

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: December 9, 2015

For the Period: 12/10/15 to 12/28/15 (15-342 – 15-362)

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

**DSOT (1) 230-102**

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 \*Donald-Gurnett@uiowa.edu

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

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 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

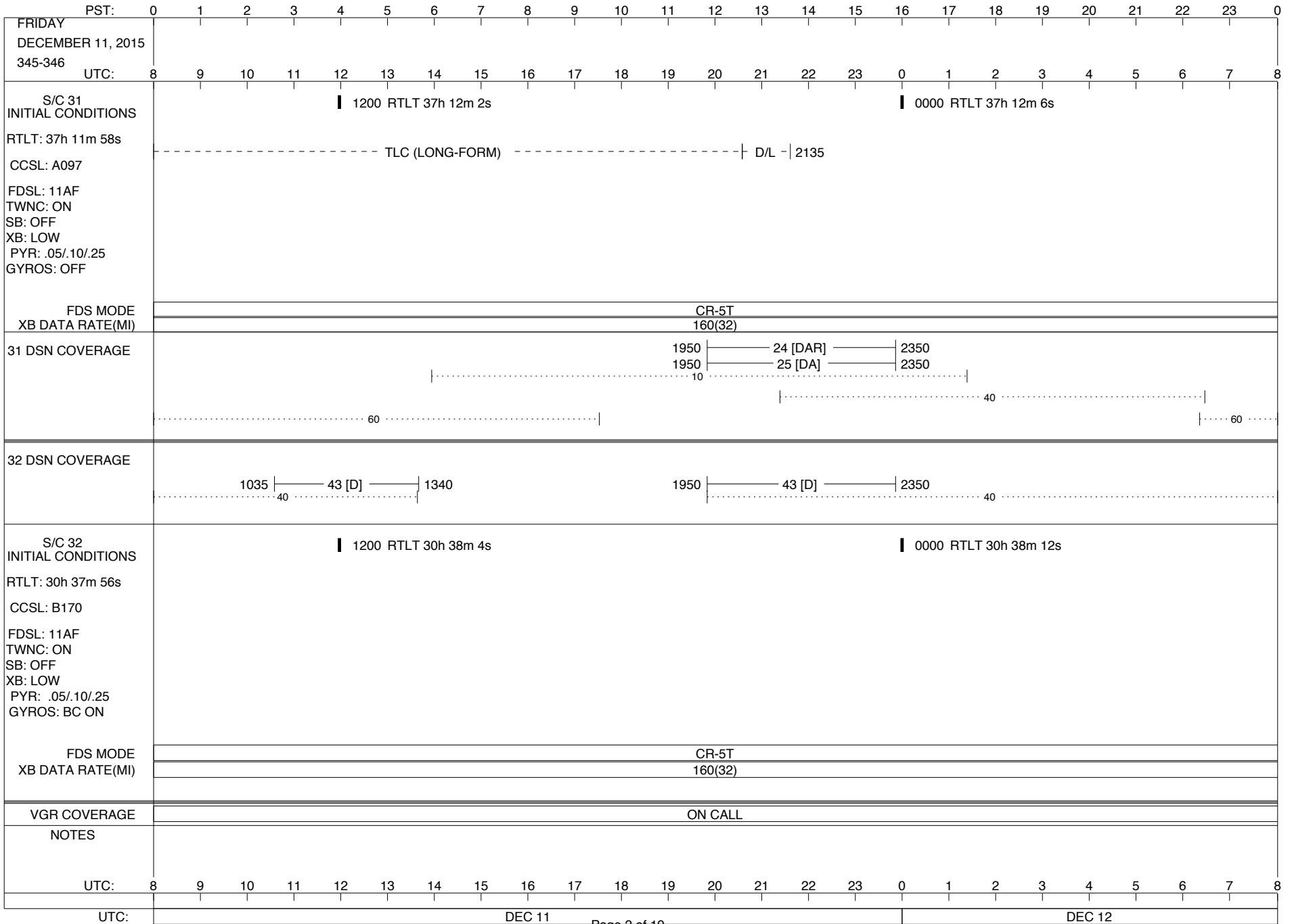
**LEGEND:**  
 ▽ = R/T Command (Last chance or Contingency)  
 ▼ = R/T Command (Scheduled)  
 \* = Result of R/T Command  
 n = (where n = 1,2,3 ..) Special Note, see bottom of page  
 A = Arrayed station  
 B = BLF  
 D = Downlink only pass  
 H = High Power Transmitter  
 R = Array Reference Antenna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

