

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: October 3, 2013

For the Period: 10/03/13 to 10/21/13 (13-276 – 13-294)

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

**DSOT (1) 230-102**

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

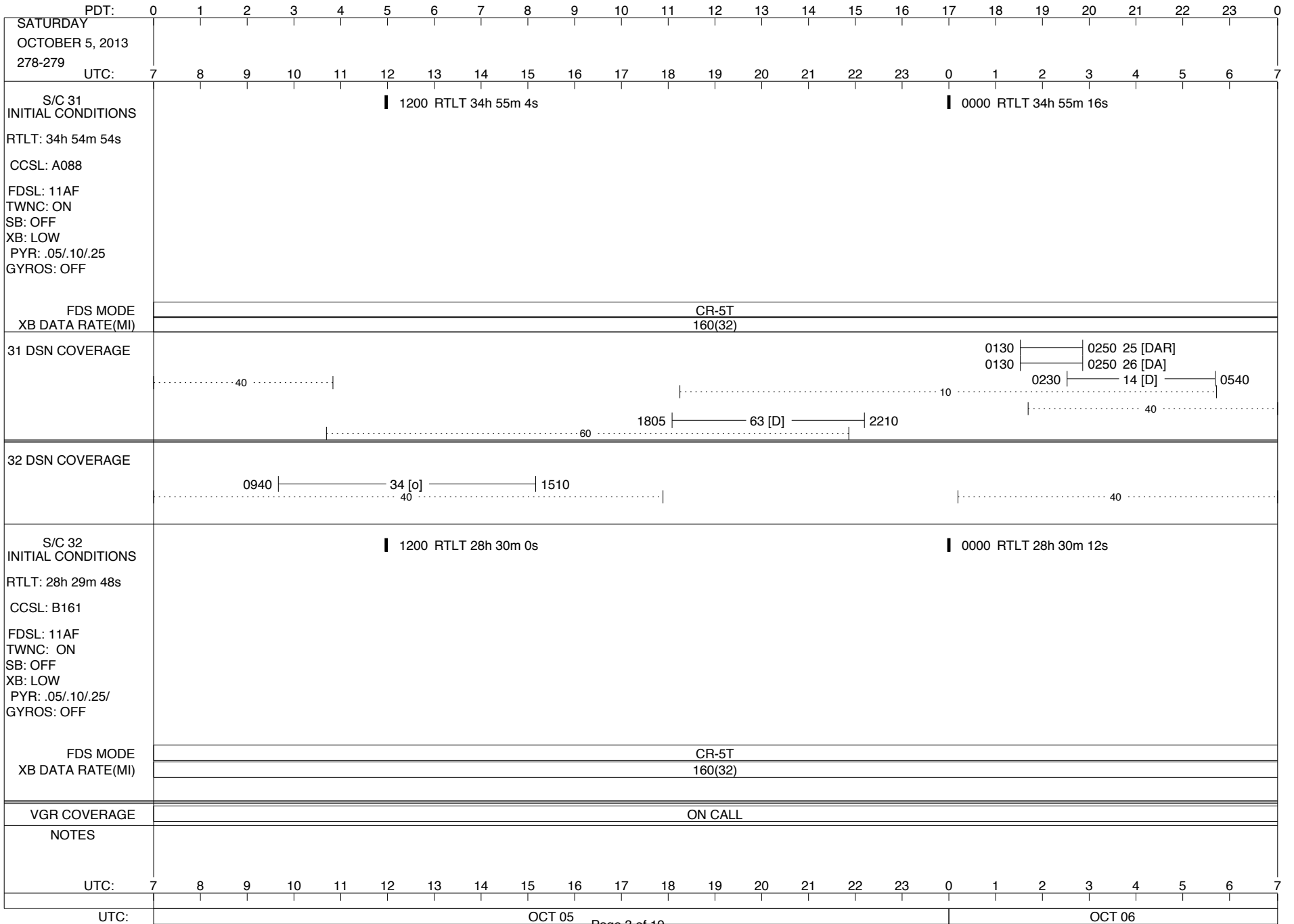
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S/C 31 INITIAL CONDITIONS RTLTL: 34h 54m 8s CCSL: A088 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 34h 54m 20s												█ 0000 RTLTL 34h 54m 32s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	..... 40 .....												..... 0200   14 [D]   0415 .....												
	..... 1445   63 [T1]   2220 .....												..... 0400   43 [D]   ..... ..... 40 .....												
32 DSN COVERAGE	0820   45 [D]   1150 .....												..... 45 [D] 0630   .....												
	..... 1145   43 [B]   1730 .....												..... 40 .....												
S/C 32 INITIAL CONDITIONS RTLTL: 28h 29m 4s CCSL: B161 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	█ 1200 RTLTL 28h 29m 14s												█ 0000 RTLTL 28h 29m 26s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL						VGR						ON CALL												
NOTES	[1] A089 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 03												OCT 04												

