

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: October 15, 2014

For the Period: 10/16/14 to 11/03/14 (14-289 – 14-307)

**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**

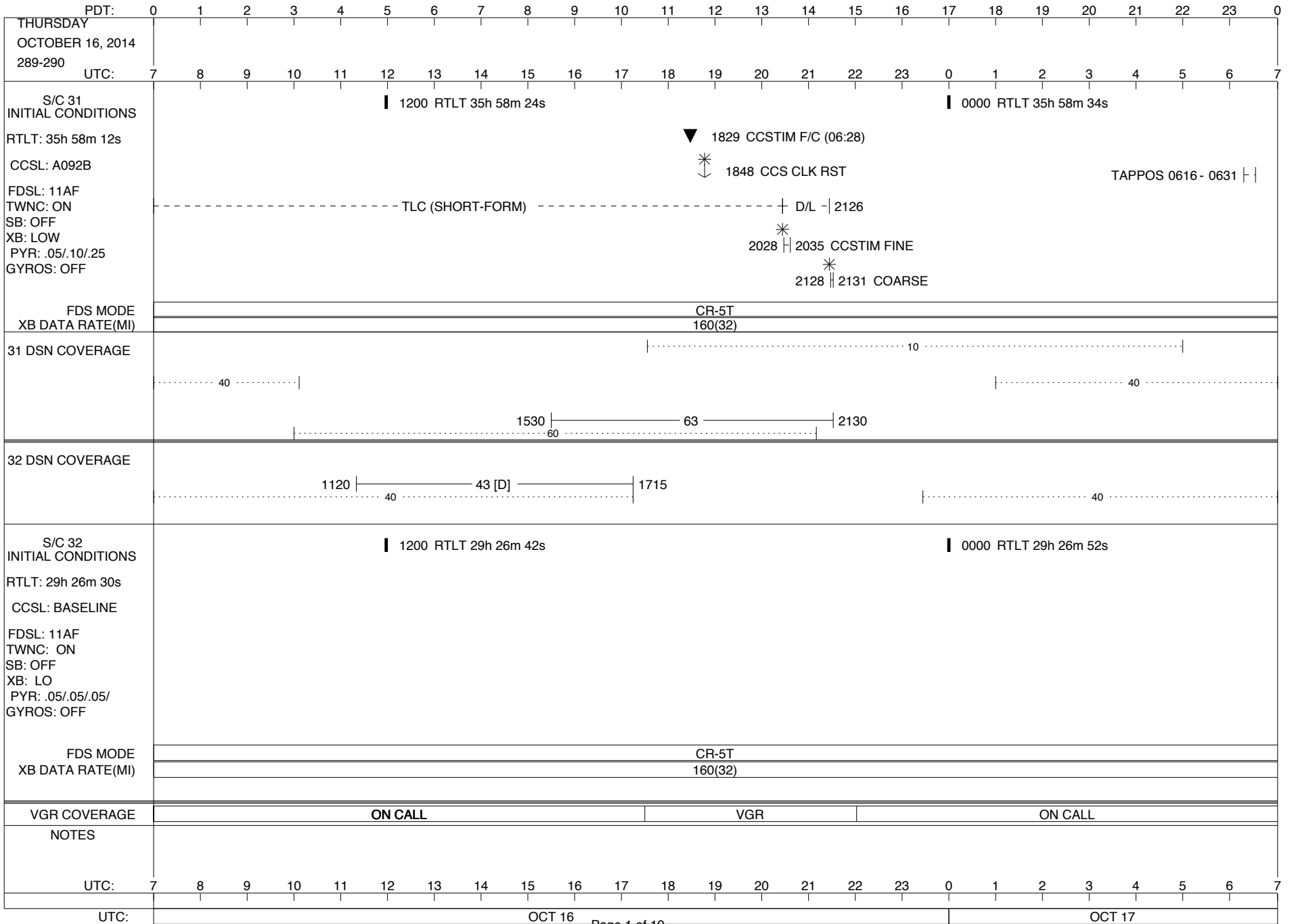
CRS \*bryant@mail630.gsfc.nasa.gov  
 LECP \*r.decker@jhupl.edu  
 UVS \*holburg@argus.lpl.arizona.edu  
 MAG \*u2mha@lepvox.gsfc.nasa.gov  
 PLS \*vgr@space.mit.edu  
 PWS \*wsk@space.physics.uiowa.edu  
 \*Leonard.F.Burlaga@nasa.gov  
 \*Donald-Gurnett@uiowa.edu

