

VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: November 19, 2014

For the Period: 11/20/14 to 12/08/14 (14-324 – 14-342)

DSN OPSCHIEF (1) 230-102

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FLIGHT TEAM (14) 600-100

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 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: 11/20/14 10:34

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
SATURDAY NOVEMBER 22, 2014 326-327																									
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 36h 9m 4s												█ 0000 RTLT 36h 9m 12s												
RTLT: 36h 8m 58s																					GYRO INIT 0540 ↓				
CCSL: A093																					TAPPOS 0722 - -				
FDSL: 11AF																					D/L - 0537				
TWNC: ON																									
SB: OFF																									
XB: LOW																									
PYR: .05/.05/.05																									
GYROS: AC ON																									
FDS MODE																					CR-5T				
XB DATA RATE(MI)																					160(32)				
31 DSN COVERAGE	1510 14 [D] 1705												0130 43 [D] 0530												
60.....											40.....												
60.....											60.....												
32 DSN COVERAGE	35 [D] 1105												1335 43 [D] 1445												
40.....											40.....												
S/C 32 INITIAL CONDITIONS	█ 1200 RTLT 29h 39m 56s												█ 0000 RTLT 29h 40m 6s												
RTLT: 29h 39m 46s																									
CCSL: B165																									
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																									
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:	NOV 22																NOV 23								

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 NOVEMBER 23, 2014 327-328																												
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 36h 9m 18s												█ 0000 RTLT 36h 9m 24s															
RTLT: 36h 9m 12s																												
CCSL: A093																												
FDSL: 11AF																												
TWNC: ON																												
SB: OFF																												
XB: LOW																												
PYR: .05/.05/.05																												
GYROS: AC ON																												
	-- 0829 TAPPOS 1023 1025 PWS/RH 1035 --- 1129 TAPPOS ↓ 1023 GS-4B 1025																											
FDS MODE	CR-5T												CR-5T															
XB DATA RATE(MI)	160(32)												160(32)															
31 DSN COVERAGE 10 60 0340 - 0735 43 [D] 40																											
32 DSN COVERAGE 1045 43 [D] 1445 40																											
S/C 32 INITIAL CONDITIONS	█ 1200 RTLT 29h 40m 14s												█ 0000 RTLT 29h 40m 24s															
RTLT: 29h 40m 6s																												
CCSL: B165																												
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 @ 1023 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:	NOV 23														NOV 24													

ISSUE DATE: 11/20/14 10:34

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 NOVEMBER 24, 2014 328-329	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: 36h 9m 24s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.05/.05 GYROS: AC ON	1200 RTLT 36h 9m 32s												0000 RTLT 36h 9m 38s												
FDS MODE	CR-5T																								
XB DATA RATE(MI)	160(32)																								
31 DSN COVERAGE	-----												-----												
	60												60												
32 DSN COVERAGE	1040 ----- 43 [D] ----- 1440												0320 ----- 45 [D] -----												
	40												40												
S/C 32 INITIAL CONDITIONS RTLT: 29h 40m 24s CCSL: B165 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF													↓ 0027 BEGIN SEQUENCE B166												
													AACS FULMRO 0423 ----- 0546												
													FDS FULMRO 0547 ----- 0702												
													CCSA FULMRO 0759												
FDS MODE	CR-5T												EL-40												
XB DATA RATE(MI)	160(32)												40(30)												
VGR COVERAGE	ON CALL												VGR												
NOTES	[1] S/C 32=EL-40 @ 0349 XB=40(30)																								
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:	NOV 24												NOV 25												

ISSUE DATE: 11/20/14 10:34

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			
TUESDAY																													
NOVEMBER 25, 2014																													
329-330																													
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 36h 9m 44s														0000 RTLT 36h 9m 50s													
RTLT: 36h 9m 38s																													
CCSL: A093																													
FDSL: 11AF																													
TWNC: ON		▼ 1555 DUMMY (04:05)														0047 0047 PWS/RH							↓ 0416 GYROS OFF						
SB: OFF																													
XB: LOW																													
PYR: .05/.05/.05																													
GYROS: AC ON																													
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 29h 40m 52s														0000 RTLT 29h 41m 2s													
RTLT: 29h 40m 24s																													
CCSL: B166																													
FDSL: 11AF																													
TWNC: ON		▼ 1357 DUMMY (5 MIN BRACKETED 19:38)																											
SB: OFF																													
XB: LOW																													
PYR: .05/.10/.25																													
GYROS: OFF																													
FDS MODE		EL-40							CR-5T																				
XB DATA RATE(MI)		40(30)							160(32)																				
VGR COVERAGE		VGR							ON CALL							VGR							ON CALL						
NOTES		<p>[1] S/C 31=GS-4B @ 0047 XB=2.8K(41) NOT RECOVERABLE</p> <p>[2] S/C 32=CR-5T @ 1032 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:		NOV 25														NOV 26													