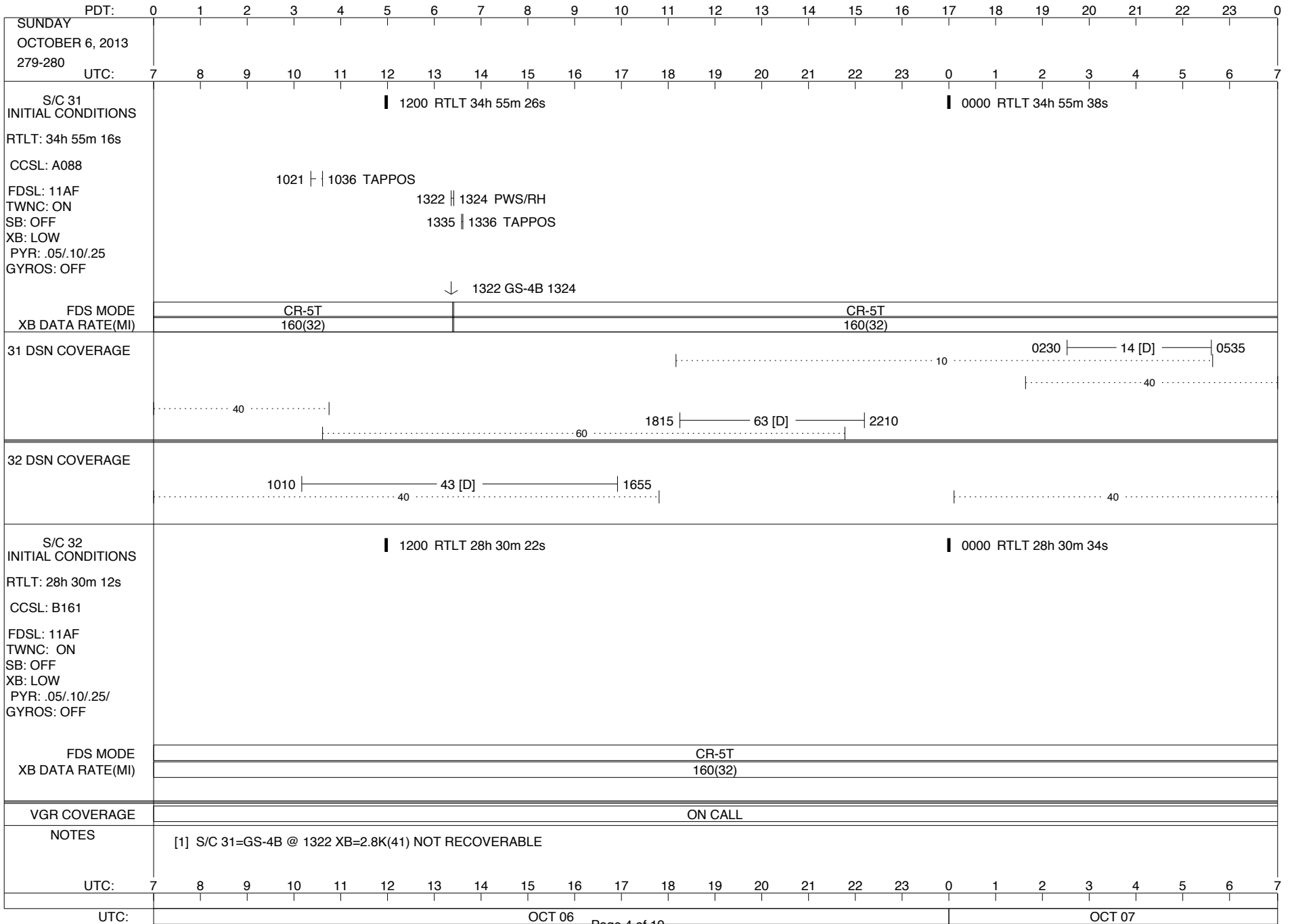
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FRIDAY OCTOBER 4, 2013 277-278																									
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S/C 31 INITIAL CONDITIONS	1200 RTLT 34h 54m 42s												0000 RTLT 34h 54m 54s												
RTLT: 34h 54m 32s																									
CCSL: A088	----- TLC (SHORT-FORM) ----- + D/L -  0342																								
FDSL: 11AF	-   0721 - 0750 TAPPOS																								
TWNC: ON	1022    1023 PWS/RH																								
SB: OFF	1034  -   1049 TAPPOS																								
XB: LOW	↓ 1022 GS-4B 1023																								
PYR: .05/.10/.25																									
GYROS: OFF																									
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE																									
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS	1200 RTLT 28h 29m 38s												0000 RTLT 28h 29m 48s												
RTLT: 28h 29m 26s																									
CCSL: B161																									
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	[1] S/C 31=GS-4B @ 1022 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 04												OCT 05												

