

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: October 22, 2014

For the Period: 10/23/14 to 11/10/14 (14-296 – 14-314)

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

**DSOT (1) 230-102**

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**OTHER**

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 \* Belinda.Arroyo@jpl.nasa.gov  
 \*DL-DSSN-MPSETA@dsn.nasa.gov

**SCIENCE**

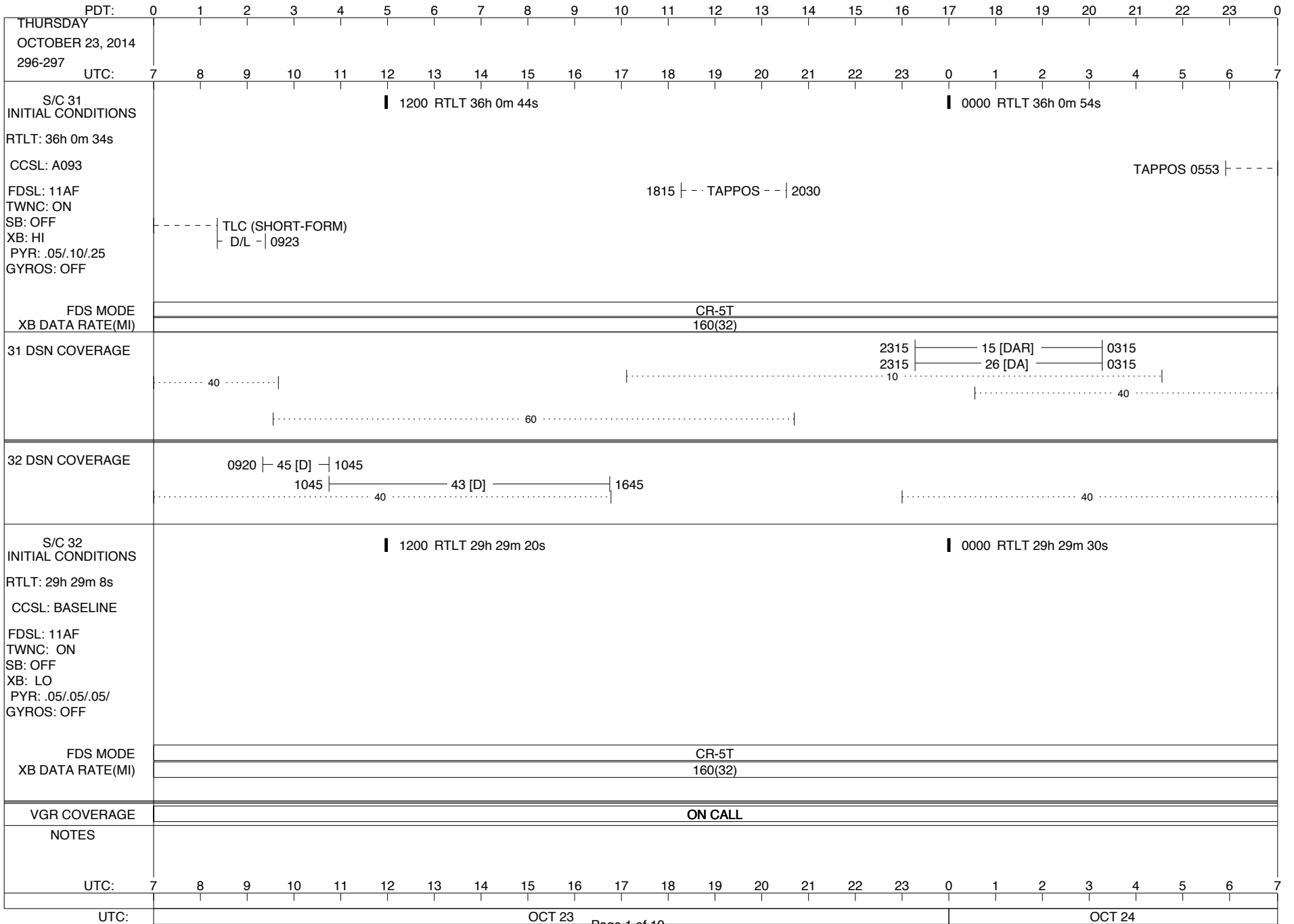
CRS \*bryant@mail630.gsfc.nasa.gov  
 LECP \*r.decker@jhupl.edu  
 UVS \*holburg@argus.lpl.arizona.edu  
 MAG \*u2mha@lepvox.gsfc.nasa.gov  
 PLS \*vgr@space.mit.edu  
 PWS \*wsk@space.physics.uiowa.edu  
 \*Leonard.F.Burlaga@nasa.gov  
 \*Donald-Gurnett@uiowa.edu