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

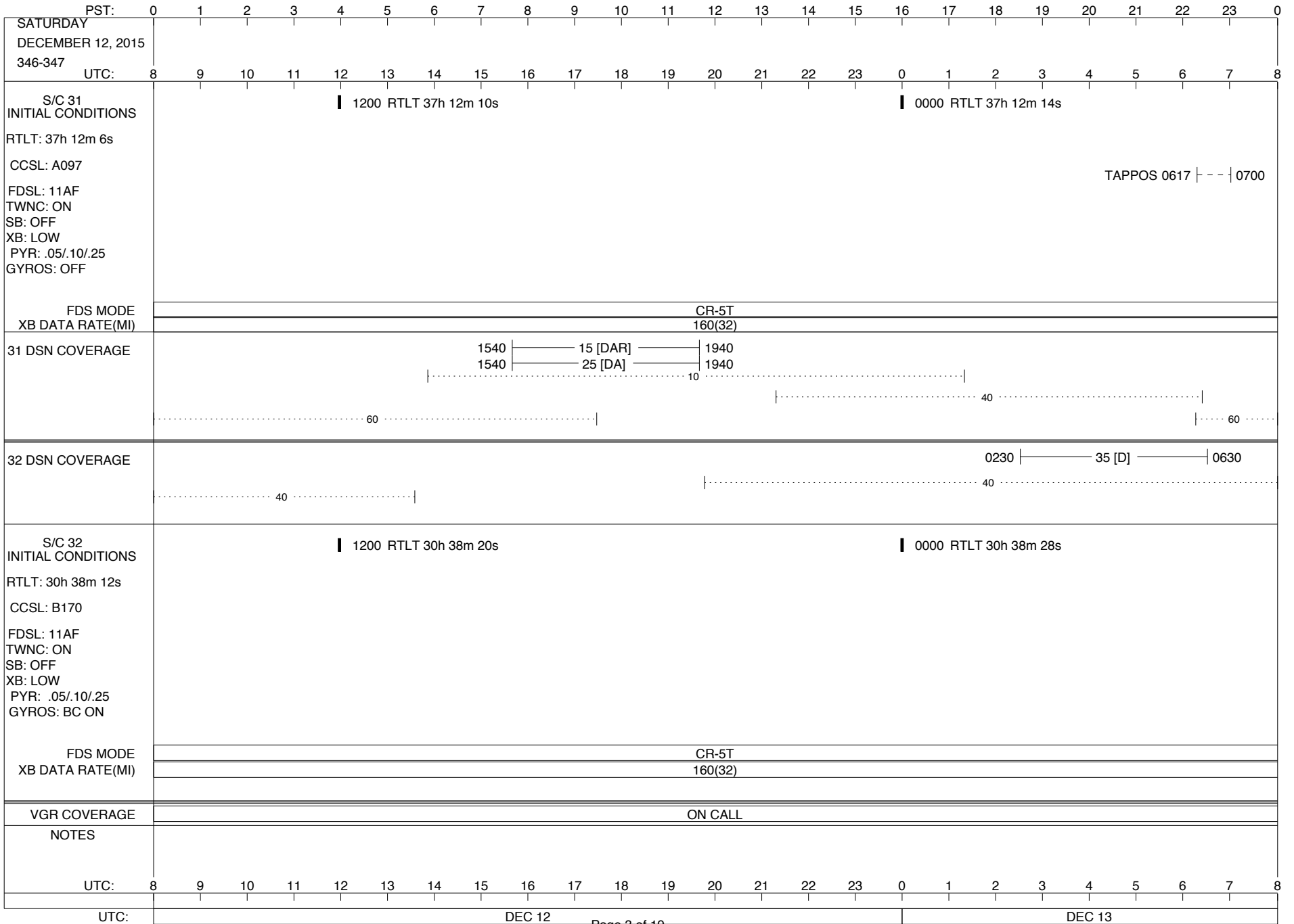
ISSUE DATE: 12/16/15 07:56

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S/C 31 INITIAL CONDITIONS RTLTL: 37h 11m 48s CCSL: A097 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF		█ 1200 RTLTL 37h 11m 52s														█ 0000 RTLTL 37h 11m 58s																				
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)														CR-5T 160(32)																				
31 DSN COVERAGE		<p>..... .....10..... .....</p> <p>..... .....40..... .....</p> <p>63 [T]   0800 - 1030   .....60.....</p>																																		
32 DSN COVERAGE		<p>43 [D]   0910</p> <p>0940   35 [DA]   1340</p> <p>0940   45 [DAR]   1340</p> <p>.....40..... .....</p> <p>0000   43 [B]   0145</p> <p>.....40..... .....</p>																																		
S/C 32 INITIAL CONDITIONS RTLTL: 30h 37m 40s CCSL: B170 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: AC ON		█ 1200 RTLTL 30h 37m 48s														█ 0000 RTLTL 30h 37m 56s																				
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 @ 0619 XB=2.8K(41) NOT RECOVERABLE																																		
UTC:		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8										
UTC:		DEC 10														DEC 11																				

ISSUE DATE: 12/16/15 07:56



ISSUE DATE: 12/16/15 07:56



ISSUE DATE: 12/16/15 07:56

PST:	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
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S/C 31 INITIAL CONDITIONS RTLTL: 37h 12m 14s CCSL: A097 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 37h 12m 18s												0000 RTLTL 37h 12m 22s												
	0919   0920 PWS/RH												U/L 0640   -												
	0931   - - - -   1027 TAPPOS												TLC (SHORT-FORM)   - - - -												
	↓ 0919 GS-4B 0920																								
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	1425  -----  14 [D]  -----  1825												10 ..... -----  40 .....												
