDAY OCTOBER 28, 2012 302-303																										
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: 34h 3m 24s CCSL: A085 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON						█ 1200 RTLT 34h 3m 32s												█ 0000 RTLT 34h 3m 42s								
FDS MODE XB DATA RATE(MI)																										
31 DSN COVERAGE																										
32 DSN COVERAGE																										
S/C 32 INITIAL CONDITIONS RTLT: 27h 46m 2s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25/ GYROS: OFF						█ 1200 RTLT 27h 46m 14s												█ 0000 RTLT 27h 46m 24s								
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:	OCT 28														OCT 29											

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
MONDAY OCTOBER 29, 2012 303-304																									
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: 34h 3m 42s CCSL: A085 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON	1200 RTLT 34h 3m 52s												0000 RTLT 34h 4m 0s												
FDS MODE	CR-5T																								
XB DATA RATE(MI)	160(32)																								
31 DSN COVERAGE	.....												.....												
	.....												.....												
32 DSN COVERAGE	.....												.....												
S/C 32 INITIAL CONDITIONS RTLT: 27h 46m 24s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 27h 46m 36s												0000 RTLT 27h 46m 46s												
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:	OCT 29												OCT 30												

ISSUE DATE: 10/31/12 16:31

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		
TUESDAY OCTOBER 30, 2012 304-305																											
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: 34h 4m 0s CCSL: A085 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON	1200 RTLTL 34h 4m 10s												0000 RTLTL 34h 4m 18s														
													↓ 2007 ALL DB=.05 ↓ 2023 AAI 2024   --   2101 ASCAL ↓ 2058 FAI ↓ 2101 CRU ↓ 2109 ROLL=.25 ↓ 2111 GYRO FAULT TEST 1952 ↓      ↓ 2104      ↓ 0232 GS-4B 0233 ↓ 0233 PWS/RH														
FDS MODE	CR-5T						EL-40			CR-5T						CR-5T											
XB DATA RATE(MI)	160(32)						40(30)			160(32)						160(32)											
31 DSN COVERAGE	..... 40 .....												1800  ----- 14 [D] -----  2200  ----- 10 -----  ..... 40 .....														
32 DSN COVERAGE	..... 40 .....												1150  ----- 43 [D] -----  1605 ..... 40 .....														
S/C 32 INITIAL CONDITIONS RTLTL: 27h 46m 46s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 27h 46m 58s												0000 RTLTL 27h 47m 8s														
FDS MODE	CR-5T												CR-5T														
XB DATA RATE(MI)	160(32)												160(32)														
VGR COVERAGE	ON CALL												VGR			ON CALL											
NOTES	[1] S/C 31=D/L AGC & SNR VARIATIONS EXPECTED DURING ASCAL (2023-2100)												[3] S/C 31=CR-5T XB=160(32) @ 2104														
	[2] S/C 31=EL-40 @ 1951 XB=40(30)												[4] S/C 31=GS-4B @ 0232 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:	OCT 30												OCT 31														

ISSUE DATE: 10/31/12 16:31

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			
WEDNESDAY OCTOBER 31, 2012 305-306																												
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 34h 4m 28s												0000 RTLT 34h 4m 36s															
RTLT: 34h 4m 18s													0002 0003 AACS MRO ↓ 0004 AAI 0014 --- LECP OBS --- 0251 ↓ 0303 RAI 0318 0319 AACS MRO 0320 GYRO FAULT TEST															
CCSL: A085																												
FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON																												
FDS MODE													CR-5T															
XB DATA RATE(MI)													160(32)															
31 DSN COVERAGE													2345  ----- 14 [D] -----  0355  ----- 40 -----   ----- 60 -----															
32 DSN COVERAGE													1130  ----- 43 [D] -----  1600  ----- 40 -----															
S/C 32 INITIAL CONDITIONS	1200 RTLT 27h 47m 20s												0000 RTLT 27h 47m 32s															
RTLT: 27h 47m 8s																												
CCSL: B157																												
FDSL: 11AF TWNC: ON SB: OFF XB: HI 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:	OCT 31																	NOV 01										