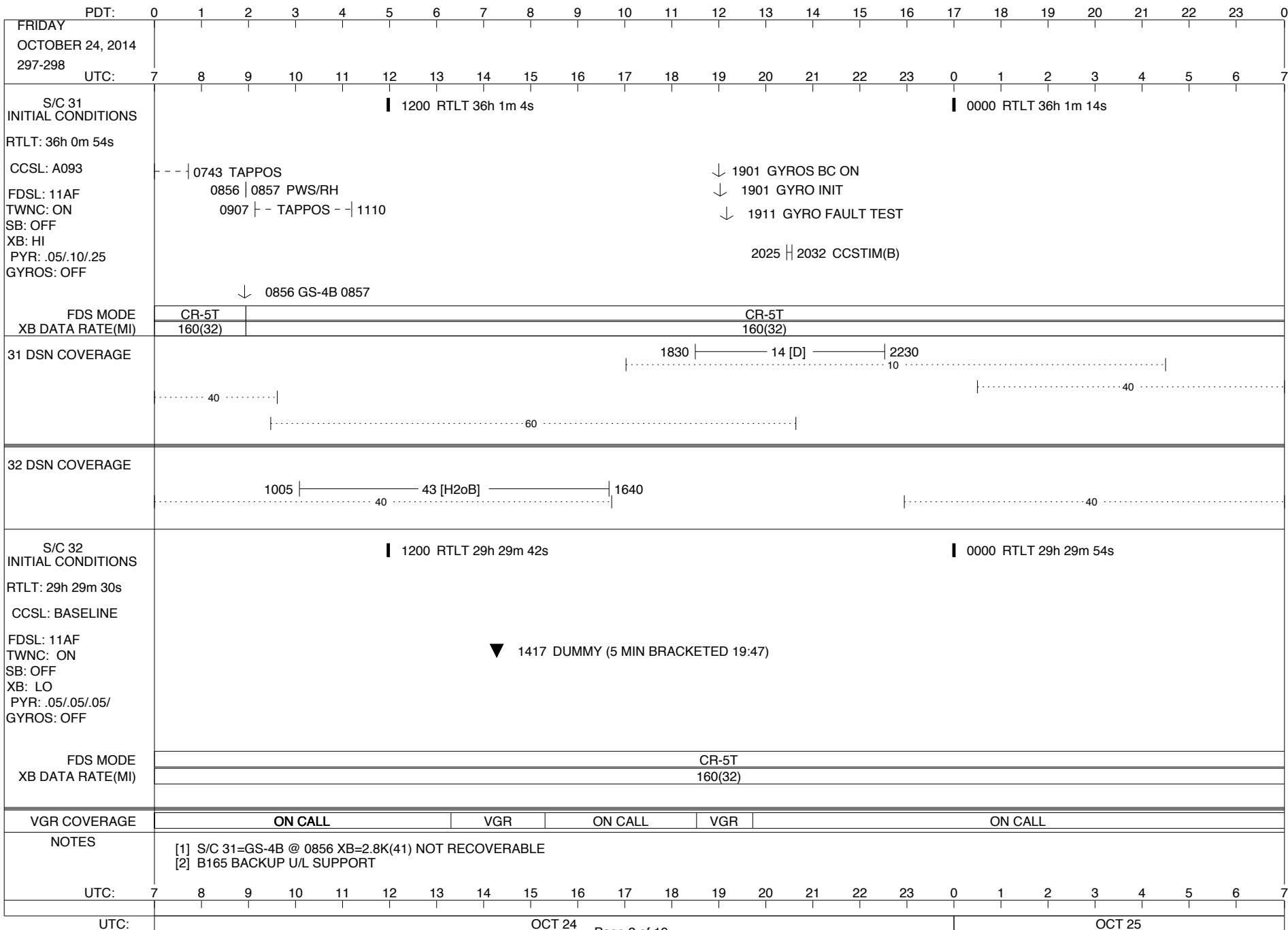
**FLIGHT TEAM (14) 600-100**

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

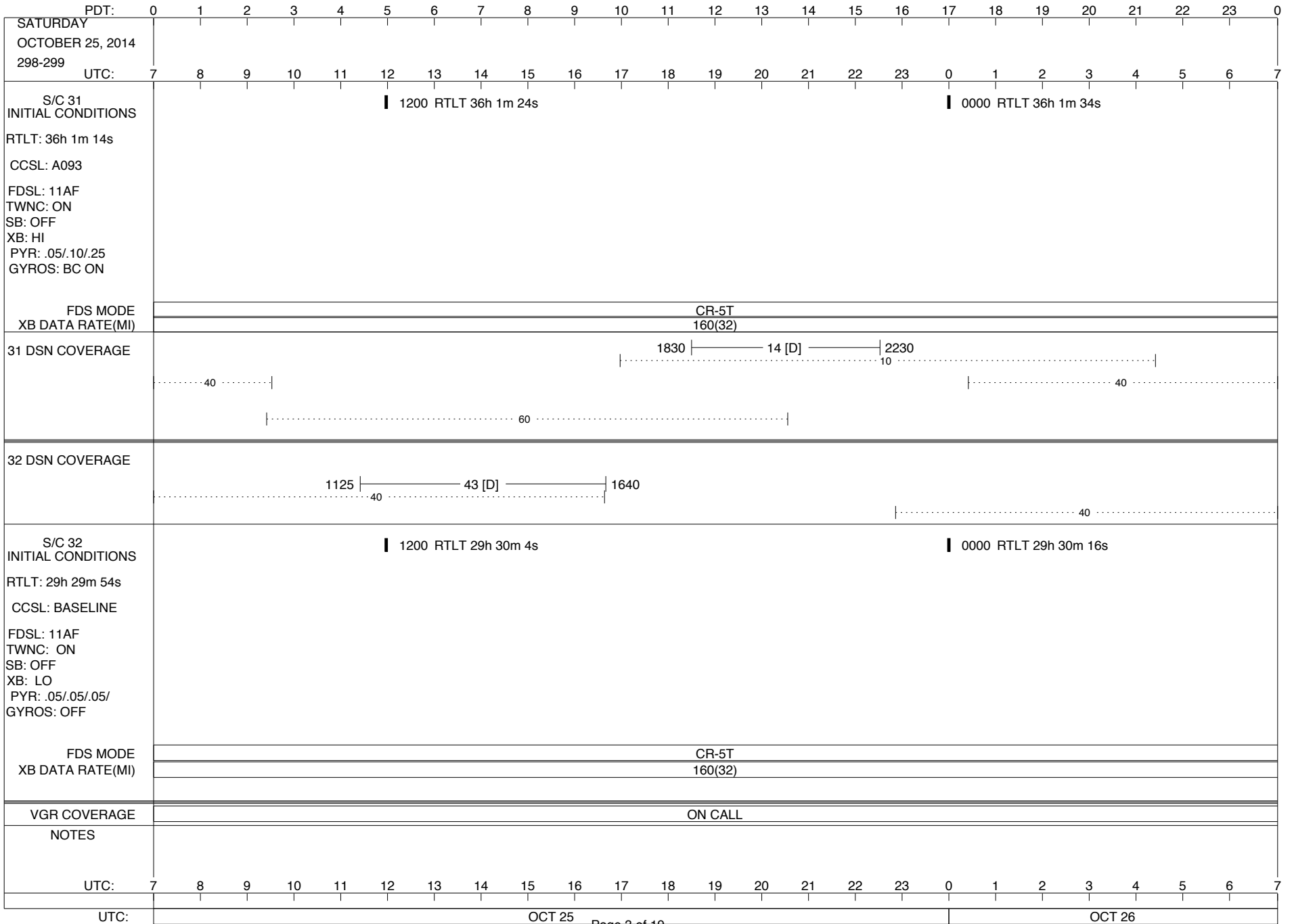
**LEGEND:**  
 ▽ = R/T Command (Last chance or Contingency)  
 ▼ = R/T Command (Scheduled)  
 \* = Result of R/T Command  
 n = (where n = 1,2,3 ..) Special Note, see bottom of page  
 A = Arrayed station  
 B = BLF  
 D = Downlink only pass  
 H = High Power Transmitter  
 R = Array Reference Antenna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