	60 ..... -----												0615  -----  63 [T]  -----												
													60												
32 DSN COVERAGE	40 ..... -----												0145  -----  35 [D]  -----  0645												
													40 ..... -----												
S/C 32 INITIAL CONDITIONS RTLTL: 30h 38m 28s CCSL: B170 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: BC ON	1200 RTLTL 30h 38m 36s												0000 RTLTL 30h 38m 42s												
													0332   - COMMAND MORATORIUM -												
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
VGR COVERAGE	ON CALL																								
NOTES	[1] S/C 31=GS-4B @ 0919 XB=2.8K(41) NOT RECOVERABLE																								
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
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ISSUE DATE: 12/16/15 07:56

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MONDAY DECEMBER 14, 2015 348-349	UTC: 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8		
S/C 31 INITIAL CONDITIONS RTLT: 37h 12m 22s CCSL: A097 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	█ 1200 RTLT 37h 12m 26s												█ 0000 RTLT 37h 12m 30s														
----- TLC (SHORT-FORM) -----																											
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)														
31 DSN COVERAGE	.....  10 .....												.....  40 .....														
	63 [T]   1015 .....												.....  60 .....														
32 DSN COVERAGE	.....  40 .....												1940   43 [D]   2040 .....														
S/C 32 INITIAL CONDITIONS RTLT: 30h 38m 42s CCSL: B170 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: BC ON	█ 1200 RTLT 30h 38m 50s												█ 0000 RTLT 30h 38m 58s														
----- COMMAND MORATORIUM -----																											
													↓ 0110 GYRO INIT														
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)														
VGR COVERAGE	ON CALL																										
NOTES																											
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8		
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ISSUE DATE: 12/16/15 07:56