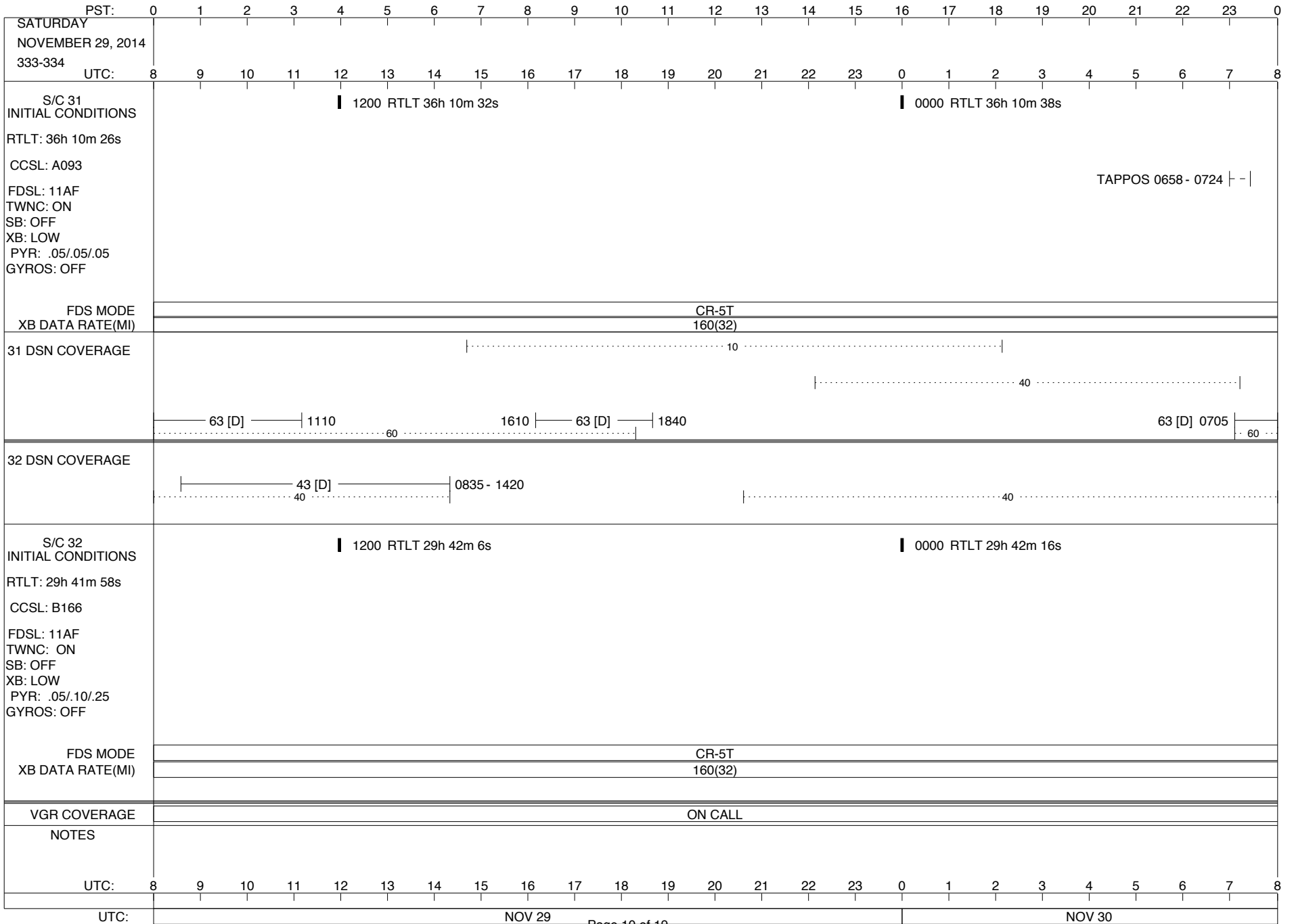
ISSUE DATE: 11/20/14 10:34

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	
THURSDAY NOVEMBER 27, 2014 331-332	
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 RTLTL: 36h 10m 2s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.05/.05 GYROS: OFF	<p>1200 RTLTL 36h 10m 8s</p> <p>0000 RTLTL 36h 10m 14s</p> <p>TLC (SHORT-FORM)</p> <p>0358 - - 0438 TAPPOS PWS/RH 0700 0701 TAPPOS 0712 - 0738 - </p> <p>0700 GS-4B 0701 ↓</p>
FDS MODE XB DATA RATE(MI)	CR-5T 160(32) CR-5T
31 DSN COVERAGE	<p>1450 ----- 14 [D] ----- 1850</p> <p>..... 10</p> <p>..... 40</p> <p>..... 60</p> <p>..... 60</p>
32 DSN COVERAGE	<p>1030 ----- 43 [D] ----- 1430</p> <p>..... 40</p> <p>..... 40</p>
S/C 32 INITIAL CONDITIONS RTLTL: 29h 41m 20s CCSL: B166 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLTL 29h 41m 30s</p> <p>0000 RTLTL 29h 41m 40s</p>
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)
VGR COVERAGE	ON CALL
NOTES	[1] S/C 31=GS-4B @ 0700 XB=2.8K(41) NOT RECOVERABLE 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: NOV 27 NOV 28	