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

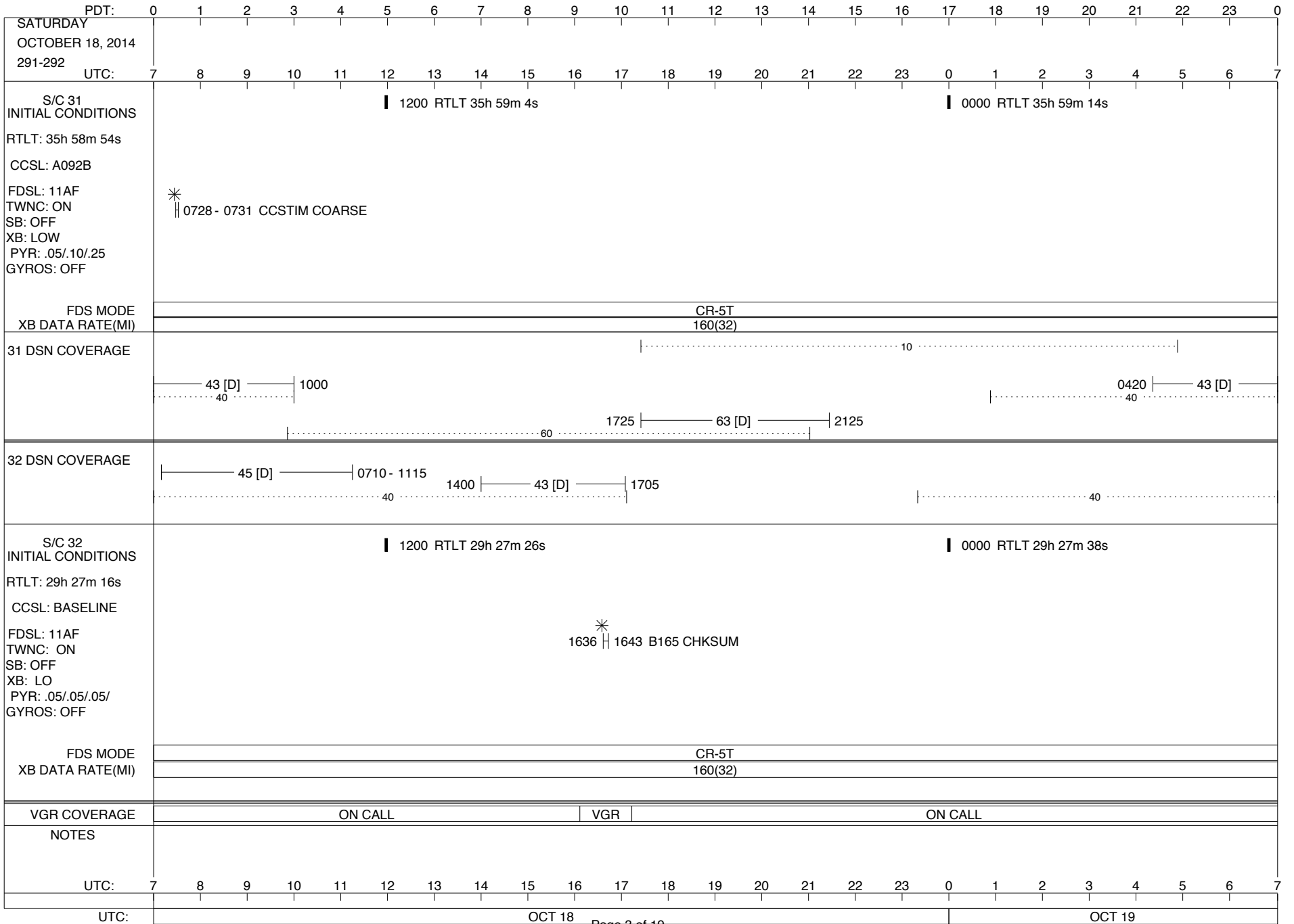
Dodd, S.  
 Hall, J.  
 Howard, S. (3)  
 Ludwig, R. (2)  
 Matsumoto, S.  
 Medina  
 Peralta, F.  
 Weeks, T.  
 Wong, R.  
 Yang, L.  
 Zottarelli, L.  
 \*odivers@san.rr.com