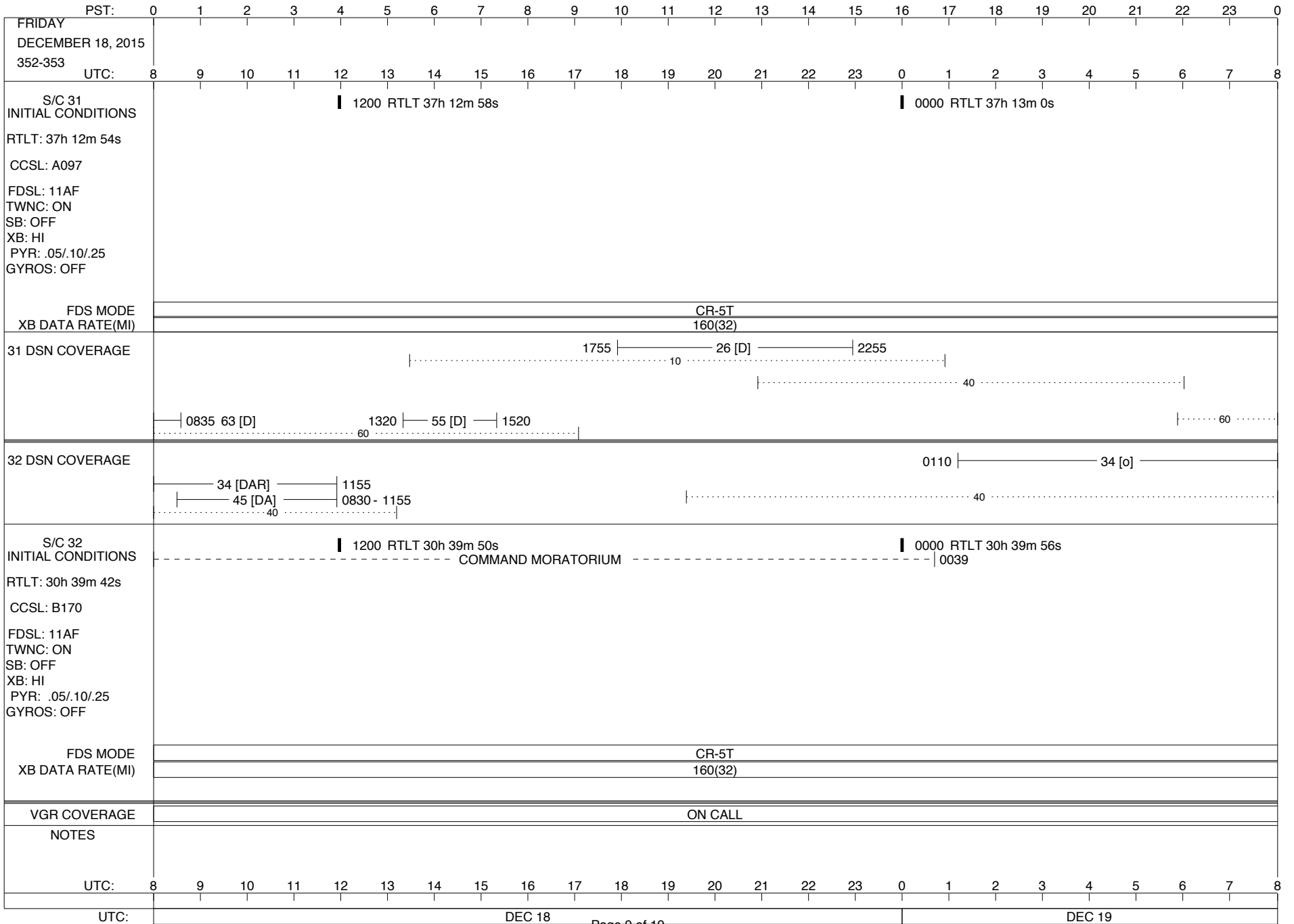
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TUESDAY																													
DECEMBER 15, 2015																													
349-350																													
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S/C 31 INITIAL CONDITIONS		1200 RTLT 37h 12m 34s														0000 RTLT 37h 12m 38s													
RTLTL: 37h 12m 30s																													
CCSL: A097																													
FDSL: 11AF		----- TLC (SHORT-FORM) -----  D/L -  2120 2342   2343 PWS/RH																											
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																													
32 DSN COVERAGE																													
S/C 32 INITIAL CONDITIONS		1200 RTLT 30h 39m 6s														0000 RTLT 30h 39m 12s													
RTLTL: 30h 38m 58s		----- COMMAND MORATORIUM -----																											
CCSL: B170		↓ 0941 BAY 1 HTR OFF ↓ 0945 X/B HI POWER ↓ 1009 ALL DB=.05 ↓ 1025 AAI ↓ 1100 RAI ↓ 1103 CRU ↓ 1111 YAW=.10 ↓ 1111 ROLL=.25 ↓ 1112 GYRO FAULT TEST ↓ 1106																											
FDSL: 11AF		0119   PLSCAL -  0302																											
TWNC: ON		0119   --- MAGCAL ---   0422																											
SB: OFF		0119   --- PESCAL ---   0439																											
XB: LOW		↓ 0533 AAI																											
PYR: .05/.10/.25		0536   - - MAGROL - -																											
GYROS: BC ON																													
FDS MODE		CR-5T							EL-40							CR-5T													
XB DATA RATE(MI)		160(32)							40(30)							160(32)													
VGR COVERAGE		VGR							ON CALL							VGR													
NOTES		[1] S/C 31=GS-4B @ 2342 XB=2.8K(41) NOT RECOVERABLE [2] S/C 32=D/L AGC & SNR VARIATIONS EXPECTED DURING ASCAL (1026-1103) [3] S/C 32=EL-40 @ 0954 XB=40(30) [4] S/C 32=D/L AGC & SNR VARIATIONS EXPECTED DURING MAGROL (0536-1131)																											
UTC:		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8			
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ISSUE DATE: 12/16/15 07:56