ISSUE DATE: 10/02/13 21:49



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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

MONDAY OCTOBER 7, 2013 280-281 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

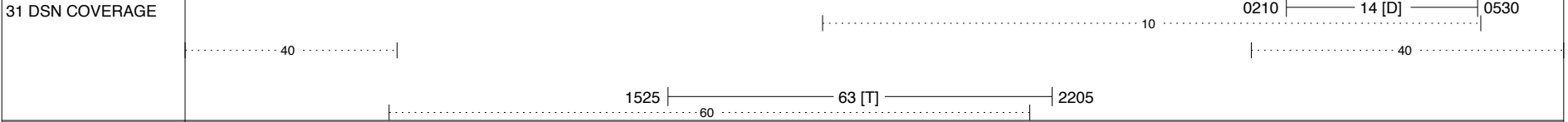
S/C 31  
 INITIAL CONDITIONS  
 RTLT: 34h 55m 38s  
 CCSL: A088  
 FDSL: 11AF  
 TWNC: ON  
 SB: OFF  
 XB: LOW  
 PYR: .05/.10/.25  
 GYROS: OFF

█ 1200 RTLT 34h 55m 48s █ 0000 RTLT 34h 56m 0s

U/L 1550 | - - - - - TLC (LONG-FORM) - - - - -

▼ 1800 DUMMY (04:56)

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



S/C 32  
 INITIAL CONDITIONS  
 RTLT: 28h 30m 34s  
 CCSL: B161  
 FDSL: 11AF  
 TWNC: ON  
 SB: OFF  
 XB: LOW  
 PYR: .05/.10/.25/  
 GYROS: OFF

█ 1200 RTLT 28h 30m 46s █ 0000 RTLT 28h 30m 56s

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 07 Page 5 of 19 OCT 08

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TUESDAY OCTOBER 8, 2013 281-282																												
S/C 31 INITIAL CONDITIONS RTLTL: 34h 56m 0s CCSL: A088 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 34h 56m 10s														0000 RTLTL 34h 56m 22s													
FDS MODE	CR-5T														CR-5T													
XB DATA RATE(MI)	160(32)														160(32)													
31 DSN COVERAGE	<p>2230  ----- 14 [D] -----  0355</p> <p>.....40..... ----- 10 ----- </p> <p>.....1645  ----- 63 [D] -----  2200</p> <p>.....60..... ----- 40 ----- </p>																											
32 DSN COVERAGE	<p>1005  --- 45 [D] ---  1150</p> <p>.....1130  ----- 43 [D] -----  1650</p> <p>.....40..... ----- 40 ----- </p>																											
S/C 32 INITIAL CONDITIONS RTLTL: 28h 30m 56s CCSL: B161 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 28h 31m 8s														0000 RTLTL 28h 31m 20s													
FDS MODE	CR-5T														CR-5T													
XB DATA RATE(MI)	160(32)														160(32)													
VGR COVERAGE	ON CALL																											
NOTES	[1] S/C 31=GS-4B @ 0346 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 08														OCT 09													

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WEDNESDAY OCTOBER 9, 2013 282-283																												
S/C 31 INITIAL CONDITIONS RTLT: 34h 56m 22s CCSL: A088 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 34h 56m 32s												0000 RTLT 34h 56m 42s															
FDS MODE														CR-5T														
XB DATA RATE(MI)														160(32)														
31 DSN COVERAGE	<p>..... 40 ..... </p> <p>..... 60 .....  1840  ----- 63 [D] -----  2120</p> <p>..... 10 ..... </p> <p>..... 40 ..... </p>																											
32 DSN COVERAGE	<p>..... 40 .....  1010  ----- 43 [D] -----  1645</p> <p>..... 40 ..... </p>																											
S/C 32 INITIAL CONDITIONS RTLT: 28h 31m 20s CCSL: B161 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 28h 31m 32s												0000 RTLT 28h 31m 42s															
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 09														OCT 10													



ISSUE DATE: 10/02/13 21:49

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THURSDAY OCTOBER 10, 2013 283-284																												
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 56m 42s CCSL: A088 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 34h 56m 54s												0000 RTLT 34h 57m 4s															
FDS MODE														CR-5T														
XB DATA RATE(MI)														160(32)														
31 DSN COVERAGE															.....10.....													
	.....40.....																		.....40.....									
															1415  -----63 [D]-----  2155													
															.....60.....													
32 DSN COVERAGE																												
	0900  -----43 [B]-----  1645																		.....40.....									
															.....40.....													
S/C 32 INITIAL CONDITIONS RTLT: 28h 31m 42s CCSL: B161 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 28h 31m 54s												0000 RTLT 28h 32m 6s															
	▼ 1512 DUMMY (5 MIN BRACKETED 19:44)																											
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 10																	OCT 11										