**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

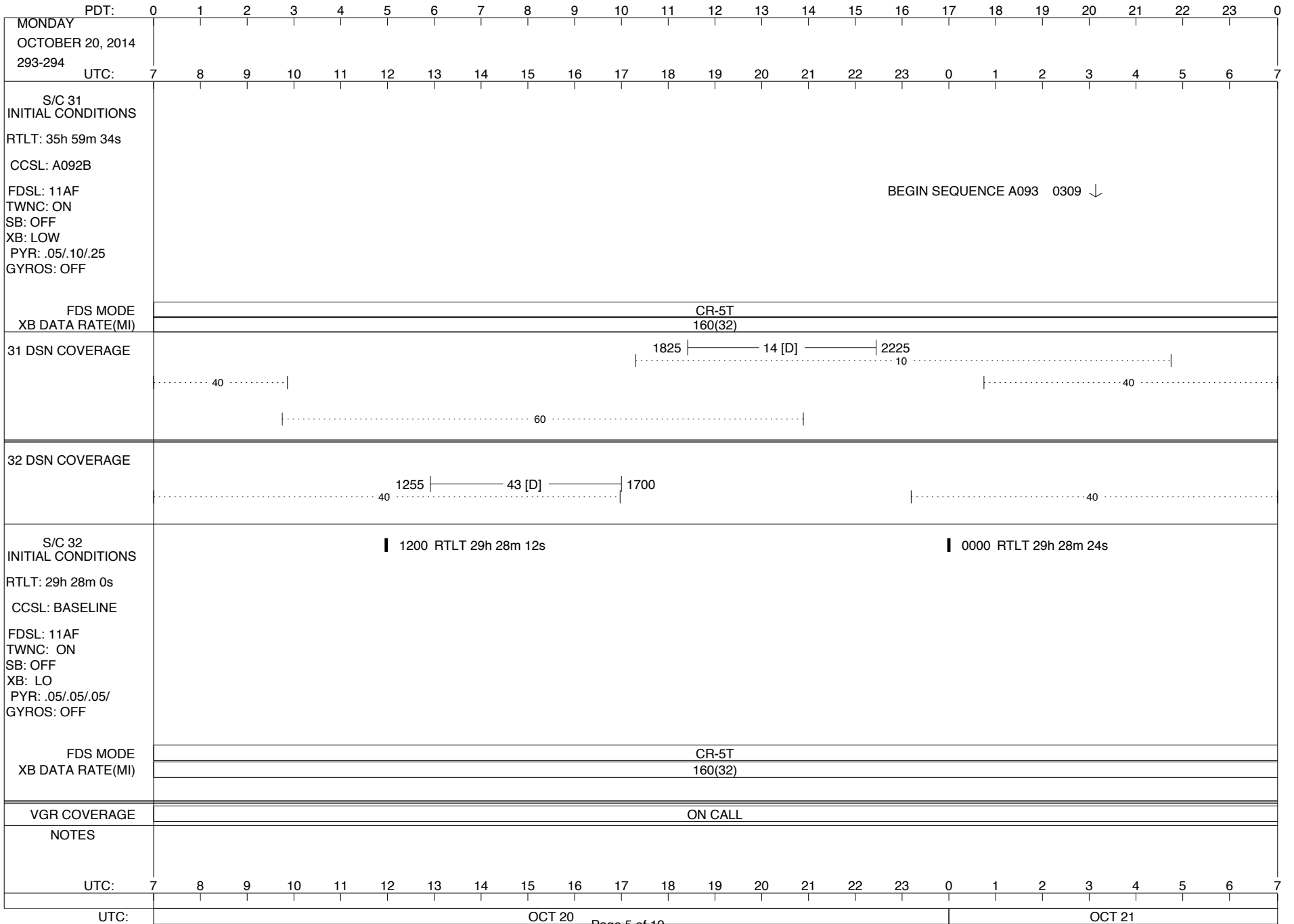


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S/C 31 INITIAL CONDITIONS RTLTL: 35h 58m 34s CCSL: A092B FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 35h 58m 44s												0000 RTLTL 35h 58m 54s												
0918   0919 PWS/RH 0930   0931 TAPPOS	CCSTIM FINE 0628 - 0635 *																								
↓ 0918 GS-4B 0919																									
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)											CR-5T 160(32)													
31 DSN COVERAGE	<p>..... 40 .....   ..... 10 .....  </p> <p>..... 40 .....   ..... 0550   43 [D]  </p> <p>..... 1725   ..... 63 [D] .....   2125</p> <p>..... 60 .....  </p>																								
32 DSN COVERAGE	<p>..... 1045   ..... 43 [H] .....   1555</p> <p>..... 40 .....   ..... 40 .....  </p>																								
S/C 32 INITIAL CONDITIONS RTLTL: 29h 26m 52s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LO PYR: .05/.05/.05/ GYROS: OFF	1200 RTLTL 29h 27m 4s												0000 RTLTL 29h 27m 16s												
▼ 1104 CCSL B165 (16:31) ▼ 1130 DUMMY (16:57)																									
FDS MODE XB DATA RATE(MI)												CR-5T 160(32)													
VGR COVERAGE	ON CALL							VGR							ON CALL										
NOTES	[1] S/C 31=GS-4B @ 0918 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 17														OCT 18										