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



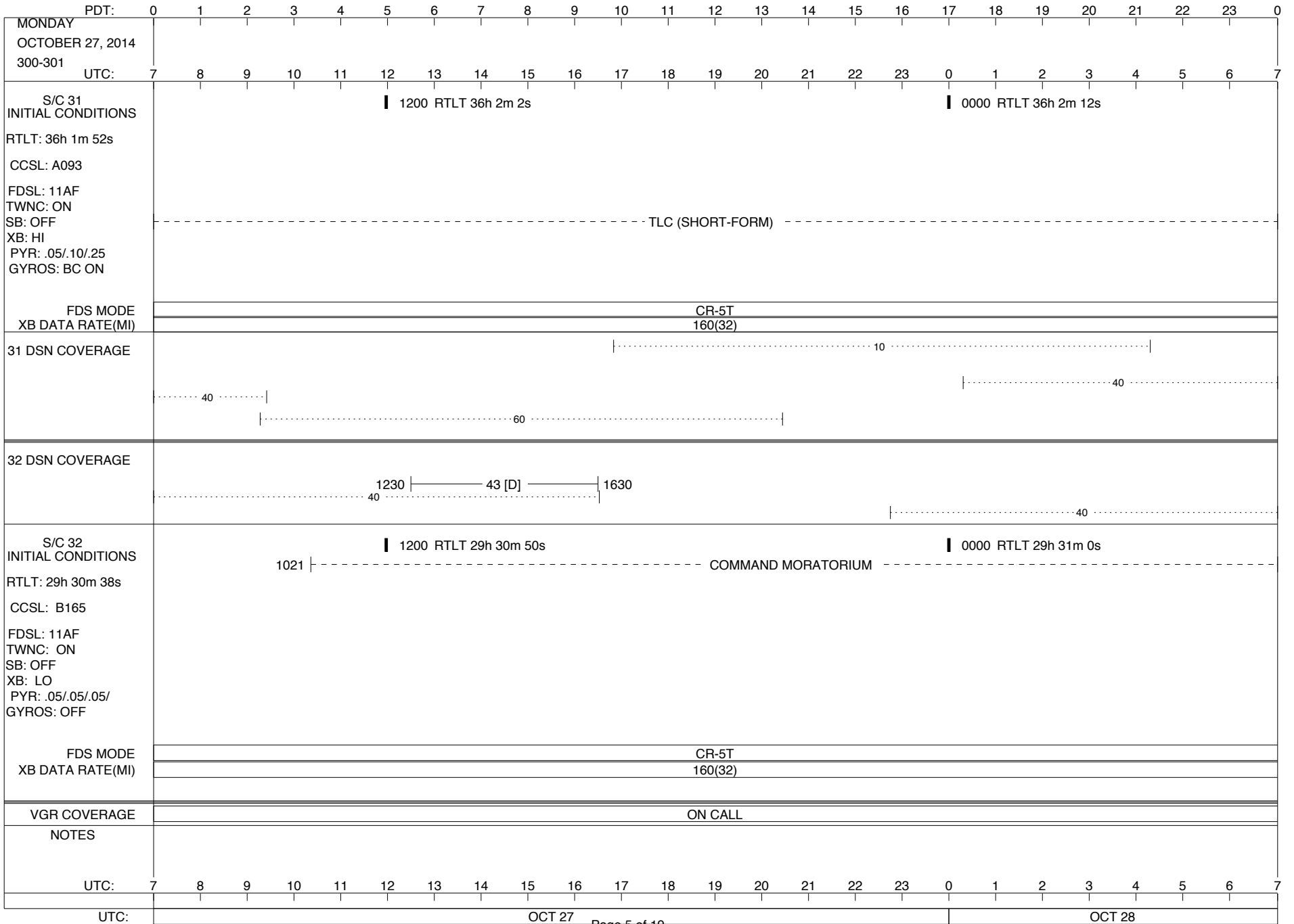


ISSUE DATE: 10/22/14 13:13



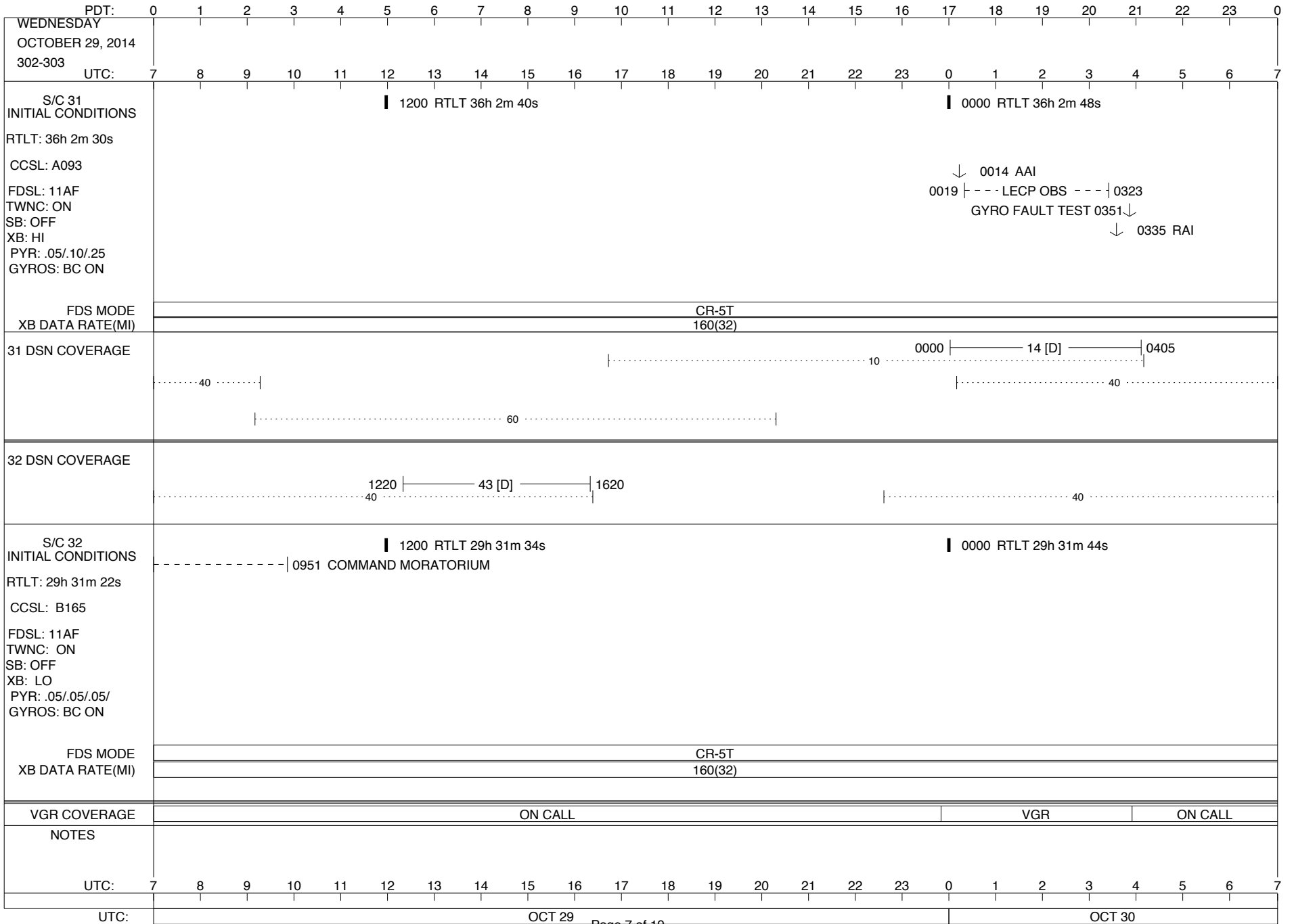
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SUNDAY OCTOBER 26, 2014 299-300																										
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
S/C 31 INITIAL CONDITIONS RTLTL: 36h 1m 34s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/10/25 GYROS: BC ON	█ 1200 RTLTL 36h 1m 42s												█ 0000 RTLTL 36h 1m 52s													
	0854   - TAPPOS - -   1057												1156   1157 PWS/RH													
													1207   - - TAPPOS - -   1424													
													U/L 0615 - 0642   -   TLC (SHORT-FORM)   -													
													↓ 1156 GS-4B 1157													
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
31 DSN COVERAGE	..... 40 .....												1830  ----- 14 [D] -----  2230 ..... 10 .....													
	..... 60 .....												0255 - 0645  ----- 43 [T] -----  ..... 40 .....													
32 DSN COVERAGE	1015  ----- 45 [D] -----  1250												..... 40 .....													
	..... 40 .....												1230  ----- 43 [D] -----  1635													
S/C 32 INITIAL CONDITIONS RTLTL: 29h 30m 16s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LO PYR: .05/05/05/ GYROS: OFF	█ 1200 RTLTL 29h 30m 26s												█ 0000 RTLTL 29h 30m 38s													
													↓ 0027 BEGIN SEQUENCE B165													
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
VGR COVERAGE													ON CALL													
NOTES	[1] S/C 31=GS-4B @ 1156 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 26														OCT 27											