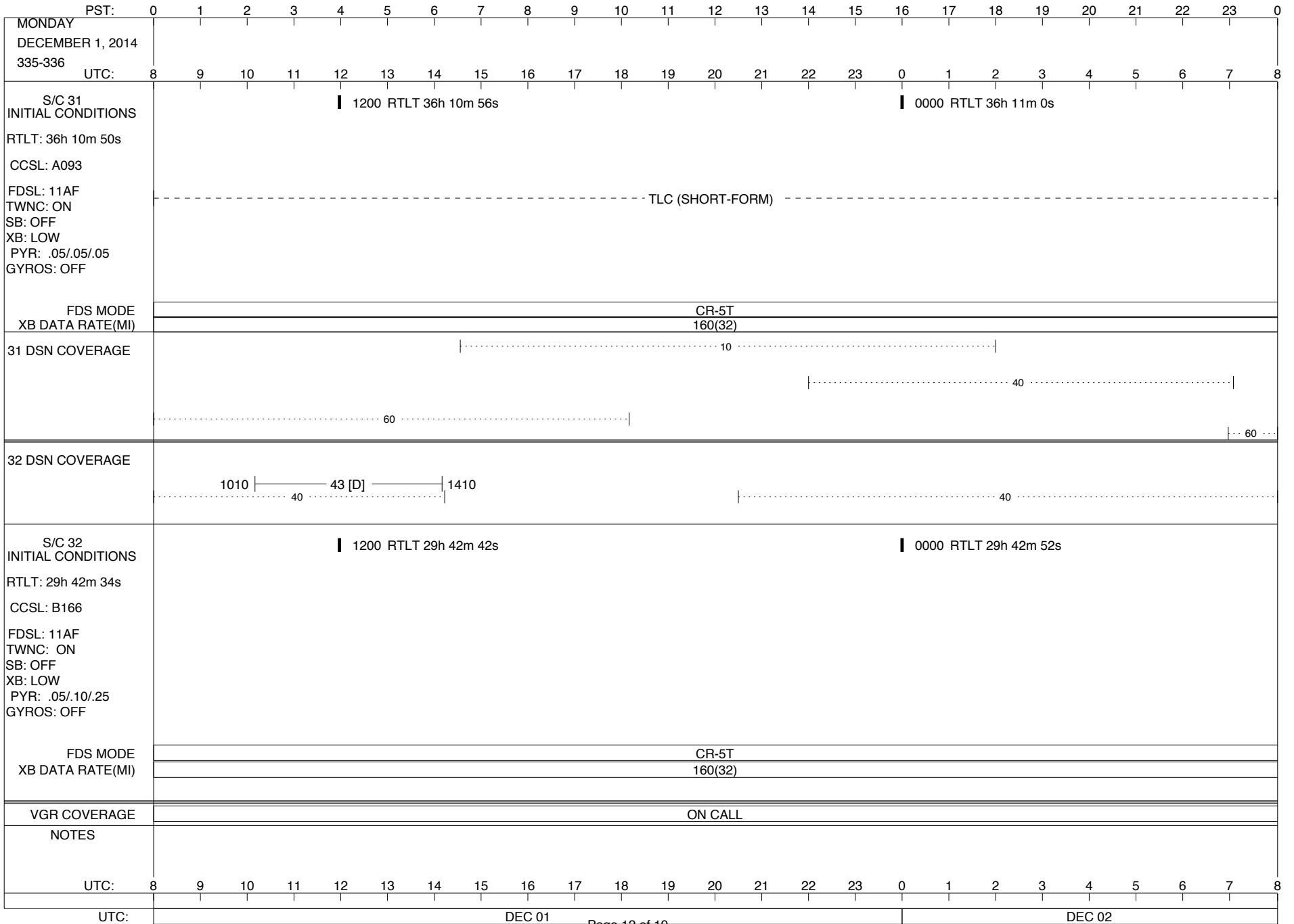
ISSUE DATE: 11/20/14 10:34

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	
FRIDAY NOVEMBER 28, 2014 332-333	
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 RTLTL: 36h 10m 14s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.05/.05 GYROS: OFF	<p>1200 RTLTL 36h 10m 20s</p> <p>0000 RTLTL 36h 10m 26s</p> <p>----- TLC (SHORT-FORM) ----- + D/L - 1548</p>
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)
31 DSN COVERAGE	<p>1445 ----- 14 [D] ----- 1845</p> <p>..... ----- 10 ----- </p> <p>..... ----- 