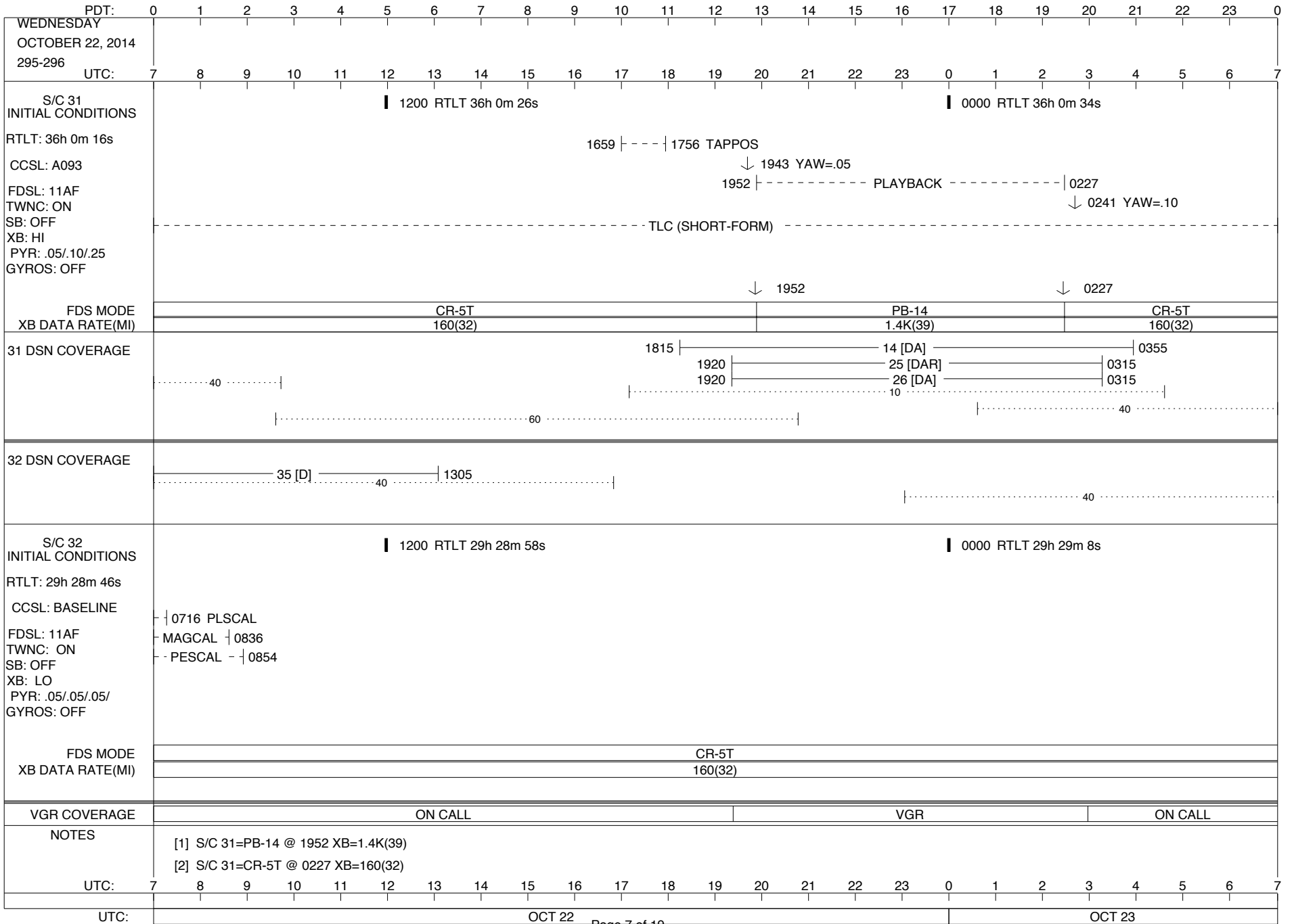
ISSUE DATE: 10/20/14 14:16

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SUNDAY OCTOBER 19, 2014 292-293	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: 35h 59m 14s CCSL: A092B FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 35h 59m 24s												0000 RTLTL 35h 59m 34s													
0917    0918 TAPPOS 1218   1220 PWS/RH 1230   1243 TAPPOS ↓ 1218 GS-4B 1220																										
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)													
31 DSN COVERAGE	0735 43 [D] 40 0950   1115 63 [deleted] 60 2025   2120 63 [D]												40													
32 DSN COVERAGE	1110   43 [D]   1625 40												40													
S/C 32 INITIAL CONDITIONS RTLTL: 29h 27m 38s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LO PYR: .05/.05/.05/ GYROS: OFF	1200 RTLTL 29h 27m 50s												0000 RTLTL 29h 28m 0s													
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)													
VGR COVERAGE													ON CALL													
NOTES	[1] S/C 31=GS-4B @ 1218 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 19														OCT 20											