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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 28, 2014 301-302																														
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: 36h 2m 12s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON	1200 RTLTL 36h 2m 20s												0000 RTLTL 36h 2m 30s																	
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	1845  -----  14 10  -----  2230												40  -----  40																	
32 DSN COVERAGE	1110  -----  45 [D]  -----  1245												1235  -----  43 [D]  -----  1620																	
S/C 32 INITIAL CONDITIONS RTLTL: 29h 31m 0s CCSL: B165 FDSL: 11AF TWNC: ON SB: OFF XB: LO PYR: .05/.05/.05/ GYROS: OFF	1200 RTLTL 29h 31m 12s												0000 RTLTL 29h 31m 22s																	
FDS MODE	CR-5T																													
XB DATA RATE(MI)	160(32)																													
VGR COVERAGE	ON CALL						VGR						ON CALL						VGR						ON CALL					
NOTES	[1] S/C 31 - D/L /SNR VARIATIONS EXPECTED DURING ASCAL (2034-2111) [2] S/C 31=EL-40 @ 2002 XB=40(30) [3] S/C 31=GS-4B @ 0219 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 28												OCT 29																	

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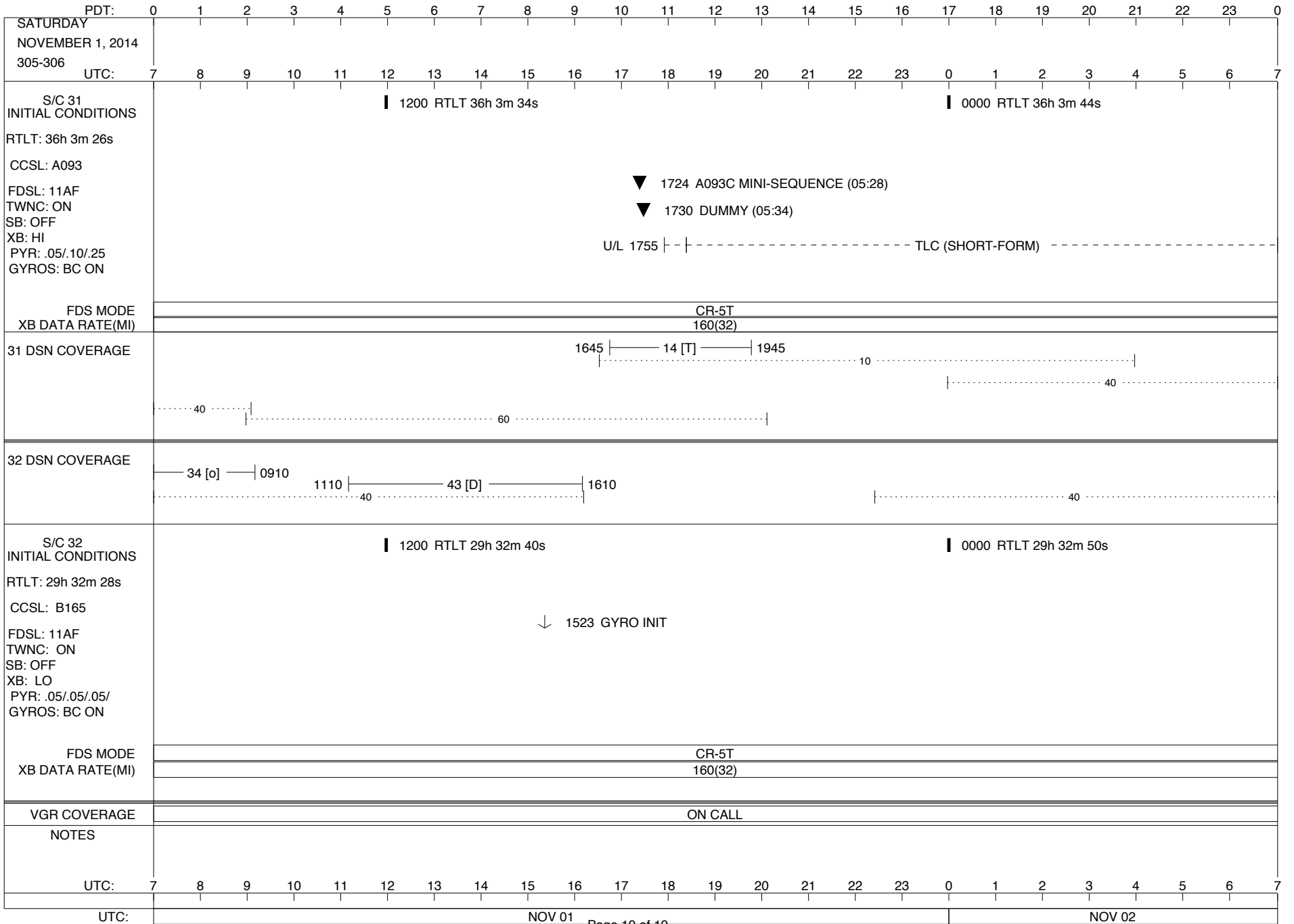


