

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: August 26, 2016

For the Period: 09/01/16 to 09/18/16 (16-245 – 16-262)

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

**DSOT (1) 230-102**

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**SCIENCE**

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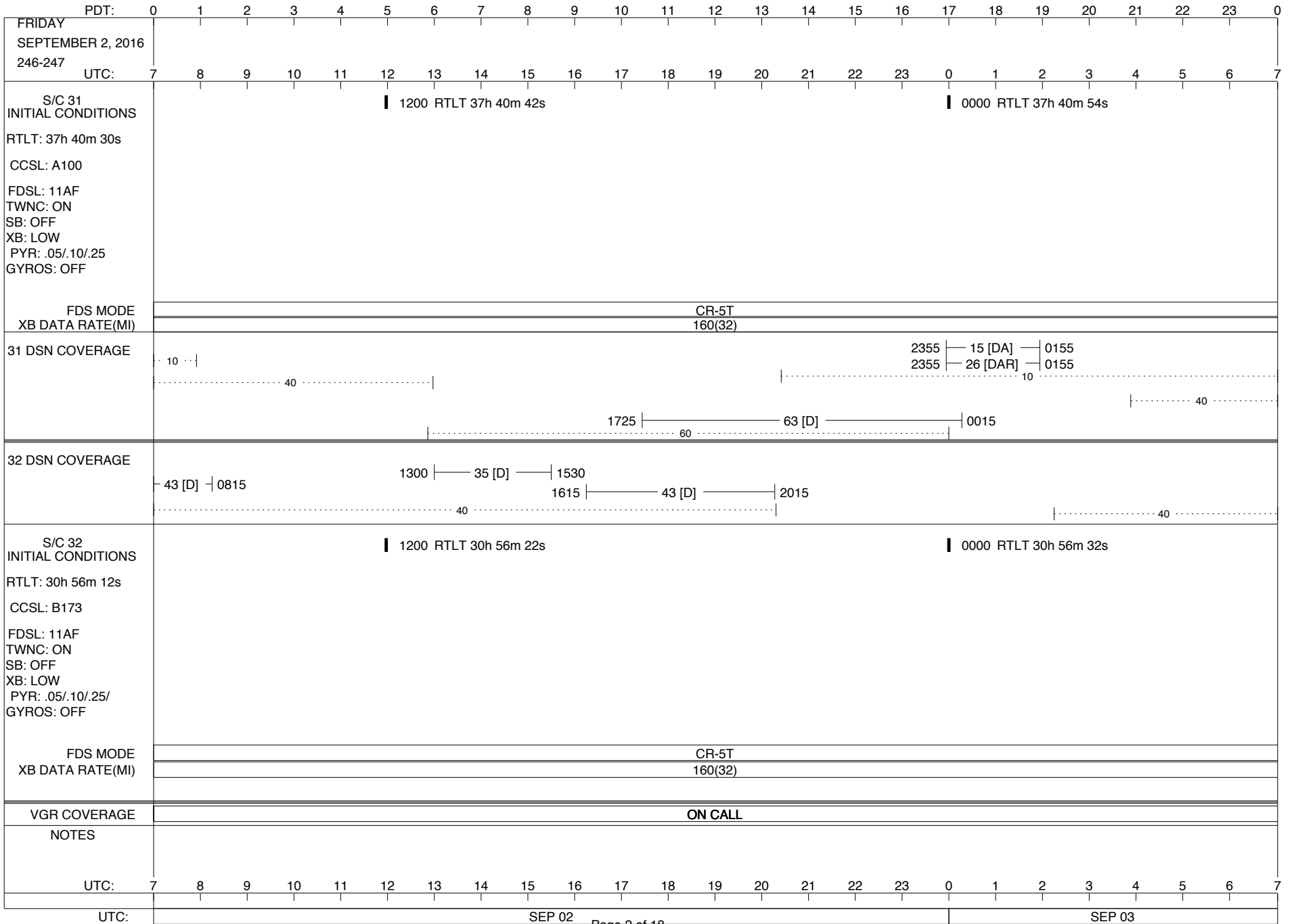
**FLIGHT TEAM (14) 600-100**