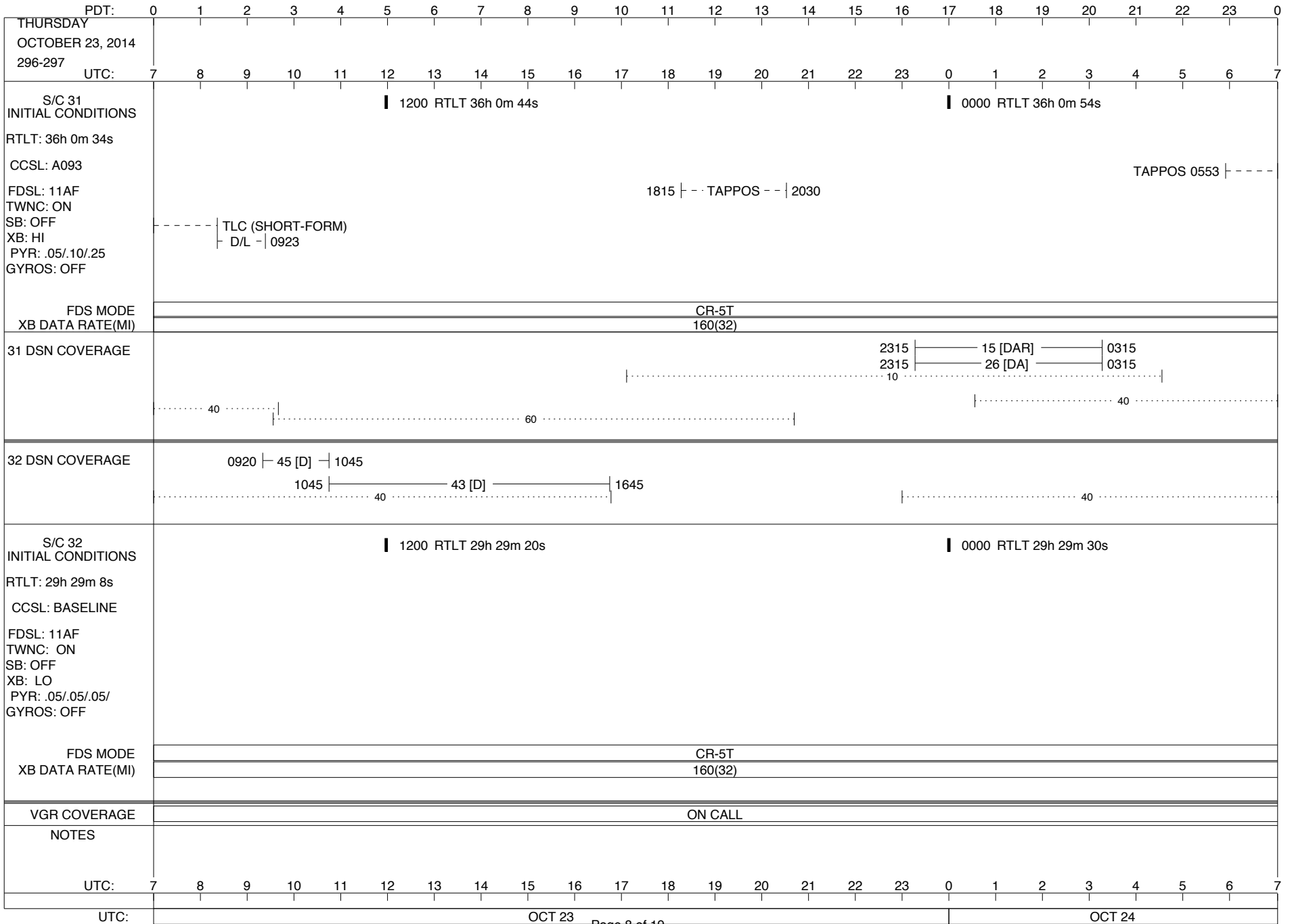


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TUESDAY																											
OCTOBER 21, 2014																											
294-295																											
UTC:		7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
S/C 31 INITIAL CONDITIONS		1200 RTLT 36h 0m 6s												0000 RTLT 36h 0m 16s													
RTLT: 35h 59m 34s														↓ 1901 BAY 1 HTR OFF ↓ 1905 X/B HI POWER ↓ 1927 SET AHELI2 WKS=12 1930   1932 2 AHELI2 SID MRO'S ▼ 1930 DUMMY (07:30) U/L 1955   -   ----- TLC (SHORT-FORM) -----													
CCSL: A093														0242   0243 PWS/RH													
FDSL: 11AF														↓ 0242 GS-4B 0243													
TWNC: ON																											
SB: OFF																											
XB: LOW																											
PYR: .05/.10/.25																											
GYROS: OFF																											
FDS MODE		CR-5T												CR-5T													
XB DATA RATE(MI)		160(32)												160(32)													
31 DSN COVERAGE		1840  -----  14 [T]  -----  2225  -----  10  -----  .....40 ..... .....60 .....												.....40 ..... .....													
32 DSN COVERAGE		1150  -----  43 [D]  -----  1655 .....40 .....												.....40 ..... .....0540   35 [D]  -----													
S/C 32 INITIAL CONDITIONS		1200 RTLT 29h 28m 34s												0000 RTLT 29h 28m 46s													
RTLT: 29h 28m 24s																											
CCSL: BASELINE																											
FDSL: 11AF														0534   PLSCAL													
TWNC: ON														0534   MAGCAL													
SB: OFF														0534   PESCAL													
XB: LO																											
PYR: .05/.05/.05/																											
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 @ 0242 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	
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ISSUE DATE: 10/20/14 14:16







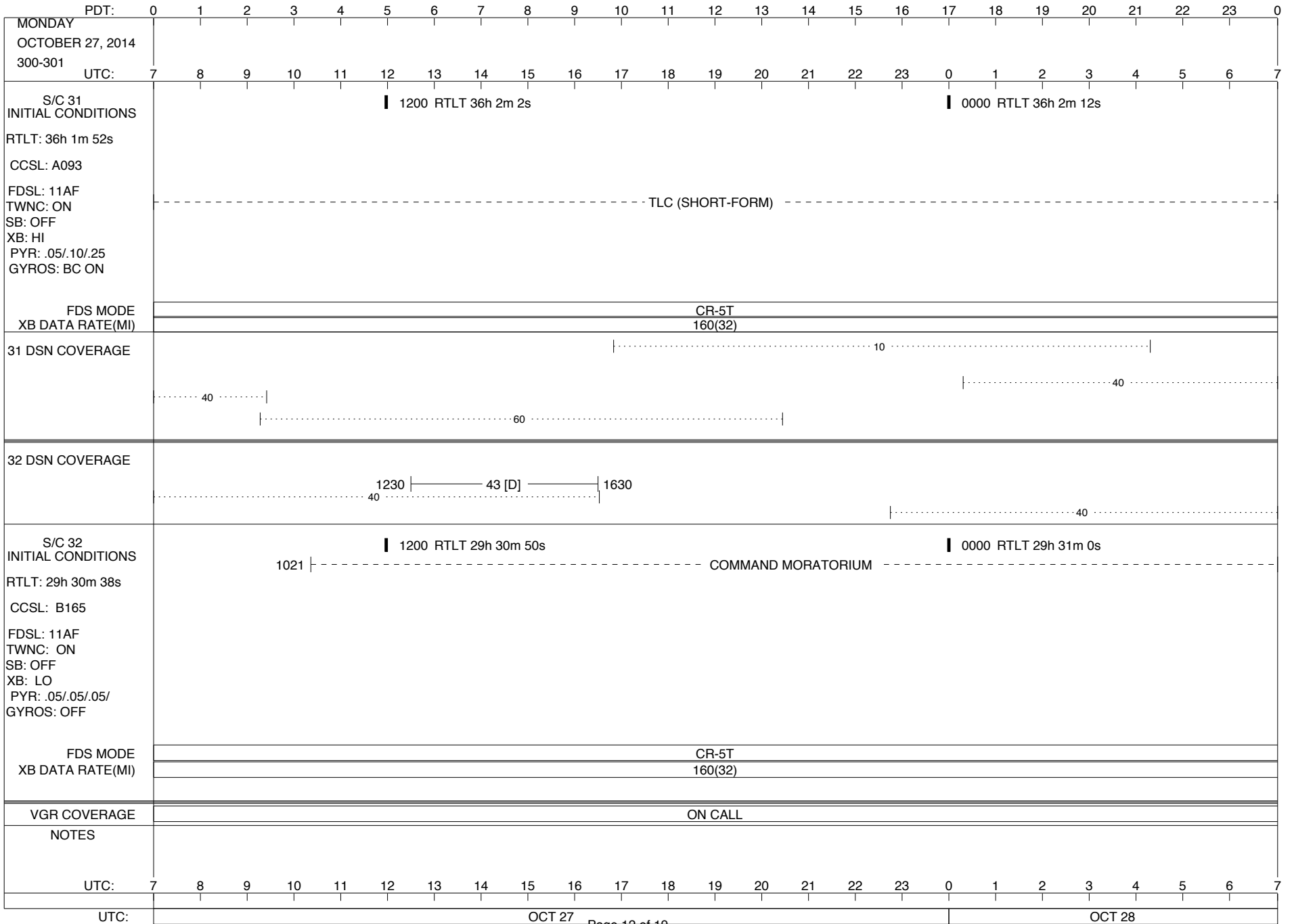
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FRIDAY OCTOBER 24, 2014 297-298																										
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S/C 31 INITIAL CONDITIONS RTLT: 36h 0m 54s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 36h 1m 4s												0000 RTLT 36h 1m 14s													
	0743 TAPPOS 0856   0857 PWS/RH 0907   - TAPPOS -   1110 ↓ 0856 GS-4B 0857												↓ 1901 GYROS BC ON ↓ 1901 GYRO INIT ↓ 1911 GYRO FAULT TEST 2025   2032 CCSTIM(B)													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)													
31 DSN COVERAGE	1830  ----- 14 [D] -----  2230 ..... 40 ..... ..... 60 .....												..... 40 .....													
32 DSN COVERAGE	1005  ----- 43 [H2oB] -----  1640 ..... 40 .....												..... 40 .....													
S/C 32 INITIAL CONDITIONS RTLT: 29h 29m 30s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LO PYR: .05/.05/.05/ GYROS: OFF	1200 RTLT 29h 29m 42s												0000 RTLT 29h 29m 54s													
	▼ 1417 DUMMY (5 MIN BRACKETED 19:47)																									
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)													
VGR COVERAGE	ON CALL				VGR				ON CALL				VGR				ON CALL									
NOTES	[1] S/C 31=GS-4B @ 0856 XB=2.8K(41) NOT RECOVERABLE [2] B165 BACKUP U/L 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:	OCT 24												OCT 25													