ISSUE DATE: 10/02/13 21:49

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FRIDAY OCTOBER 11, 2013 284-285	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 57m 4s CCSL: A088 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 34h 57m 16s												0000 RTLT 34h 57m 26s													
0713 TAPPOS 0959   1001 PWS/RH 1012   1013 TAPPOS ↓ 0959 GS-4B 1001																										
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)													
31 DSN COVERAGE	40												40													
	1715   63 [D]   2150												60													
32 DSN COVERAGE	1030   43 [D]   1725												40													
S/C 32 INITIAL CONDITIONS RTLT: 28h 32m 6s CCSL: B161 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 28h 32m 16s												0000 RTLT 28h 32m 28s													
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)													
VGR COVERAGE													ON CALL													
NOTES	[1] S/C 31=GS-4B @ 0959 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 11													OCT 12												

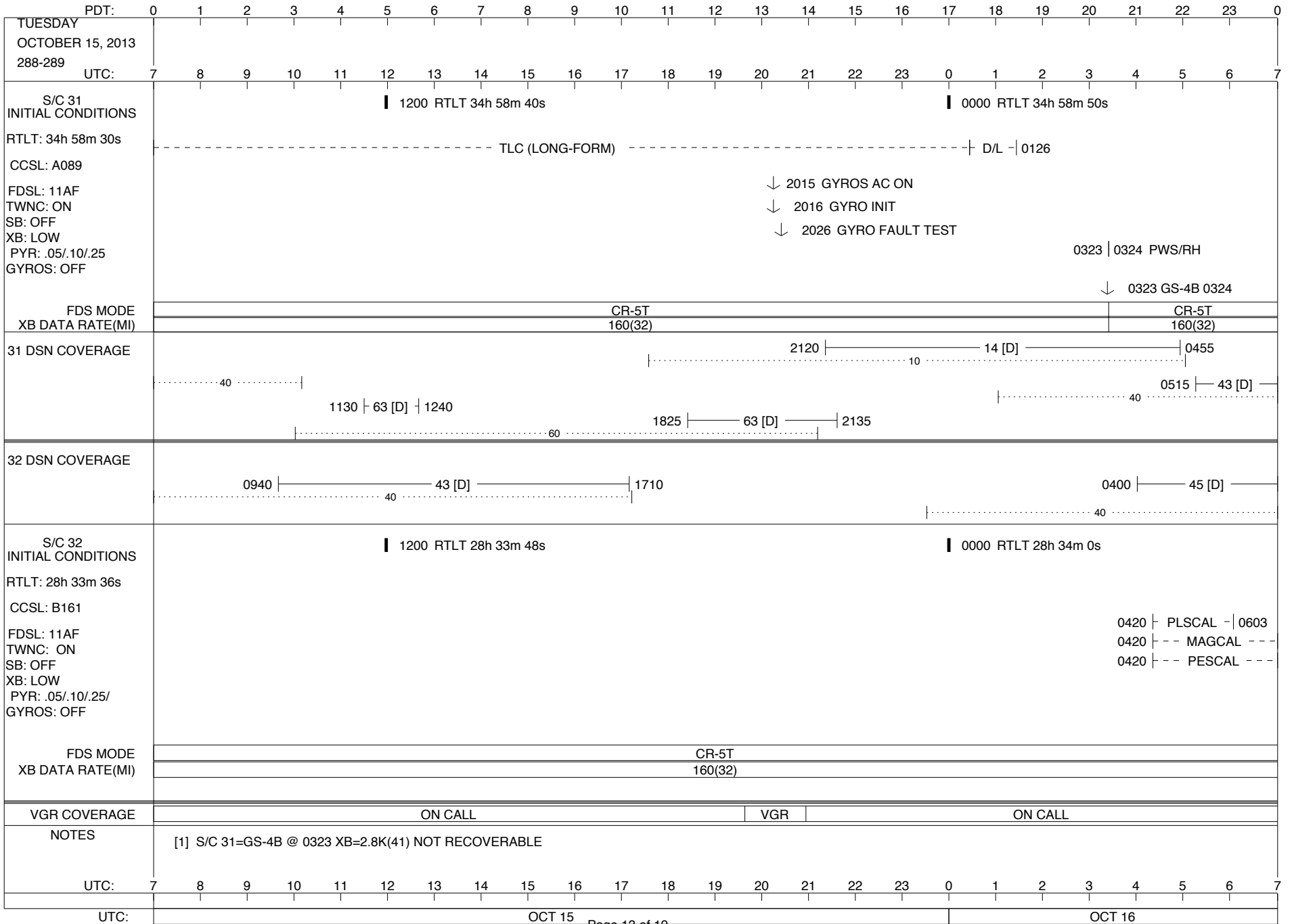