ISSUE DATE: 10/22/14 13:13

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 30, 2014 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: 36h 2m 48s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON						█ 1200 RTLT 36h 2m 58s												█ 0000 RTLT 36h 3m 8s									
FDS MODE													CR-5T														
XB DATA RATE(MI)													160(32)														
31 DSN COVERAGE	..... 40 .....												..... 10 .....														
	..... 60 .....												..... 40 .....														
	..... 0430 - 0630   35 [D]   .....																										
32 DSN COVERAGE	..... 1035   40   43 [B]   1615 .....												..... 40 .....														
S/C 32 INITIAL CONDITIONS RTLT: 29h 31m 44s CCSL: B165 FDSL: 11AF TWNC: ON SB: OFF XB: LO PYR: .05/.05/.05/ GYROS: BC ON						█ 1200 RTLT 29h 31m 56s												█ 0000 RTLT 29h 32m 6s									
													▼ 1417 DUMMY (5 MIN BRACKETED 19:49)														
													↓ 1523 GYRO INIT														
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 30														OCT 31												

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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 OCTOBER 31, 2014 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: 36h 3m 8s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON	<p>1200 RTLT 36h 3m 16s</p> <p>0000 RTLT 36h 3m 26s</p> <p>↓ 2012 AAI 2015  ----- MAGROL -----  0210</p> <p>↓ 0203 RAI ↓ 0210 CRU ↓ 0210 GYROS STAY ON ↓ 0220 GYRO FAULT TEST</p> <p>↓ 0832 GS-4B 0834</p> <p>0734 TAPPOS 0833   0834 PWS/RH 0844   - TAPPOS -   1033</p>				
FDS MODE XB DATA RATE(MI)	<table border="1"> <tr> <td>CR-5T</td> <td>CR-5T</td> </tr> <tr> <td>160(32)</td> <td>160(32)</td> </tr> </table>	CR-5T	CR-5T	160(32)	160(32)
CR-5T	CR-5T				
160(32)	160(32)				
31 DSN COVERAGE	<p>1930  ----- 14 [DA] -----  0335</p> <p>1930  ----- 15 [DA] -----  0315</p> <p>1930  ----- 25 [DAR] -----  0315</p> <p>----- 10 -----</p> <p>40 ----- 60 ----- 40</p>				
32 DSN COVERAGE	<p>1030  ----- 43 [D] -----  1555</p> <p>----- 40 ----- 40</p> <p>0550  ----- 34 [o] -----</p>				
S/C 32 INITIAL CONDITIONS RTLTL: 29h 32m 6s CCSL: B165 FDSL: 11AF TWNC: ON SB: OFF XB: LO PYR: .05/.05/.05/ GYROS: BC ON	<p>1200 RTLT 29h 32m 18s</p> <p>0000 RTLT 29h 32m 28s</p>				
FDS MODE XB DATA RATE(MI)	<table border="1"> <tr> <td>CR-5T</td> </tr> <tr> <td>160(32)</td> </tr> </table>	CR-5T	160(32)		
CR-5T					
160(32)					
VGR COVERAGE	<table border="1"> <tr> <td>ON CALL</td> <td>VGR</td> <td>ON CALL</td> </tr> </table>	ON CALL	VGR	ON CALL	
ON CALL	VGR	ON CALL			
NOTES	<p>[1] S/C 31=GS-4B @ 0832 XB=2.8K(41) NOT RECOVERABLE</p> <p>[2] S/C 31=D/L AGC &amp; SNR VARIATIONS EXPECTED DURING MAGROL (2015-0210)</p>				
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 -----					