ISSUE DATE: 10/20/14 14:16

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 OCTOBER 25, 2014 298-299	
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	
<p>S/C 31 INITIAL CONDITIONS</p> <p>RTLT: 36h 1m 14s</p> <p>CCSL: A093</p> <p>FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON</p>	<p>1200 RTLT 36h 1m 24s</p> <p>0000 RTLT 36h 1m 34s</p>
FDS MODE	CR-5T
XB DATA RATE(MI)	160(32)
31 DSN COVERAGE	<p>1830  ----- 14 [D] -----  2230</p> <p>.....40..... ----- 40 ----- </p> <p>.....60..... </p>
32 DSN COVERAGE	<p>1125  ----- 43 [D] -----  1640</p> <p>.....40..... ----- 40 ----- </p>
<p>S/C 32 INITIAL CONDITIONS</p> <p>RTLT: 29h 29m 54s</p> <p>CCSL: BASELINE</p> <p>FDSL: 11AF TWNC: ON SB: OFF XB: LO PYR: .05/.05/.05/ GYROS: OFF</p>	<p>1200 RTLT 29h 30m 4s</p> <p>0000 RTLT 29h 30m 16s</p>
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 25  ----- Page 10 of 19 -----  OCT 26

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 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 RTLT: 36h 1m 34s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/10/25 GYROS: BC ON	<p>1200 RTLT 36h 1m 42s</p> <p>0854   - TAPPOS -   1057 1156   1157 PWS/RH 1207   - - TAPPOS - -   1424</p> <p>↓ 1156 GS-4B 1157</p>												<p>0000 RTLT 36h 1m 52s</p> <p>U/L 0615 - 0642   -   TLC (SHORT-FORM)   -  </p>													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)													
31 DSN COVERAGE	<p>40  ----- </p> <p>1830  ----- 14 [D] -----  2230  ----- 10 ----- </p> <p>0255 - 0645  ----- 43 [T] -----   ----- 40 ----- </p> <p>60  ----- </p>																									
32 DSN COVERAGE	<p>1015  ----- 45 [D] -----  1250 1230  ----- 43 [D] -----  1635 40  ----- </p>												<p>40  ----- </p>													
S/C 32 INITIAL CONDITIONS RTLT: 29h 30m 16s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LO PYR: .05/05/05/ GYROS: OFF	<p>1200 RTLT 29h 30m 26s</p>												<p>0000 RTLT 29h 30m 38s</p> <p>↓ 0027 BEGIN SEQUENCE B165</p>													
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)													
VGR COVERAGE													ON CALL													
NOTES	[1] S/C 31=GS-4B @ 1156 XB=2.8K(41) NOT RECOVERABLE																									
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ISSUE DATE: 10/20/14 14:16