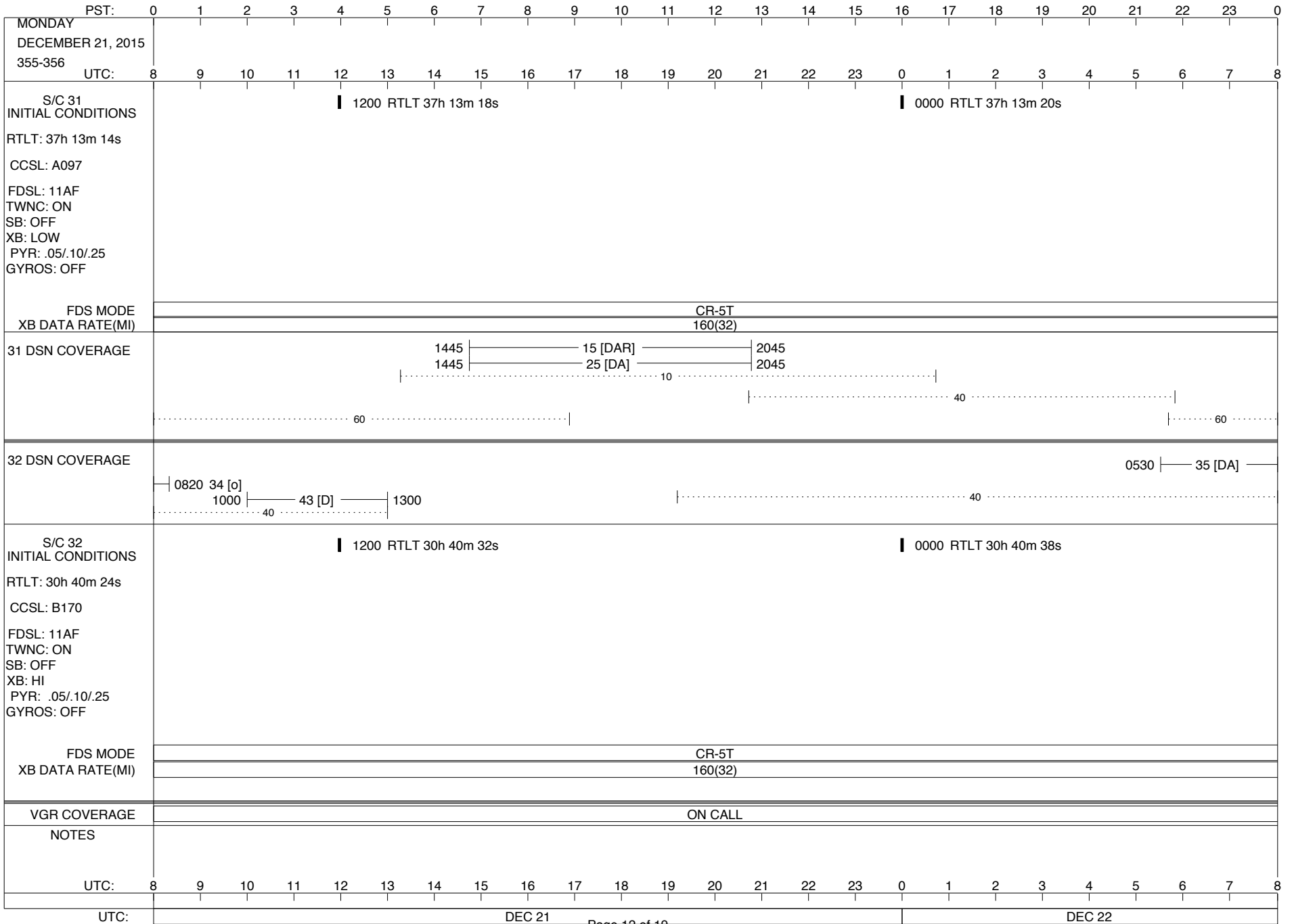


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S/C 31 INITIAL CONDITIONS RTLTL: 37h 13m 0s CCSL: A097 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: OFF		1200 RTLTL 37h 13m 4s														0000 RTLTL 37h 13m 8s													
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)							PB-14 1.4K(39)							CR-5T 160(32)													
31 DSN COVERAGE		<p>Timeline for S/C 31 DSN COVERAGE:</p> <ul style="list-style-type: none"> <li>1530 - 1530: 14 [DA] (2320)</li> <li>1530 - 1530: 24 [DA] (2320)</li> <li>1530 - 1530: 25 [DAR] (2320)</li> <li>10:00 - 10:10: 10 (2320)</li> <li>60:00 - 60:10: 10 (2320)</li> <li>40:00 - 40:10: 10 (2320)</li> <li>60:00 - 60:10: 10 (2320)</li> </ul>																											
32 DSN COVERAGE		<p>Timeline for S/C 32 DSN COVERAGE:</p> <ul style="list-style-type: none"> <li>0830 - 0834: 34 [o]</li> <li>1005 - 1005: 43 [D] (1300)</li> <li>40:00 - 40:00: 40 (1300)</li> <li>40:00 - 40:00: 40 (1300)</li> </ul>																											
S/C 32 INITIAL CONDITIONS RTLTL: 30h 39m 56s CCSL: B170 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: OFF		1200 RTLTL 30h 40m 4s														0000 RTLTL 30h 40m 10s													
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)																											
VGR COVERAGE		ON CALL									VGR									ON CALL									
NOTES		<p>[1] S/C 31=PB-14 @ 1601 XB=1.4K(39)</p> <p>[2] S/C 31 CR-5T @ 2237 XB=160(32)</p>																											
UTC:		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8			
UTC:		DEC 19														DEC 20													

ISSUE DATE: 12/16/15 07:56

PST:	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 DECEMBER 20, 2015 354-355																										
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	
S/C 31 INITIAL CONDITIONS RTLT: 37h 13m 8s CCSL: A097 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 37h 13m 12s												█ 0000 RTLT 37h 13m 14s													
	0855   0857 PWS/RH												0907   TAPPOS -   1045													
	↓ 0855 GS-4B 0857																									
FDS MODE XB DATA RATE(MI)	CR-5T												CR-5T 160(32)													
31 DSN COVERAGE	1320  ----- 14 [D] -----  1720												10 .....   ..... 40 .....   ..... 60 .....													