ISSUE DATE: 10/31/12 16:31

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 1, 2012 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: 34h 4m 36s CCSL: A085 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON						█ 1200												█ 0000									
FDS MODE												CR-5T															
XB DATA RATE(MI)												160(32)															
31 DSN COVERAGE																											
32 DSN COVERAGE																											
S/C 32 INITIAL CONDITIONS RTLTL: 27h 47m 32s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25/ GYROS: OFF						█ 1200												█ 0000									
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 01														NOV 02												

ISSUE DATE: 10/31/12 16:31

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 2, 2012 307-308	
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: 34h 4m 54s CCSL: A085 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON	<p>1200 RTLT 34h 5m 4s</p> <p>0000 RTLT 34h 5m 12s</p> <p>↓ 1934 TEMP CRS CMD WORD UPD ↓ 2001 AAI</p> <p>2004  ----- MAGROL -----  0200 0530   TAPPOS</p> <p>↓ 0153 RAI ↓ 0154 CLEAR FIRST ↓ 0157 SET CALIB ↓ 0200 CRU ↓ 0200 GYROS STAY ON ↓ 0209 GYRO FAULT TEST ↓ 0212 RSTR CRS CMD WORDS</p>
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)
31 DSN COVERAGE	<p>1925  ----- 14 [D] -----  0255</p> <p>..... 40 .....  ----- 40 ----- </p> <p> ----- 60 ----- </p>
32 DSN COVERAGE	<p>1045  ----- 43 [o] -----  1550</p> <p>..... 40 .....  ----- 40 ----- </p>
S/C 32 INITIAL CONDITIONS RTLT: 27h 47m 52s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25/ GYROS: OFF	<p>1200 RTLT 27h 48m 4s</p> <p>0000 RTLT 27h 48m 14s</p>
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)
VGR COVERAGE	ON CALL VGR ON CALL
NOTES	[1] S/C 31 - D/L AGC & SNR VARIATIONS EXPECTED DURING MAGROL (2004-0159)
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 Page 9 of 19 NOV 03	

ISSUE DATE: 10/31/12 16:31

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
SATURDAY NOVEMBER 3, 2012 308-309	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: 34h 5m 12s CCSL: A085 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON	1200 RTLT 34h 5m 20s												0000 RTLT 34h 5m 30s												
↓ 0832 GS-4B 0833																									
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	..... 40 .....												2235  ----- 14 [D] -----  0155 10												
	..... 60 .....												1815  ----- 63 [D] -----  2015												
32 DSN COVERAGE	1115  ----- 43 [D] -----  1550 40												..... 40 .....												
S/C 32 INITIAL CONDITIONS RTLT: 27h 48m 14s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 27h 48m 26s												0000 RTLT 27h 48m 36s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE													ON CALL												
NOTES	[1] S/C 31=GS-4B @ 0832 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 03												NOV 04												