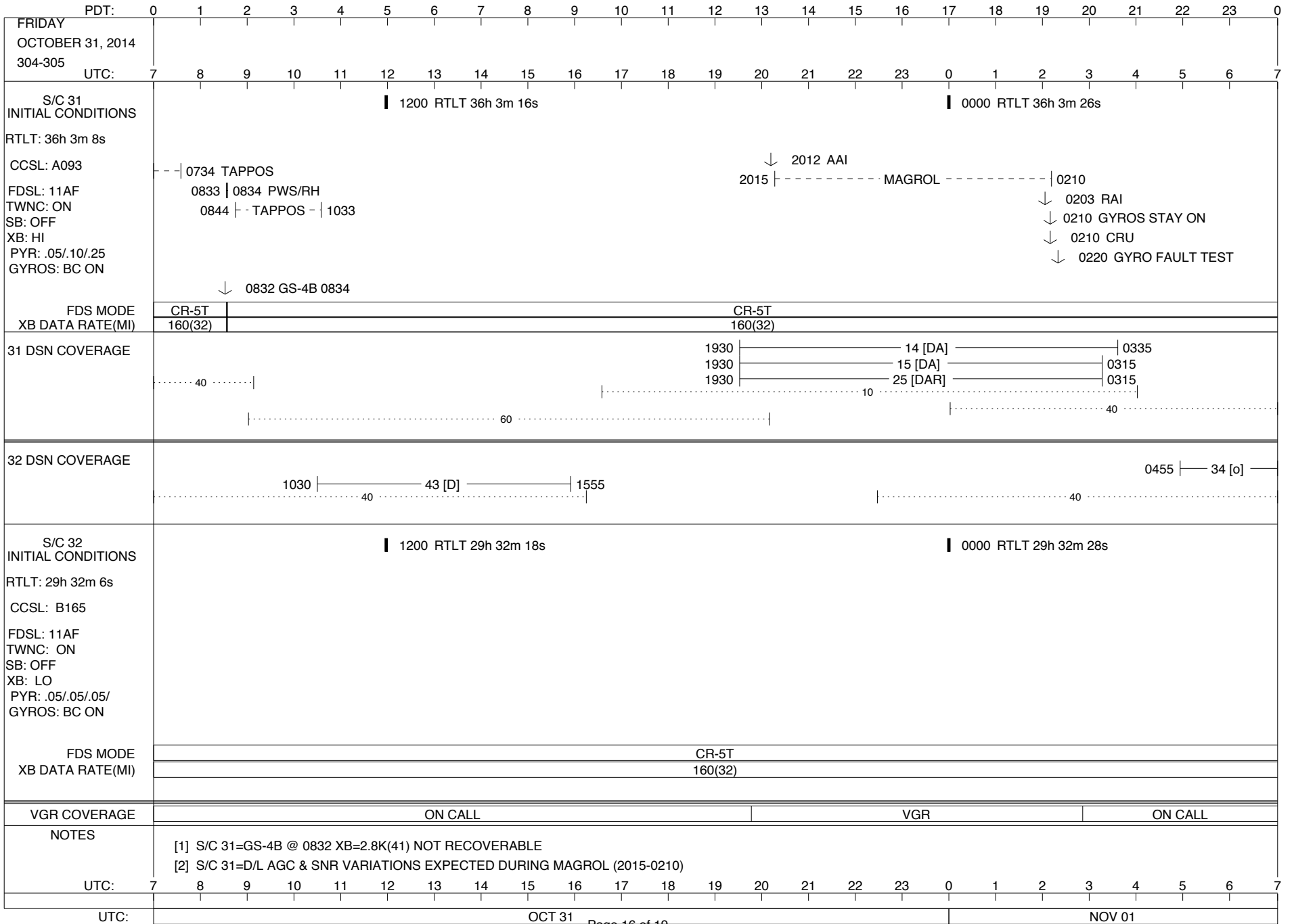
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S/C 31 INITIAL CONDITIONS RTLT: 36h 2m 12s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON						1200 RTLT 36h 2m 20s																					
FDS MODE	CR-5T					EL-40					CR-5T					CR-5T											
XB DATA RATE(MI)	160(32)					40(30)					160(32)					160(32)											
31 DSN COVERAGE																											
32 DSN COVERAGE																											
S/C 32 INITIAL CONDITIONS RTLT: 29h 31m 0s CCSL: B165 FDSL: 11AF TWNC: ON SB: OFF XB: LO PYR: .05/.05/.05/ GYROS: OFF						1200 RTLT 29h 31m 12s																					
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												