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SATURDAY OCTOBER 12, 2013 285-286																										
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S/C 31 INITIAL CONDITIONS RTLTL: 34h 57m 26s CCSL: A088 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 34h 57m 36s												0000 RTLTL 34h 57m 48s													
FDS MODE	CR-5T																									
XB DATA RATE(MI)	160(32)																									
31 DSN COVERAGE	..... 40 .....   1100   63 [D]   1250 ..... 60 .....   1835   63 [D]   2120												..... 40 .....   0135   14 [D]   0430 ..... 10													
32 DSN COVERAGE	..... 40 .....   0835   45 [D]   1415 ..... 40 .....   0400   43 [o]   ..... 40																									
S/C 32 INITIAL CONDITIONS RTLTL: 28h 32m 28s CCSL: B161 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 28h 32m 40s												0000 RTLTL 28h 32m 50s													
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	
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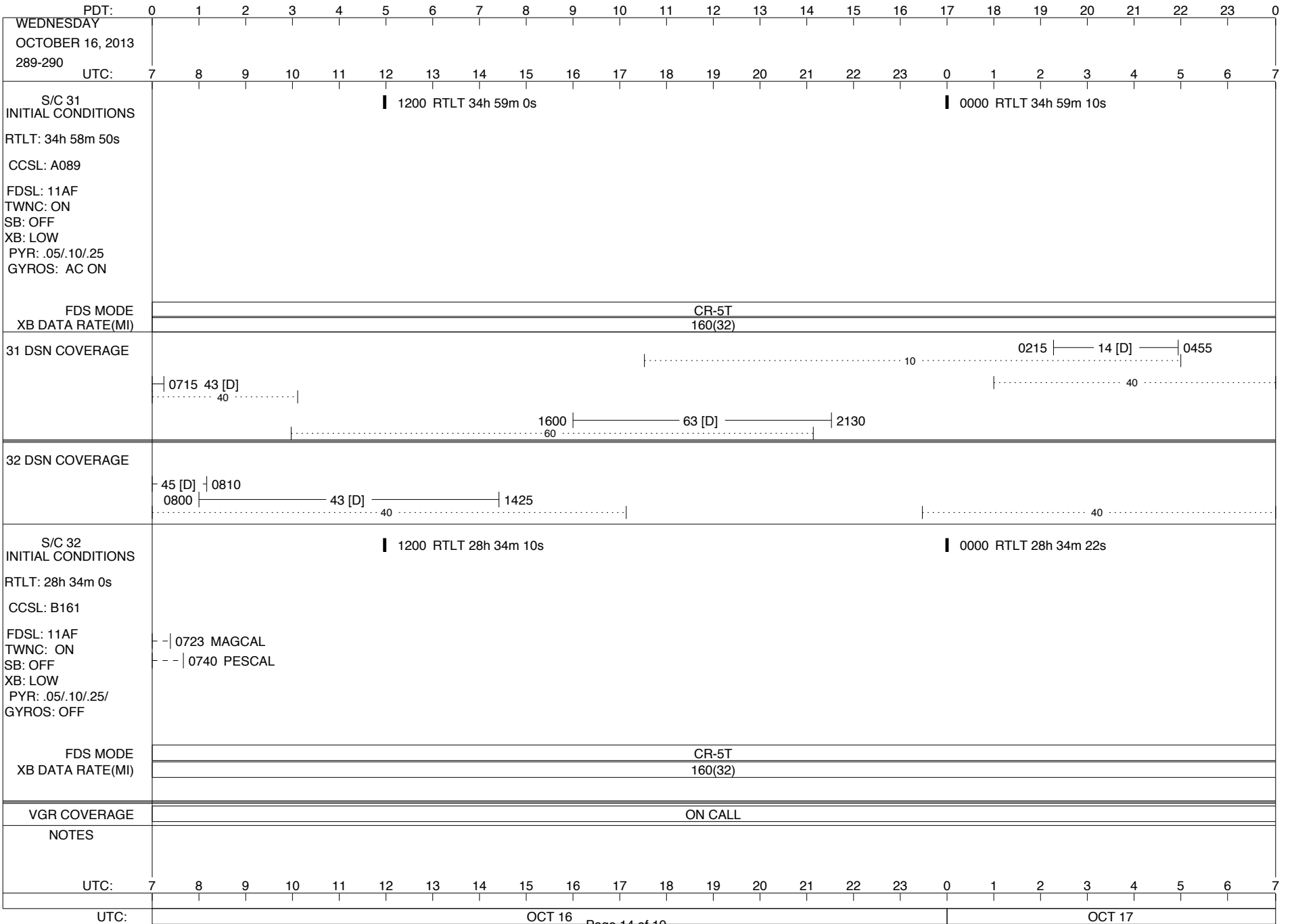
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SUNDAY OCTOBER 13, 2013 286-287	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7		