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

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 SEPTEMBER 1, 2016 245-246																										
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: 37h 40m 6s CCSL: A100 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 37h 40m 18s												0000 RTLTL 37h 40m 30s													
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
31 DSN COVERAGE	0145   0240 14 [D]												1725   63 [D]   2250													
32 DSN COVERAGE	0810   34 [D]   1535												1755   34 [DA]   1950 1755   45 [DAR]   1950													
S/C 32 INITIAL CONDITIONS RTLTL: 30h 55m 52s CCSL: B173 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 30h 56m 2s												0000 RTLTL 30h 56m 12s													
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 @ 1521 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:	SEP 01												SEP 02													



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 SEPTEMBER 3, 2016 247-248	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: 37h 40m 54s CCSL: A100 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 37h 41m 6s												0000 RTLTL 37h 41m 18s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	10   40   1725   60   63 [D]   0020   0135   10   40												0020   14 [D]   0135												
32 DSN COVERAGE	0855   34 [o]   1525   1745   34 [DAR]   1945   1745   45 [DA]   1945   40												45 [D] 0655   40												
S/C 32 INITIAL CONDITIONS RTLTL: 30h 56m 32s CCSL: B173 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 30h 56m 42s												0000 RTLTL 30h 56m 52s												
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 @ 1821 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:	SEP 03												SEP 04												

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 SEPTEMBER 4, 2016 248-249																									
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: 37h 41m 18s CCSL: A100 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 37h 41m 30s												0000 RTLTL 37h 41m 42s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	10 ..    .....40 .....												.....10 .....												
	.....40 .....												.....0535   43 [D]     .....40 .....												
	.....1730   .....63 [D] ..... 0015												.....60 .....												
32 DSN COVERAGE	.....45 [D] .....  1525												.....1700   .....43 [D] .....  1955												
	.....40 .....												.....40 .....												
S/C 32 INITIAL CONDITIONS RTLTL: 30h 56m 52s CCSL: B173 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 30h 57m 0s												0000 RTLTL 30h 57m 10s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												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:	SEP 04												SEP 05												

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 SEPTEMBER 5, 2016 249-250																																				
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: 37h 41m 42s CCSL: A100 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 37h 41m 54s												0000 RTLTL 37h 42m 6s																							
FDS MODE	CR-5T												CR-5T																							
XB DATA RATE(MI)	160(32)												160(32)																							
31 DSN COVERAGE	10												..... 10 .....																							
	43 [D]				0935				1730				63 [D]				0010				..... 40 .....															
	40				.....				60				.....				.....																			
32 DSN COVERAGE	0950   ..... 35 [D]   1520												1740   34 [DAR]   1935												35 [D] 0645											
	..... 40												45 [DA]   1935												..... 40											
S/C 32 INITIAL CONDITIONS RTLTL: 30h 57m 10s CCSL: B173 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 30h 57m 20s												0000 RTLTL 30h 57m 30s																							
FDS MODE	CR-5T												CR-5T																							
XB DATA RATE(MI)	160(32)												160(32)																							
VGR COVERAGE	ON CALL																																			
NOTES	JPL HOLIDAY!																																			
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:	SEP 05												SEP 06																							

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 SEPTEMBER 6, 2016 250-251	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: 37h 42m 6s CCSL: A100 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 37h 42m 16s												0000 RTLTL 37h 42m 28s												
U/L 0905   -	----- TLC (SHORT-FORM) -----																								
↓ 0845 GS-4B 0846																									
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 RTLTL: 30h 57m 30s CCSL: B173 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 30h 57m 40s												0000 RTLTL 30h 57m 50s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
VGR COVERAGE	ON CALL																								
NOTES	[1] S/C 31=GS-4B @ 0845 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:	SEP 06												SEP 07												