32 DSN COVERAGE	1000  ----- 43 [D] -----  1305												40 .....   ..... 40 .....  0400  ----- 34 [o] -----													
S/C 32 INITIAL CONDITIONS RTLT: 30h 40m 10s CCSL: B170 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 30h 40m 18s												█ 0000 RTLT 30h 40m 24s													
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)													
VGR COVERAGE													ON CALL													
NOTES	[1] S/C 31=GS-4B @ 0855 XB=2.8K(41) NOT RECOVERABLE																									
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UTC:	DEC 20													DEC 21												

ISSUE DATE: 12/16/15 07:56



PST:		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			
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TUESDAY DECEMBER 22, 2015 356-357																													
S/C 31 INITIAL CONDITIONS RTLTL: 37h 13m 20s CCSL: A097 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF		1200 RTLT 37h 13m 24s														0000 RTLT 37h 13m 26s													
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)														CR-5T 160(32)													
31 DSN COVERAGE		<p>2000  -----  24 [DA]  -----  0035                  2000  -----  25 [DAR]  -----  0035                   -----  2310   26 [DA]  -----  0035</p> <p>..... 60 .....  -----  10 .....  -----  40 .....  -----  60 .....</p>																											
32 DSN COVERAGE		<p> -----  35 [DA]  -----  1255  -----  2350  -----  35 [DAR]  -----                    -----  45 [DAR]  -----  0815 - 1255  ----- </p> <p>..... 40 .....  -----  40 .....</p>																											
S/C 32 INITIAL CONDITIONS RTLTL: 30h 40m 38s CCSL: B170 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/10/25 GYROS: OFF		1200 RTLT 30h 40m 44s														0000 RTLT 30h 40m 52s													
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)														EL-40 40(30)							CR-5T 160(32)						
VGR COVERAGE		ON CALL														VGR													
NOTES		<p>[1] S/C 31=GS-4B @ 2318 XB=2.8K(41) NOT RECOVERABLE                  [2] S/C 32=EL-40 @ 0526 XB=40(30)                  [3] S/C 32=CR-5T @ 0641 XB=160(32)</p>																											
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UTC:		DEC 22														DEC 23													