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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 3, 2014  
307-308  
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: 36h 4m 0s  
CCSL: A093  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: HI  
PYR: .05/.10/.25  
GYROS: BC ON  
1200 RTLT 36h 4m 10s  
0000 RTLT 36h 4m 18s  
0323 AAI  
0328 - 0632 | --- LECP OBS --- |  
RAI 0644 ↓  
TLC (SHORT-FORM)  
D/L - | 0727

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

31 DSN COVERAGE  
0635 43 [D]  
40  
0310 43 [D]  
40  
60

32 DSN COVERAGE  
1130 43 [D] 1600  
40  
40

S/C 32  
INITIAL CONDITIONS  
RTLT: 29h 33m 12s  
CCSL: B165  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LO  
PYR: .05/.05/.05/  
GYROS: BC ON  
1200 RTLT 29h 33m 24s  
0000 RTLT 29h 33m 34s  
COMMAND MORATORIUM  
1523 GYRO INIT

FDS MODE  
XB DATA RATE(MI) CR-5T  
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 03 Page 12 of 19 NOV 04





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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 6, 2014 310-311	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: 36h 4m 54s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON	1200 RTLT 36h 5m 2s												0000 RTLT 36h 5m 10s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	.....												.....												
	.....40.....												0125  ----- 43 [D] -----  0445 0435 - 0640  ----- 34 [D] -----												
32 DSN COVERAGE	0820  ----- 43 [D] -----  1550												.....40.....												
S/C 32 INITIAL CONDITIONS RTLT: 29h 34m 18s CCSL: B165 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.05/.05/ GYROS: OFF	1200 RTLT 29h 34m 28s												0000 RTLT 29h 34m 38s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												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 06												NOV 07												



		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 7, 2014 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	7	
S/C 31 INITIAL CONDITIONS RTLTL: 36h 5m 10s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON		1200 RTLTL 36h 5m 18s													0000 RTLTL 36h 5m 26s													
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)													CR-5T 160(32)													
31 DSN COVERAGE		..... 10 .....													..... 40 ..... 0440  —— 43 [2] ——													
32 DSN COVERAGE		..... 40 .....													..... 40 ..... 1145  —— 43 [D] ——   1545   ..... 40 ..... 34 [o] 0610													
S/C 32 INITIAL CONDITIONS RTLTL: 29h 34m 38s CCSL: B165 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.05/.05/ GYROS: OFF		1200 RTLTL 29h 34m 50s													0000 RTLTL 29h 35m 0s													
FDS MODE XB DATA RATE(MI)															CR-5T 160(32)													
VGR COVERAGE															ON CALL													
NOTES		[1] S/C 31=GS-4B @ 0809 XB=2.8K(41) NOT RECOVERABLE [2] A093C BACKUP UPLINK SUPPORT																										
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															NOV 08											

ISSUE DATE: 10/22/14 13:13

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 8, 2014 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: 36h 5m 26s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON						█ 1200 RTLT 36h 5m 36s																				
FDS MODE XB DATA RATE(MI)																										
31 DSN COVERAGE																										
32 DSN COVERAGE																										
S/C 32 INITIAL CONDITIONS RTLT: 29h 35m 0s CCSL: B165 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.05/.05/ GYROS: OFF						█ 1200 RTLT 29h 35m 10s																				
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 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
MONDAY NOVEMBER 10, 2014 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	1200 RTLT 36h 6m 8s																								
RTLTL: 36h 6m 0s																									
CCSL: A093																									
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	<p>..... 40 ..... </p> <p> ..... 60 ..... </p>																								
32 DSN COVERAGE	<p>..... 1135  ----- 43 [D] -----  1535</p> <p>..... 40 ..... </p>																								
S/C 32 INITIAL CONDITIONS	1200 RTLT 29h 35m 52s																								
RTLTL: 29h 35m 42s																									
CCSL: B165																									
FDSL: 11AF																									
TWNC: ON																									
SB: OFF																									
XB: LOW																									
PYR: .05/.05/.05/																									
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 10												NOV 11												