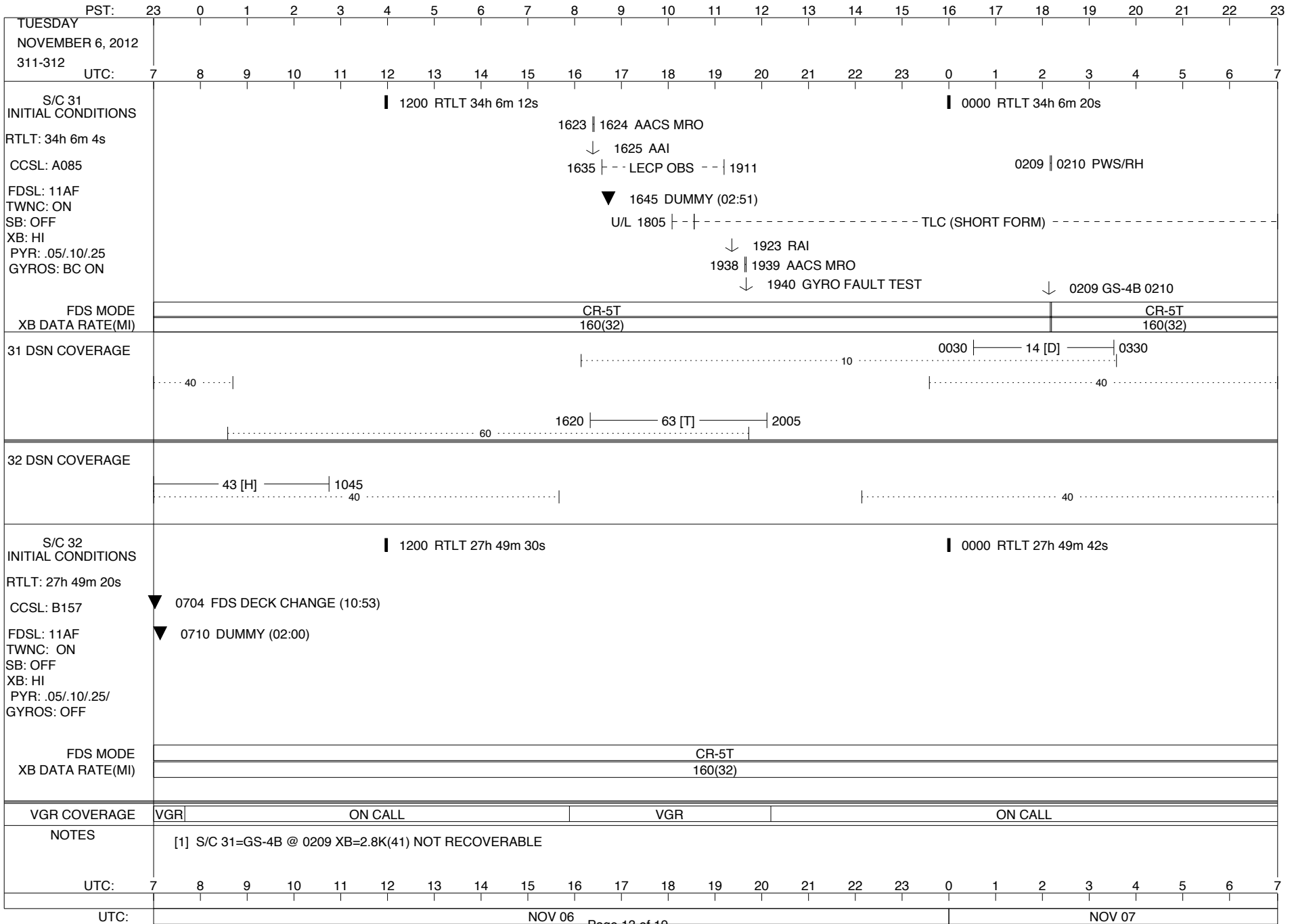
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SUNDAY NOVEMBER 4, 2012 309-310																								
S/C 31 INITIAL CONDITIONS RTLT: 34h 5m 30s CCSL: A085 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON	1200 RTLT 34h 5m 38s												0000 RTLT 34h 5m 46s											
FDS MODE	CR-5T												CR-5T											
XB DATA RATE(MI)	160(32)												160(32)											
31 DSN COVERAGE	<p>..... 40 .....   ..... 2335  ----- 14 [D] -----  0335</p> <p>..... 40 .....   ..... 1845  --- 63 [D] ---  2015</p> <p>..... 60 .....   ..... 40</p>																							
32 DSN COVERAGE	<p>..... 40 .....   ..... 1130  ----- 43 [D] -----  1545</p> <p>..... 40 .....   ..... 40</p>																							
S/C 32 INITIAL CONDITIONS RTLT: 27h 48m 36s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 27h 48m 48s												0000 RTLT 27h 48m 58s											
FDS MODE	CR-5T												CR-5T											
XB DATA RATE(MI)	160(32)												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
UTC:	NOV 04												NOV 05											