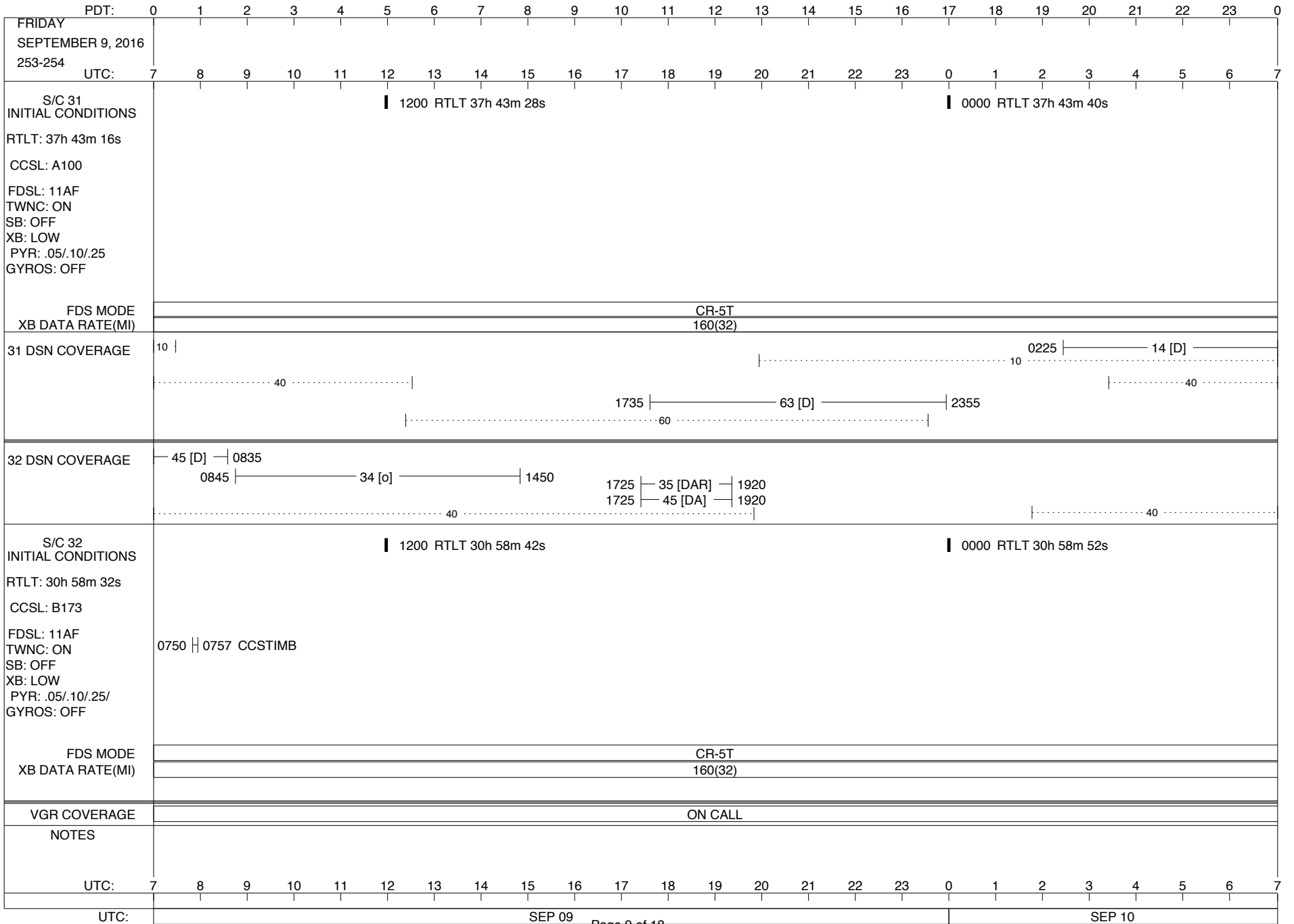
ISSUE DATE: 09/06/16 14:08

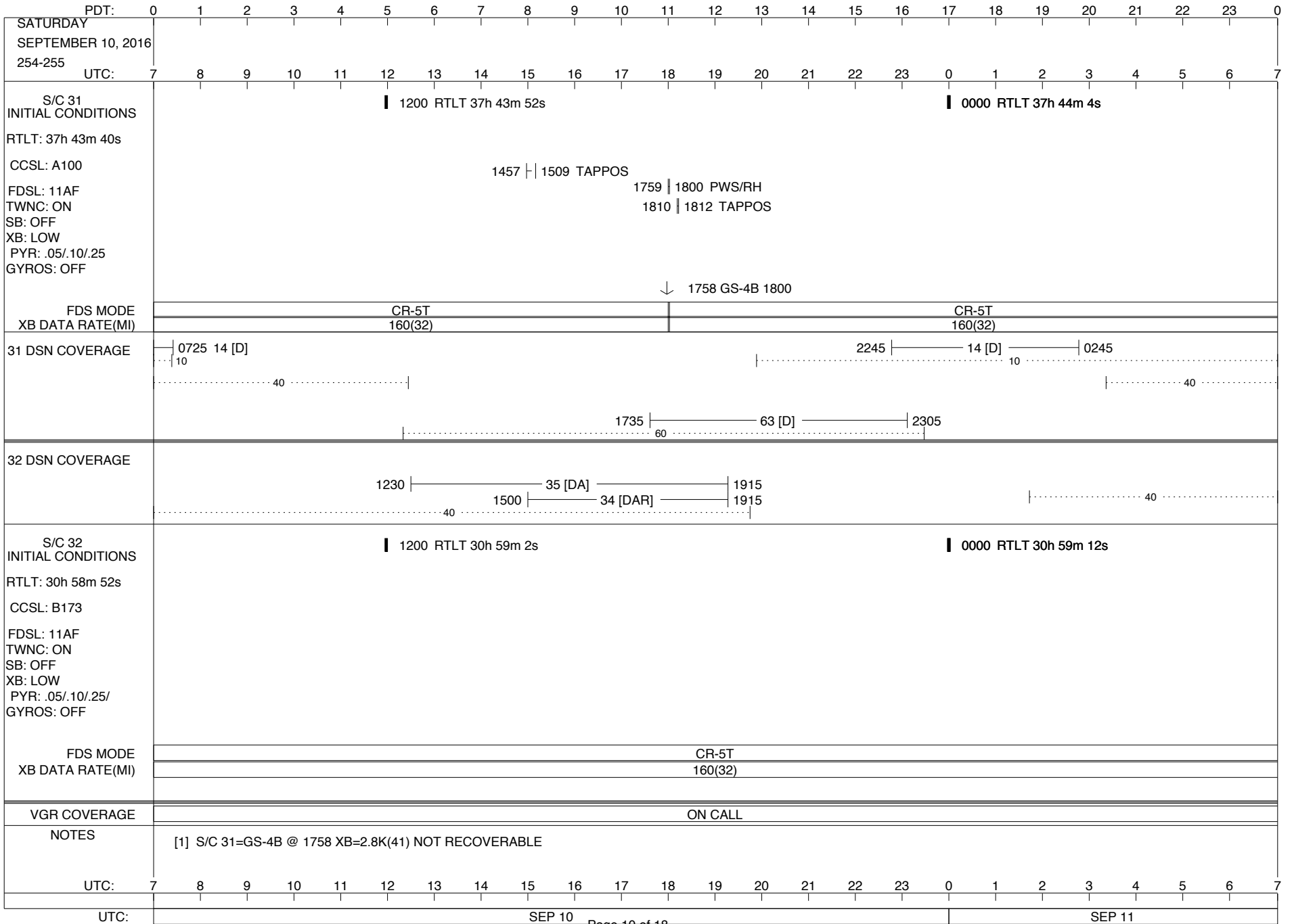
PDT:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0											
WEDNESDAY SEPTEMBER 7, 2016 251-252																																				
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7											
S/C 31 INITIAL CONDITIONS RTLTL: 37h 42m 28s CCSL: A100 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 37h 42m 40s												0000 RTLTL 37h 42m 52s																							
FDS MODE	CR-5T												CR-5T																							
XB DATA RATE(MI)	160(32)												160(32)																							
31 DSN COVERAGE	0735 14 [D]												2315 25 [DAR]												0600											
	10												2315 26 [DA]												0600											
	40												10												40											
	1735 63 [D]												2335																							
	60																																			
32 DSN COVERAGE	1610 43 [B]												1955												34 [D] 0640											
	40																								40											
S/C 32 INITIAL CONDITIONS RTLTL: 30h 57m 50s CCSL: B173 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 30h 58m 0s												0000 RTLTL 30h 58m 10s																							
FDS MODE	CR-5T												CR-5T																							
XB DATA RATE(MI)	160(32)												160(32)																							
VGR COVERAGE	ON CALL												VGR						VGR																	
NOTES	▼ 1632 DUMMY (5 MIN BRACKETED 23:31)																																			
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:	SEP 07												SEP 08																							



ISSUE DATE: 09/06/16 14:08

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 SEPTEMBER 8, 2016 252-253																									
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: 37h 42m 52s CCSL: A100 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 37h 43m 4s 1156   -   1223 TAPPOS 1459   1500 PWS/RH 1510     1523 TAPPOS ▼ 1845 DUMMY (08:28) ↓ 1458 GS-4B 1500												0000 RTLTL 37h 43m 16s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	10   ..... 40 ..... ..... 40 ..... ..... 1750 ..... 63 ..... 0000 ..... 60 .....												..... 10 ..... ..... 40 .....												
32 DSN COVERAGE	..... 34 [D] ..... 1235 ..... ..... 40 .....												..... 45 [D] 0650   ..... ..... 40 .....												
S/C 32 INITIAL CONDITIONS RTLTL: 30h 58m 10s CCSL: B173 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 30h 58m 22s												0000 RTLTL 30h 58m 32s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	VGR												VGR						ON CALL						
NOTES	[1] S/C 31=GS-4B @ 1458 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:	SEP 08												SEP 09												