ISSUE DATE: 10/20/14 14:16

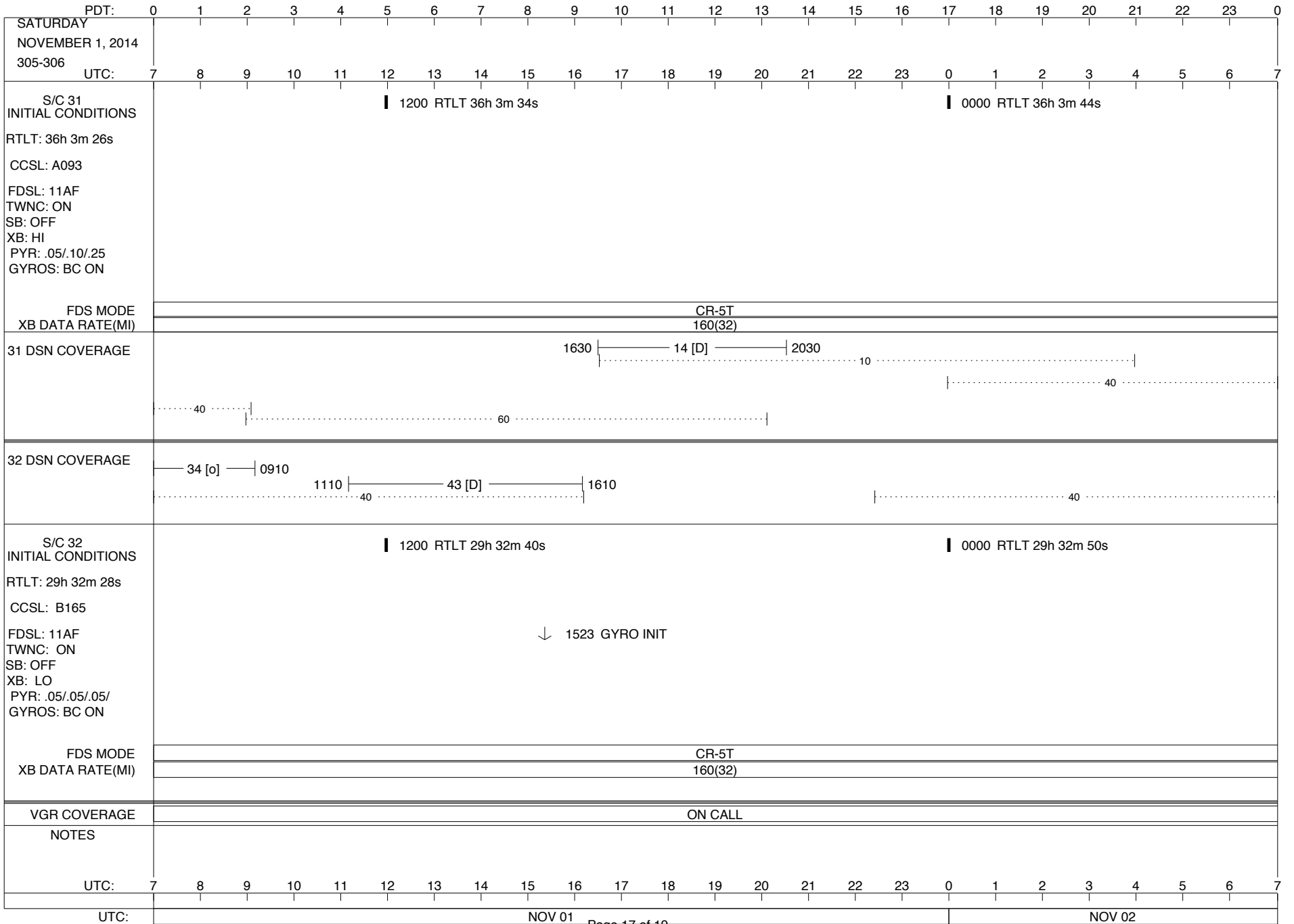
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WEDNESDAY OCTOBER 29, 2014 302-303																											
S/C 31 INITIAL CONDITIONS RTLT: 36h 2m 30s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/10/25 GYROS: BC ON	1200 RTLT 36h 2m 40s												0000 RTLT 36h 2m 48s														
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)														
31 DSN COVERAGE	<p>0000  ----- 14 [D] -----  0405</p> <p>.....40..... ----- 60 ----- </p>																										
32 DSN COVERAGE	<p>1220  ----- 43 [D] -----  1620</p> <p>.....40..... ----- 40 ----- </p>																										
S/C 32 INITIAL CONDITIONS RTLT: 29h 31m 22s CCSL: B165 FDSL: 11AF TWNC: ON SB: OFF XB: LO PYR: .05/05/05/ GYROS: BC ON	1200 RTLT 29h 31m 34s												0000 RTLT 29h 31m 44s														
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:	OCT 29																		OCT 30								

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																												
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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													----- 10 -----															
	..... 40 .....																..... 40 .....											
	----- 60 -----																											
32 DSN COVERAGE													----- 40 -----															
	1035  ----- 43 [B] -----  1615																											
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													





ISSUE DATE: 10/20/14 14:16



PDT:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
SUNDAY NOVEMBER 2, 2014 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
S/C 31 INITIAL CONDITIONS RTLT: 36h 3m 44s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON	1200 RTLT 36h 3m 52s											0000 RTLT 36h 4m 0s												
	0831   - TAPPOS -   1020 1133   1134 PWS/RH 1144   TAPPOS -   1320 ↓ 1132 GS-4B 1134																							
FDS MODE	CR-5T											CR-5T												
XB DATA RATE(MI)	160(32)											160(32)												
31 DSN COVERAGE	1630  ----- 14 [D] -----  2030 ..... 40 ..... ..... 60 .....											..... 10 ..... ..... 0235  ----- 43 [D] -----  ..... 40 .....												
32 DSN COVERAGE	1025  ----- 43 [D] -----  1605 ..... 40 .....											..... 40 .....												
S/C 32 INITIAL CONDITIONS RTLT: 29h 32m 50s CCSL: B165 FDSL: 11AF TWNC: ON SB: OFF XB: LO PYR: .05/.05/.05/ GYROS: BC ON	1200 RTLT 29h 33m 2s											0000 RTLT 29h 33m 12s												
FDS MODE												CR-5T												
XB DATA RATE(MI)												160(32)												
VGR COVERAGE												ON CALL												
NOTES	[1] S/C 31=GS-4B @ 1132 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
UTC:	NOV 02											NOV 03												

ISSUE DATE: 10/20/14 14:16

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	<p>1200 RTLT 36h 4m 10s</p> <p>RTLT: 36h 4m 0s</p> <p>CCSL: A093</p> <p>FDSL: 11AF</p> <p>TWNC: ON</p> <p>SB: OFF</p> <p>XB: HI</p> <p>PYR: .05/.10/.25</p> <p>GYROS: BC ON</p>																										
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
31 DSN COVERAGE	<p>0635 43 [D]</p> <p>40</p> <p>60</p>																										
32 DSN COVERAGE	<p>1130 43 [D] 1600</p> <p>40</p>																										
S/C 32 INITIAL CONDITIONS	<p>1200 RTLT 29h 33m 24s</p> <p>RTLT: 29h 33m 12s</p> <p>CCSL: B165</p> <p>FDSL: 11AF</p> <p>TWNC: ON</p> <p>SB: OFF</p> <p>XB: LO</p> <p>PYR: .05/.05/.05/</p> <p>GYROS: BC ON</p> <p>1523 GYRO INIT</p>																										
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 03																		NOV 04								