ISSUE DATE: 10/31/12 16:31

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 5, 2012 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 34h 5m 56s												0000 RTLT 34h 6m 4s																
RTLT: 34h 5m 46s																													
CCSL: A085																													
FDSL: 11AF																													
TWNC: ON																													
SB: OFF																													
XB: HI																													
PYR: .05/.10/.25																													
GYROS: BC ON																													
FDS MODE															CR-5T														
XB DATA RATE(MI)															160(32)														
31 DSN COVERAGE																													
32 DSN COVERAGE																													
S/C 32 INITIAL CONDITIONS	1200 RTLT 27h 49m 10s												0000 RTLT 27h 49m 20s																
RTLT: 27h 48m 58s																													
CCSL: B157																													
FDSL: 11AF																													
TWNC: ON																													
SB: OFF																													
XB: HI																													
PYR: .05/.10/.25/																													
GYROS: OFF																													
FDS MODE															CR-5T														
XB DATA RATE(MI)															160(32)														
VGR COVERAGE																												ON CALL	VGR
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 05														NOV 06														

ISSUE DATE: 10/31/12 16:31



ISSUE DATE: 10/31/12 16:31

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 7, 2012  
312-313 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: 34h 6m 20s  
CCSL: A085  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: HI  
PYR: .05/.10/.25  
GYROS: BC ON  
1200 RTLT 34h 6m 28s  
0000 RTLT 34h 6m 38s  
1825 | PLSCAL - | 2007  
1825 | --- MAGCAL --- | 2127  
1825 | --- PESCAL --- | 2145  
----- TLC (SHORT FORM) ----- | D/L - | 0539  
↓ 0234 X/B LOW POWER  
↓ 0238 BAY 1 HTR ON

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

31 DSN COVERAGE  
1800 |----- 14 [D] -----| 2200  
|----- 10 -----| 0200 | 14 [D] | 0300  
|----- 40 -----|  
|----- 60 -----|

32 DSN COVERAGE  
0750 |----- 43 [D] -----| 1140  
|----- 40 -----| |----- 40 -----|

S/C 32  
INITIAL CONDITIONS  
RTLT: 27h 49m 42s  
CCSL: B157  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: HI  
PYR: .05/.10/.25/  
GYROS: OFF  
1200 RTLT 27h 49m 52s  
0000 RTLT 27h 50m 2s  
\*  
↓ 1054 FDS DECK CHANGE