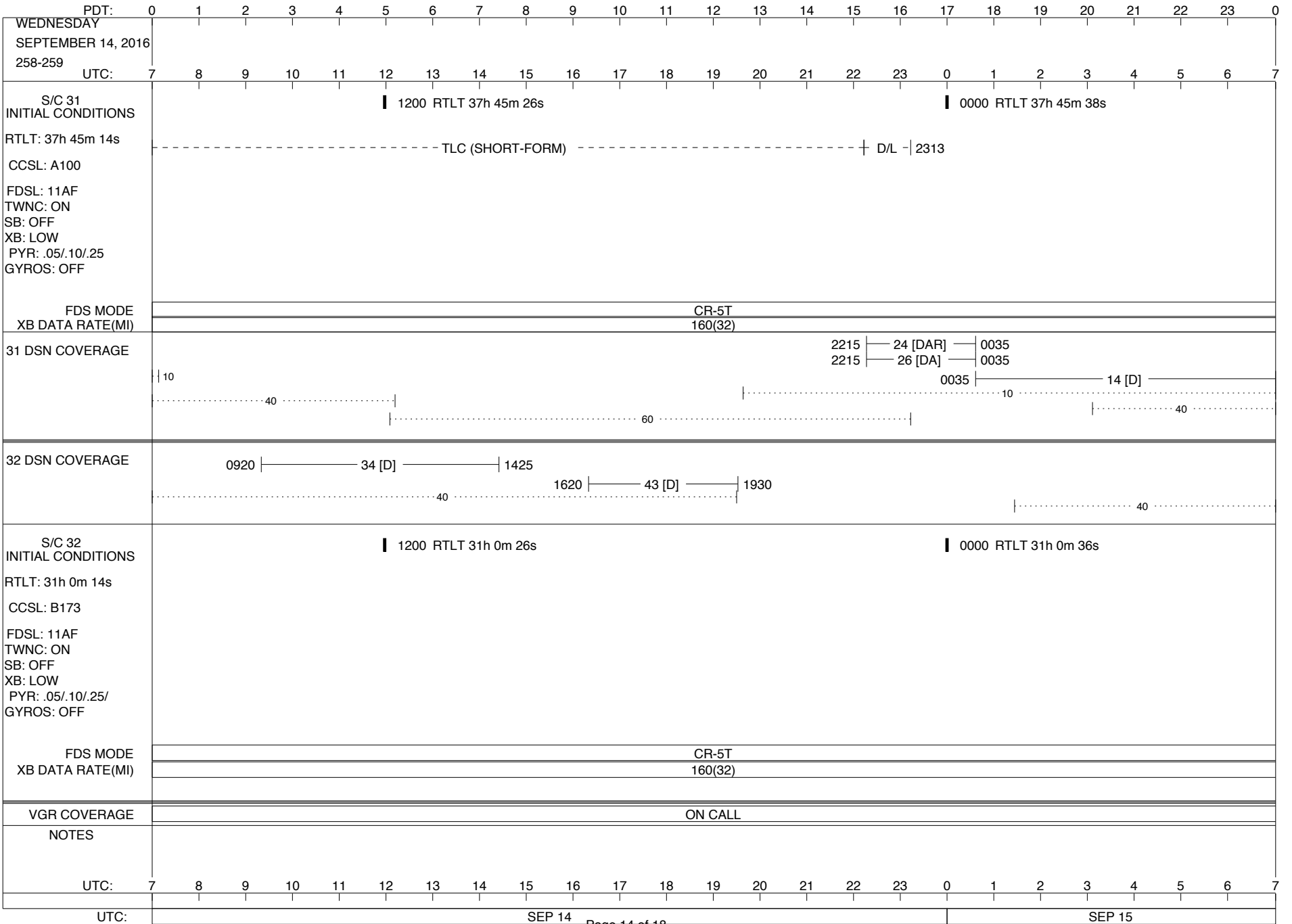
ISSUE DATE: 09/06/16 14:08

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 SEPTEMBER 11, 2016 255-256																									
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: 37h 44m 4s CCSL: A100 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 37h 44m 16s												0000 RTLT 37h 44m 28s												
FDS MODE	CR-5T																								
XB DATA RATE(MI)	160(32)																								
31 DSN COVERAGE	10 .....40.....												0315  ----- 14 [D] -----  ----- 40 -----												
	----- 60 -----												1740  ----- 63 [D] -----  2350												
32 DSN COVERAGE	----- 40 -----												1500  ----- 43 [D] -----  1940  ----- 40 -----												
S/C 32 INITIAL CONDITIONS RTLT: 30h 59m 12s CCSL: B173 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 30h 59m 22s												0000 RTLT 30h 59m 32s												
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:	SEP 11												SEP 12												



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 SEPTEMBER 13, 2016 257-258																									
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: 37h 44m 50s CCSL: A100 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 37h 45m 2s												0000 RTLTL 37h 45m 14s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	10 43 [T] 1215 40 60												2315 15 [DA] 0540 2315 25 [DAR] 0540 10 40												
32 DSN COVERAGE	0830 35 [D] 1445 40												40												
S/C 32 INITIAL CONDITIONS RTLTL: 30h 59m 54s CCSL: B173 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 31h 0m 4s												0000 RTLTL 31h 0m 14s												
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 @ 0446 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:	SEP 13												SEP 14												

ISSUE DATE: 09/06/16 14:08







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 SEPTEMBER 16, 2016 260-261																										
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: 37h 46m 2s CCSL: A100 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 37h 46m 14s												0000 RTLTL 37h 46m 26s													
	0758     0813 TAPPOS												1100   1101 PWS/RH													
													1112   -   1141 TAPPOS													
													↓ 1100 GS-4B 1101													
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
31 DSN COVERAGE	10										10															
	34 [DAR]   0950				35 [DA]   0950								43 [D] 0605													
	40								40				40													
													60													
32 DSN COVERAGE	1035   34 [D]   1435				1610   43 [D]   1920								40													
													40													