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7		
S/C 31 INITIAL CONDITIONS RTLTL: 34h 57m 48s CCSL: A088 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 34h 57m 58s												█ 0000 RTLTL 34h 58m 8s														
	0958    1000 TAPPOS												1259    1301 PWS/RH 1312     1324 TAPPOS														
	↓ 1259 GS-4B 1301																										
FDS MODE	CR-5T												CR-5T														
XB DATA RATE(MI)	160(32)												160(32)														
31 DSN COVERAGE	.....40.....												.....10..... 0140  -----14 [D]----- 0505														
	.....												.....40.....														
	.....1625  -----63 [D]----- 2140												.....60.....														
32 DSN COVERAGE	.....43 [o]----- 1515												.....40.....														
	.....40.....												.....40.....														
S/C 32 INITIAL CONDITIONS RTLTL: 28h 32m 50s CCSL: B161 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	█ 1200 RTLTL 28h 33m 2s												█ 0000 RTLTL 28h 33m 14s														
FDS MODE													CR-5T														
XB DATA RATE(MI)													160(32)														
VGR COVERAGE													ON CALL														
NOTES	[1] S/C 31=GS-4B @ 1259 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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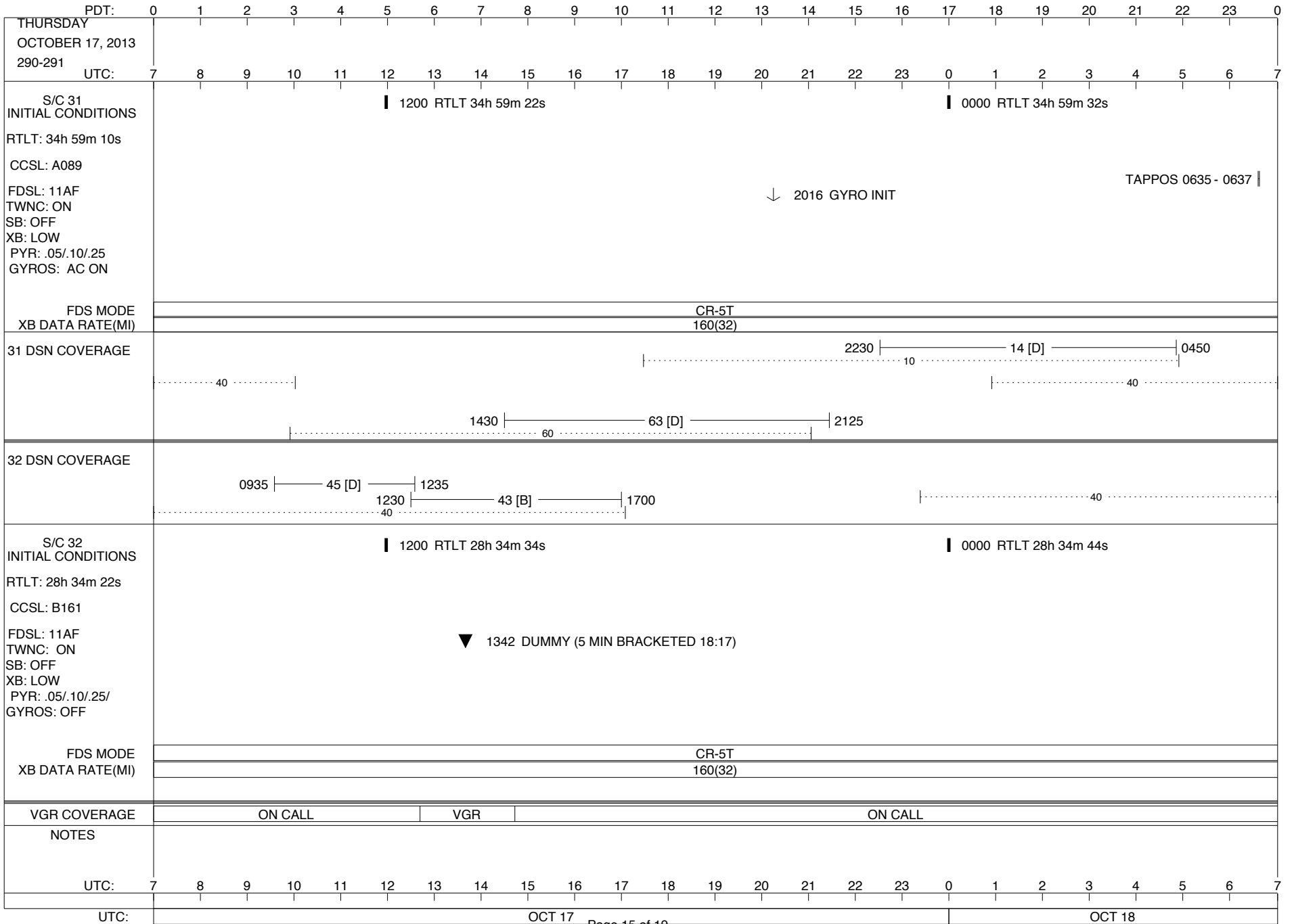
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MONDAY OCTOBER 14, 2013 287-288																												
S/C 31 INITIAL CONDITIONS RTLTL: 34h 58m 8s CCSL: A088 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 34h 58m 18s												0000 RTLT 34h 58m 30s															
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)															
31 DSN COVERAGE																												
32 DSN COVERAGE																												
S/C 32 INITIAL CONDITIONS RTLTL: 28h 33m 14s CCSL: B161 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 28h 33m 24s												0000 RTLT 28h 33m 36s															
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			
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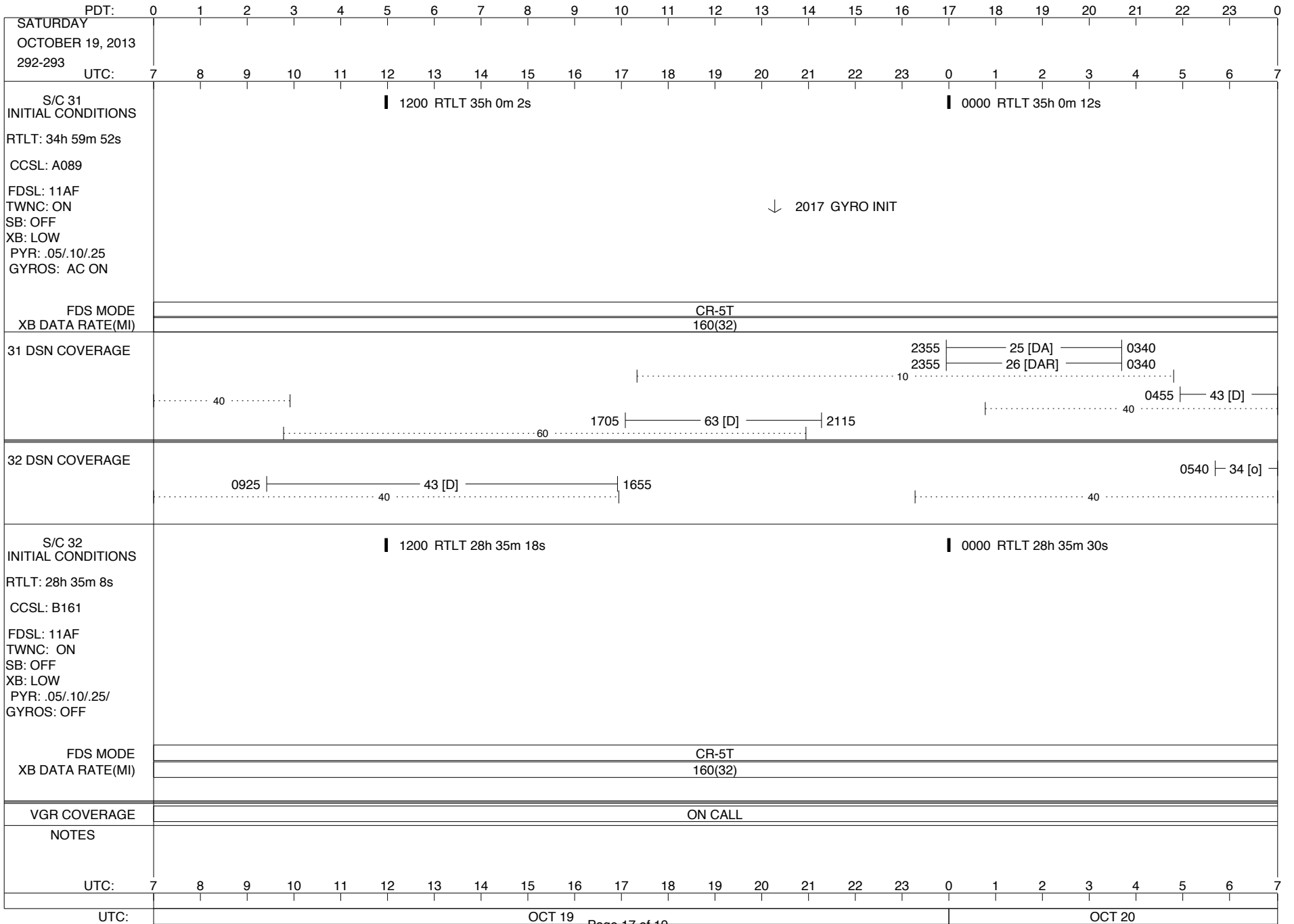
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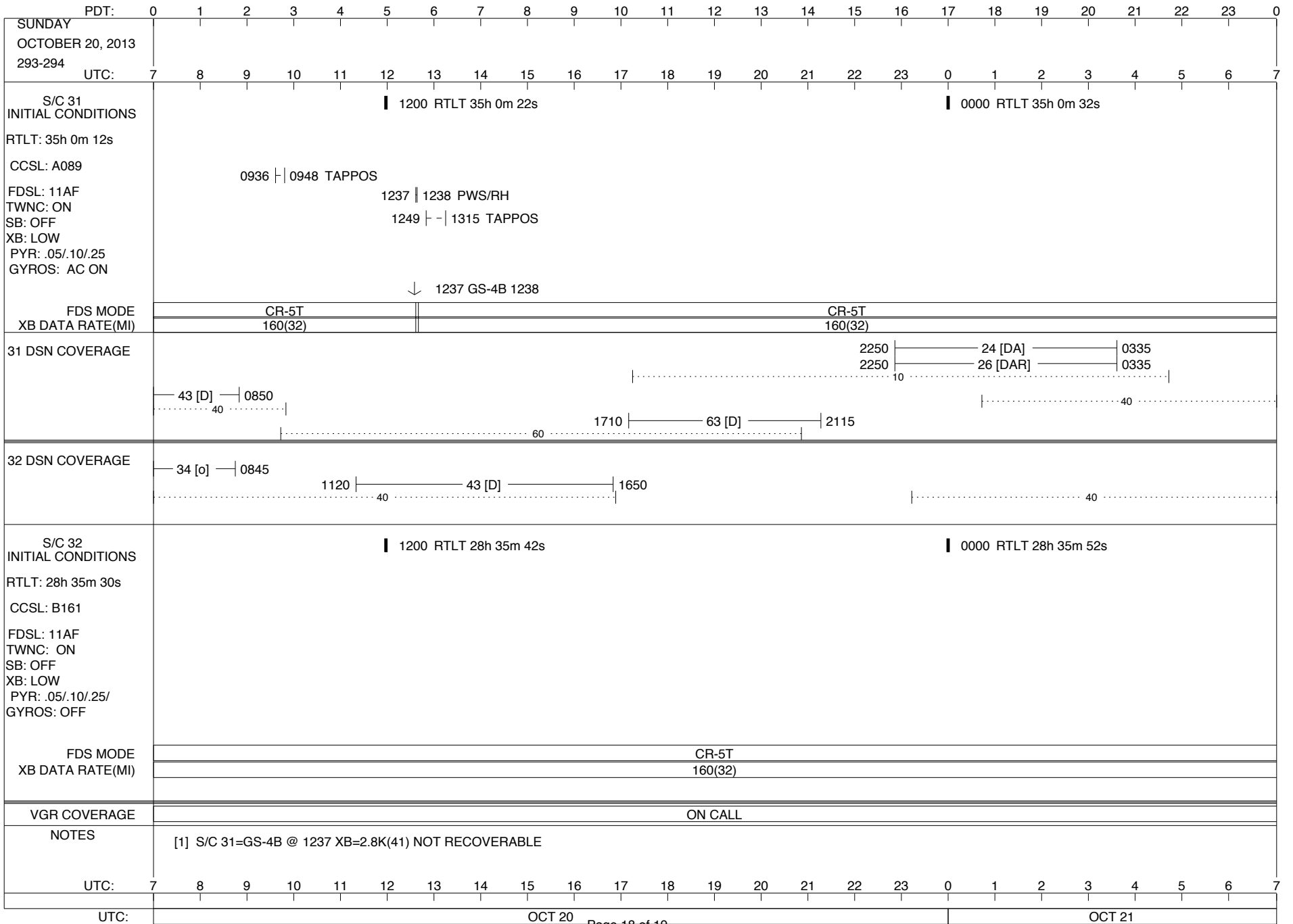