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

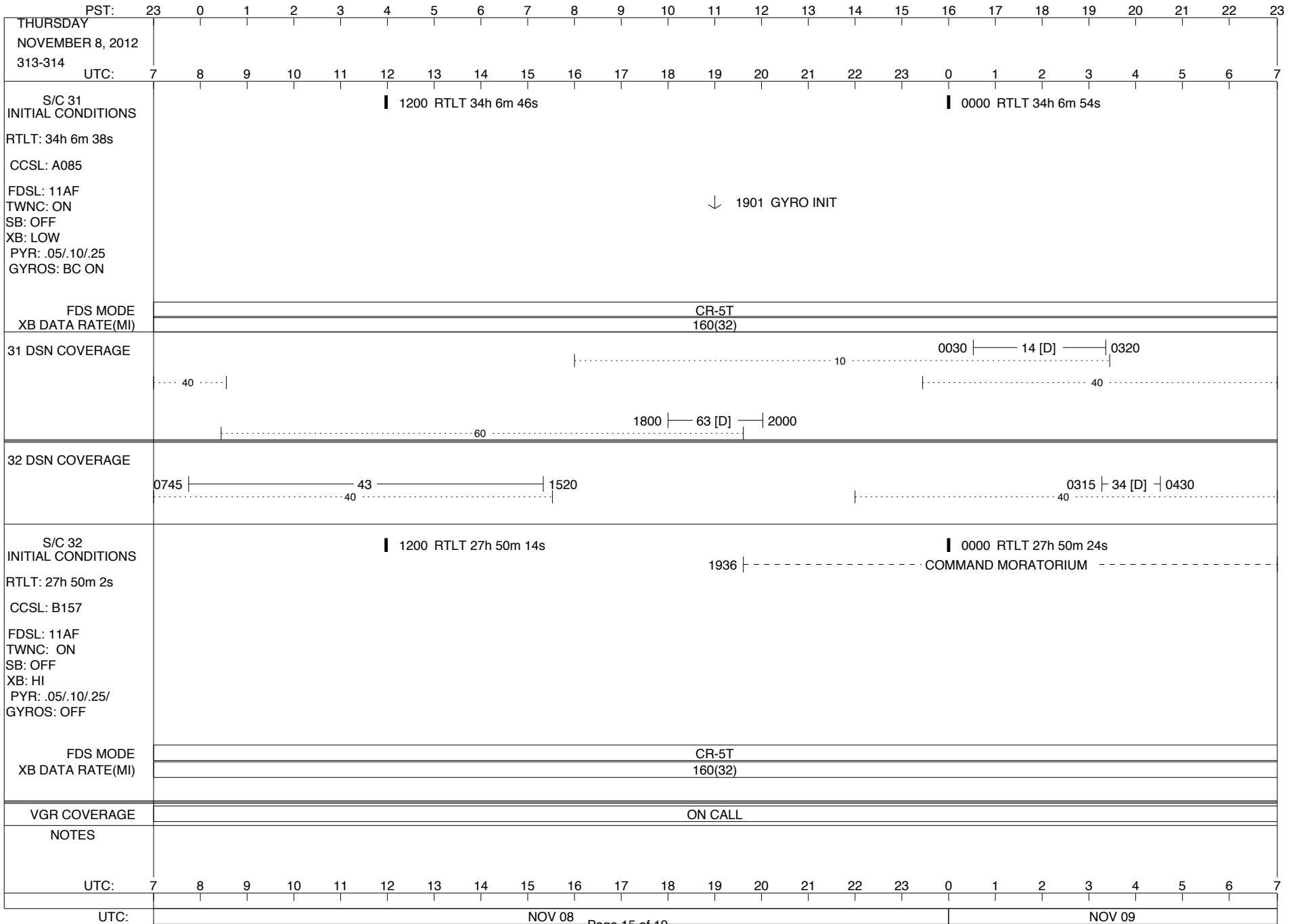
VGR COVERAGE ON CALL VGR ON CALL

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 07 Page 14 of 19 NOV 08

ISSUE DATE: 10/31/12 16:31





ISSUE DATE: 10/31/12 16:31

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 9, 2012  
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: 34h 6m 54s  
CCSL: A085  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: BC ON  
1200 RTLT 34h 7m 2s  
0000 RTLT 34h 7m 10s  
0507 - 0629 | TAPPOS |

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

31 DSN COVERAGE  
40 ..... | ..... 10 ..... 0000 | 14 [D] ..... 0320  
..... 40 .....  
1655 | 63 [D] ..... 1955  
..... 60 .....

32 DSN COVERAGE  
1100 | 43 [D] ..... 1525  
..... 40 .....

S/C 32  
INITIAL CONDITIONS  
RTLT: 27h 50m 24s  
CCSL: B157  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: HI  
PYR: .05/.10/.25/  
GYROS: OFF  
1200 RTLT 27h 50m 34s  
0000 RTLT 27h 50m 46s  
----- COMMAND MORATORIUM -----