S/C 32 INITIAL CONDITIONS RTLTL: 31h 0m 56s CCSL: B173 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 31h 1m 8s												0000 RTLTL 31h 1m 18s													
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
VGR COVERAGE													ON CALL													
NOTES	[1] S/C 31=GS-4B @ 1100 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:	SEP 16													SEP 17												

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 SEPTEMBER 17, 2016 261-262																									
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: 37h 46m 26s CCSL: A100 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 37h 46m 38s												0000 RTLTL 37h 46m 48s												
FDS MODE	CR-5T																								
XB DATA RATE(MI)	160(32)																								
31 DSN COVERAGE	43 [D]   1005												0050   24 [DAR]   0520 0050   25 [DA]   0520 0530 - 0650   14 [D]												
32 DSN COVERAGE	0925   34 [o]   1430												10 40												
S/C 32 INITIAL CONDITIONS RTLTL: 31h 1m 18s CCSL: B173 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 31h 1m 28s												0000 RTLTL 31h 1m 40s												
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:	SEP 17												SEP 18												

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 SEPTEMBER 18, 2016 262-263																											
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: 37h 46m 48s CCSL: A100 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p style="text-align: center;">█ 1200 RTLTL 37h 47m 0s</p> <p style="text-align: center;">1058   -   1127 TAPPOS</p> <p style="text-align: center;">1400    1402 PWS/RH</p> <p style="text-align: center;">1412   - -   1455 TAPPOS</p> <p style="text-align: center;">↓ 1400 GS-4B 1402</p>																										
FDS MODE	CR-5T													CR-5T													
XB DATA RATE(MI)	160(32)													160(32)													
31 DSN COVERAGE	<p style="text-align: center;">.....40..... </p> <p style="text-align: center;"> .....60..... </p>																										
32 DSN COVERAGE	<p style="text-align: center;"> -----35 [D]----- 0725- 1430</p> <p style="text-align: center;">1600  -----43 [D]----- 1915</p> <p style="text-align: center;">.....40..... </p>																										
S/C 32 INITIAL CONDITIONS RTLTL: 31h 1m 40s CCSL: B173 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	<p style="text-align: center;">█ 1200 RTLTL 31h 1m 50s</p>																										
FDS MODE	CR-5T																										
XB DATA RATE(MI)	160(32)																										
VGR COVERAGE	ON CALL																										
NOTES	[1] S/C 31=GS-4B @ 1400 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:	SEP 18													SEP 19													