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FRIDAY OCTOBER 18, 2013 291-292																									
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLT: 34h 59m 32s CCSL: A089 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: AC ON						█ 1200 RTLT 34h 59m 42s												█ 0000 RTLT 34h 59m 52s							
0936   0938 PWS/RH 0949     1001 TAPPOS ↓ 0936 GS-4B 0938																									
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																	CR-5T 160(32)							
31 DSN COVERAGE																									
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS RTLT: 28h 34m 44s CCSL: B161 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF						█ 1200 RTLT 28h 34m 56s												█ 0000 RTLT 28h 35m 8s							
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:																									

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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		
MONDAY OCTOBER 21, 2013 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 RTLT: 35h 0m 32s CCSL: A089 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: AC ON	<div style="text-align: center;"> <span style="font-size: 2em;">█</span> 1200 RTLT 35h 0m 42s                 </div> <div style="text-align: center; margin-top: 20px;"> <span style="font-size: 2em;">↓</span> 2017 GYRO INIT                 </div>																										
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)													
31 DSN COVERAGE																											
32 DSN COVERAGE																											
S/C 32 INITIAL CONDITIONS RTLT: 28h 35m 52s CCSL: B161 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	<div style="text-align: center;"> <span style="font-size: 2em;">█</span> 1200 RTLT 28h 36m 4s                 </div>																										
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:	OCT 21													OCT 22													