ISSUE DATE: 12/16/15 07:56

PST:		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																													
DECEMBER 23, 2015																													
357-358																													
UTC:		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8			
S/C 31 INITIAL CONDITIONS		█ 1200 RTLT 37h 13m 30s														█ 0000 RTLT 37h 13m 32s													
RTLT: 37h 13m 26s																													
CCSL: A097																													
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		<p>Timeline for 31 DSN COVERAGE:</p> <ul style="list-style-type: none"> <li>1710 - 1800: 24 [DA]</li> <li>1710 - 1800: 26 [DAR]</li> <li>1350 - 1710: 54 [DAR]</li> <li>1350 - 1710: 55 [DA]</li> <li>1530 - 1710: 65 [DA]</li> <li>0535 - 0600: 63 [D]</li> </ul>																											
32 DSN COVERAGE		<p>Timeline for 32 DSN COVERAGE:</p> <ul style="list-style-type: none"> <li>1115 - 1115: 35 [DAR]</li> <li>0810 - 1115: 45 [DA]</li> <li>1110 - 1250: 43 [B]</li> </ul>																											
S/C 32 INITIAL CONDITIONS		█ 1200 RTLT 30h 40m 58s														█ 0000 RTLT 30h 41m 4s													
RTLT: 30h 40m 52s																													
CCSL: B170																													
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		<p>▼ 1217 DUMMY (5 MIN BRACKETED 18:58)</p> <p>0324   0330 CCSTIMB FINE</p>																											
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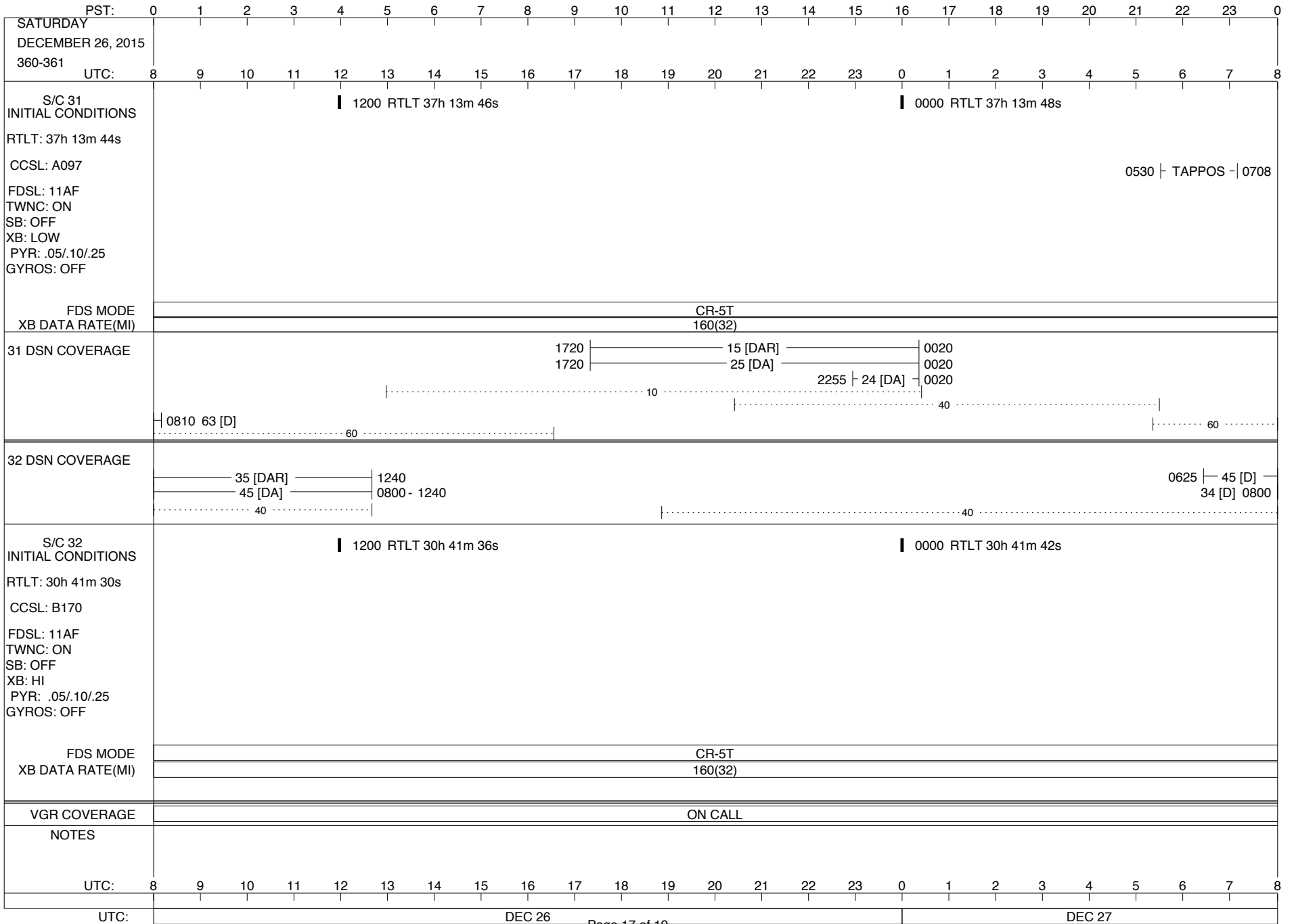