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

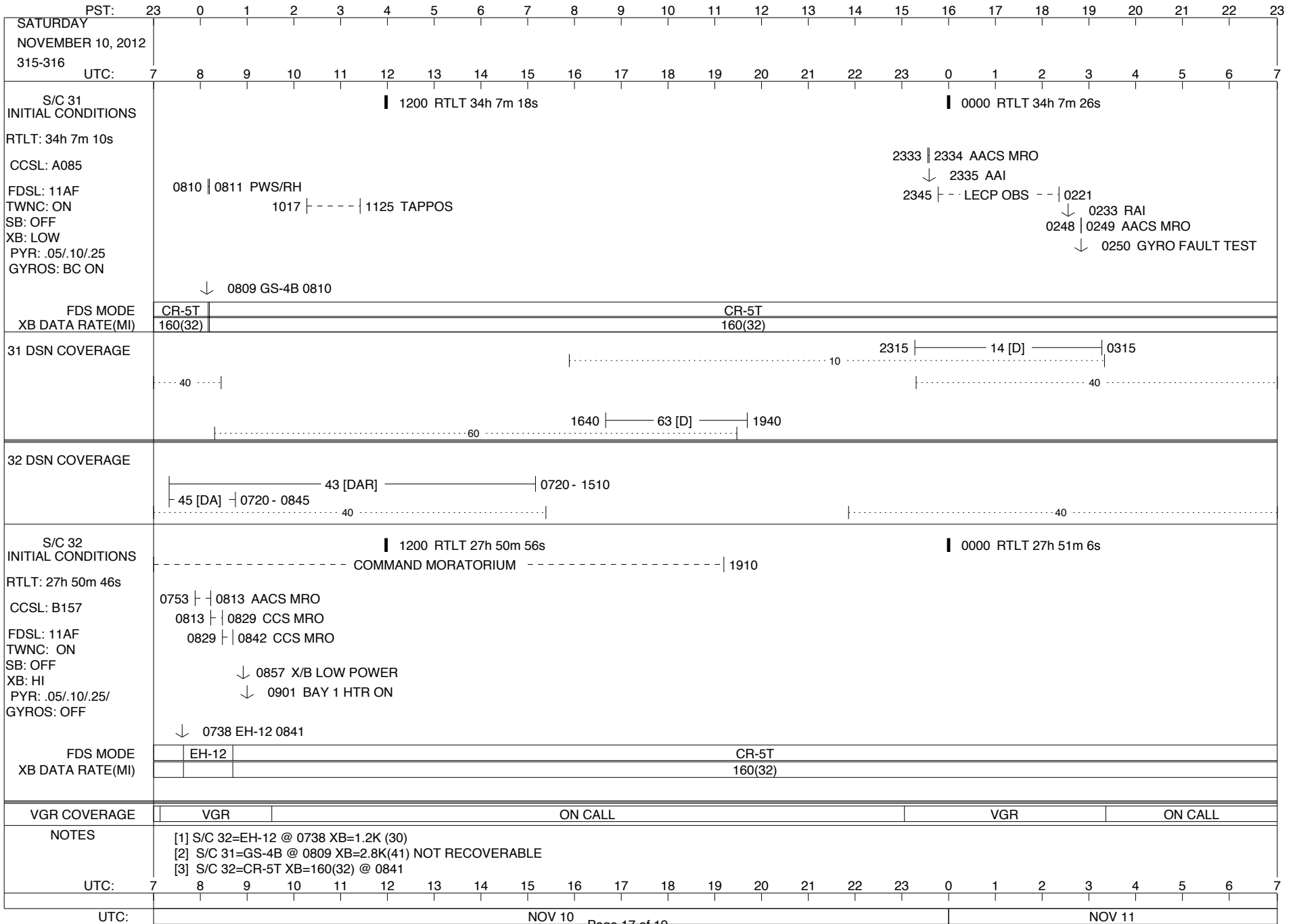
VGR COVERAGE ON CALL

NOTES

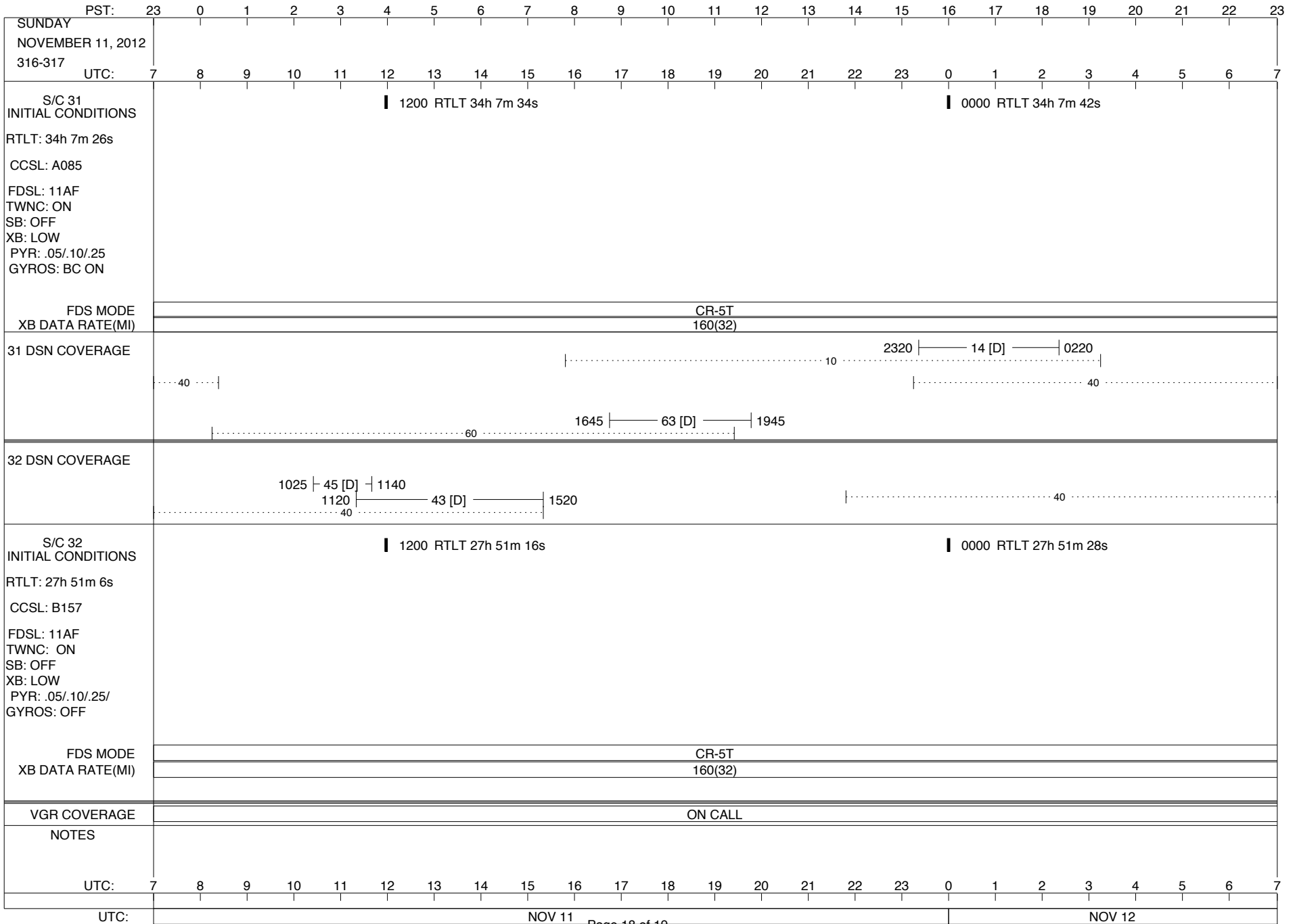
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UTC: NOV 09 NOV 10

ISSUE DATE: 10/31/12 16:31



ISSUE DATE: 10/31/12 16:31



ISSUE DATE: 10/31/12 16:31

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 12, 2012 317-318	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: 34h 7m 42s CCSL: A085 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: BC ON	1200 RTLTL 34h 7m 48s																								
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
31 DSN COVERAGE	1545  -----  14 [D] -----  2045 .... 40 ....   .....60.....																								
32 DSN COVERAGE	0935  -----  34 [D] -----  1335 .....40.....																								
S/C 32 INITIAL CONDITIONS RTLTL: 27h 51m 28s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 27h 51m 38s																								
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 12												NOV 13												