ISSUE DATE: 12/16/15 07:56

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S/C 31 INITIAL CONDITIONS RTLT: 37h 13m 38s CCSL: A097 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF				1200 RTLT 37h 13m 42s											0000 RTLT 37h 13m 44s														
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)																
31 DSN COVERAGE				1510  ----- 14 [D] -----  1910  ----- 10 -----											----- 40 -----														
		0810 63 [D]		----- 60 -----											0525  ----- 63 [D] -----   ----- 60 -----														
32 DSN COVERAGE		0845  ----- 43 [D] -----  1245  ----- 40 -----													0010  ----- 43 [o] -----  0455 35 [DAR] 0645  ----- 45 [DA] 0800														
S/C 32 INITIAL CONDITIONS RTLT: 30h 41m 18s CCSL: B170 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: OFF				1200 RTLT 30h 41m 24s											0000 RTLT 30h 41m 30s														
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)																
VGR COVERAGE		ON CALL																											
NOTES		JPL HOLIDAY!																											
UTC:		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8			
UTC:		DEC 25														DEC 26													

ISSUE DATE: 12/16/15 07:56



ISSUE DATE: 12/16/15 07:56

PST:	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			
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S/C 31 INITIAL CONDITIONS RTLTL: 37h 13m 48s CCSL: A097 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 37h 13m 52s												█ 0000 RTLTL 37h 13m 54s															
	█ 0831 - 0833 PWS/RH   TAPPOS   0843 - 1008																											
	↓ 0831 GS-4B 0833																											
FDS MODE													CR-5T															
XB DATA RATE(MI)													160(32)															
31 DSN COVERAGE	1255  ----- 14 [D] -----  1655												10 ..... ----- 40 .....															
	..... ----- 60 .....												0555  ----- 63 .....  ..... ----- 60 .....															
32 DSN COVERAGE	45 [D]  ----- 1050				34 [D]  ----- 0800 - 1050				1850  ----- 43 [D] -----  2340				40 ..... ----- 43 [D] 0730  -----															
	..... ----- 40 .....																											
S/C 32 INITIAL CONDITIONS RTLTL: 30h 41m 42s CCSL: B170 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 30h 41m 48s												█ 0000 RTLTL 30h 41m 54s															
FDS MODE													CR-5T															
XB DATA RATE(MI)													160(32)															
VGR COVERAGE													ON CALL															
NOTES	[1] S/C 31=GS-4B @ 0831 XB=2.8K(41) NOT RECOVERABLE																											
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8			
UTC:	DEC 27														DEC 28													

ISSUE DATE: 12/16/15 07:56

PST:	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 DECEMBER 28, 2015 362-363																									
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLT: 37h 13m 54s CCSL: A097 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 37h 13m 56s</p> </div>																								
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
31 DSN COVERAGE	<div style="text-align: center;"> <p>1250  —— 14 [D] ——  1515</p> </div>																								
	<div style="text-align: center;"> <p>63  ——  0955</p> </div>																								
32 DSN COVERAGE	<div style="text-align: center;"> <p>1230  —— 43 [D] ——  2115</p> </div>																								
	<div style="text-align: center;"> <p>40  —— </p> </div>																								
S/C 32 INITIAL CONDITIONS RTLT: 30h 41m 54s CCSL: B170 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/10/25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 30h 42m 0s</p> </div>																								
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
VGR COVERAGE	ON CALL																								
NOTES	JPL HOLIDAY!																								
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
UTC:	DEC 28												DEC 29												