40 ----- </p> <p>..... ----- 60 ----- </p> <p>..... ----- 63 [D] 0710 ----- </p> <p>..... ----- 60 ----- </p>
32 DSN COVERAGE	<p>1025 ----- 43 [D] ----- 1425</p> <p>..... ----- 40 ----- </p> <p>..... ----- 40 ----- </p>
S/C 32 INITIAL CONDITIONS RTLTL: 29h 41m 40s CCSL: B166 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLTL 29h 41m 48s</p> <p>0000 RTLTL 29h 41m 58s</p>
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	
UTC: NOV 28 NOV 29	

ISSUE DATE: 11/20/14 10:34



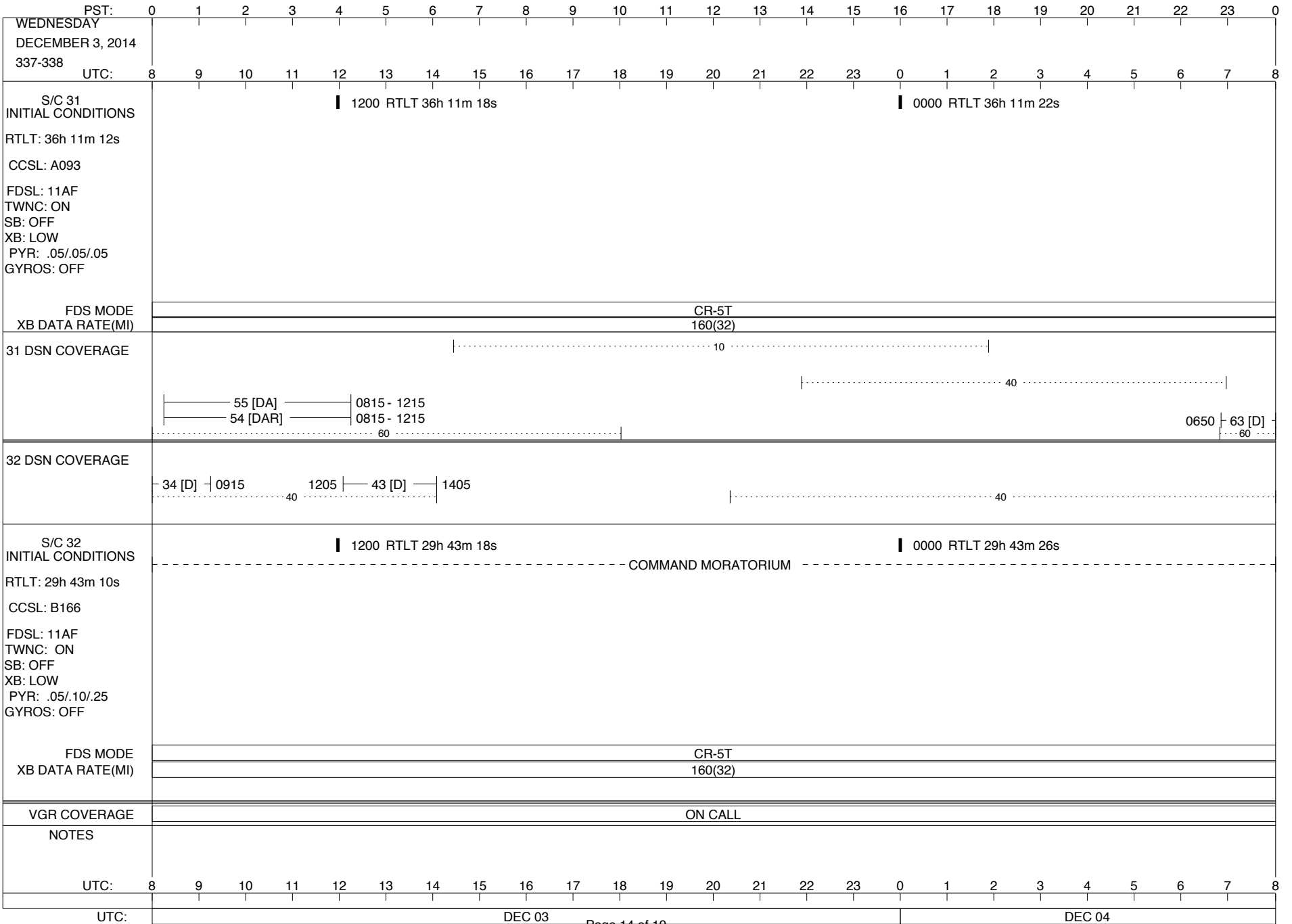
ISSUE DATE: 11/20/14 10:34



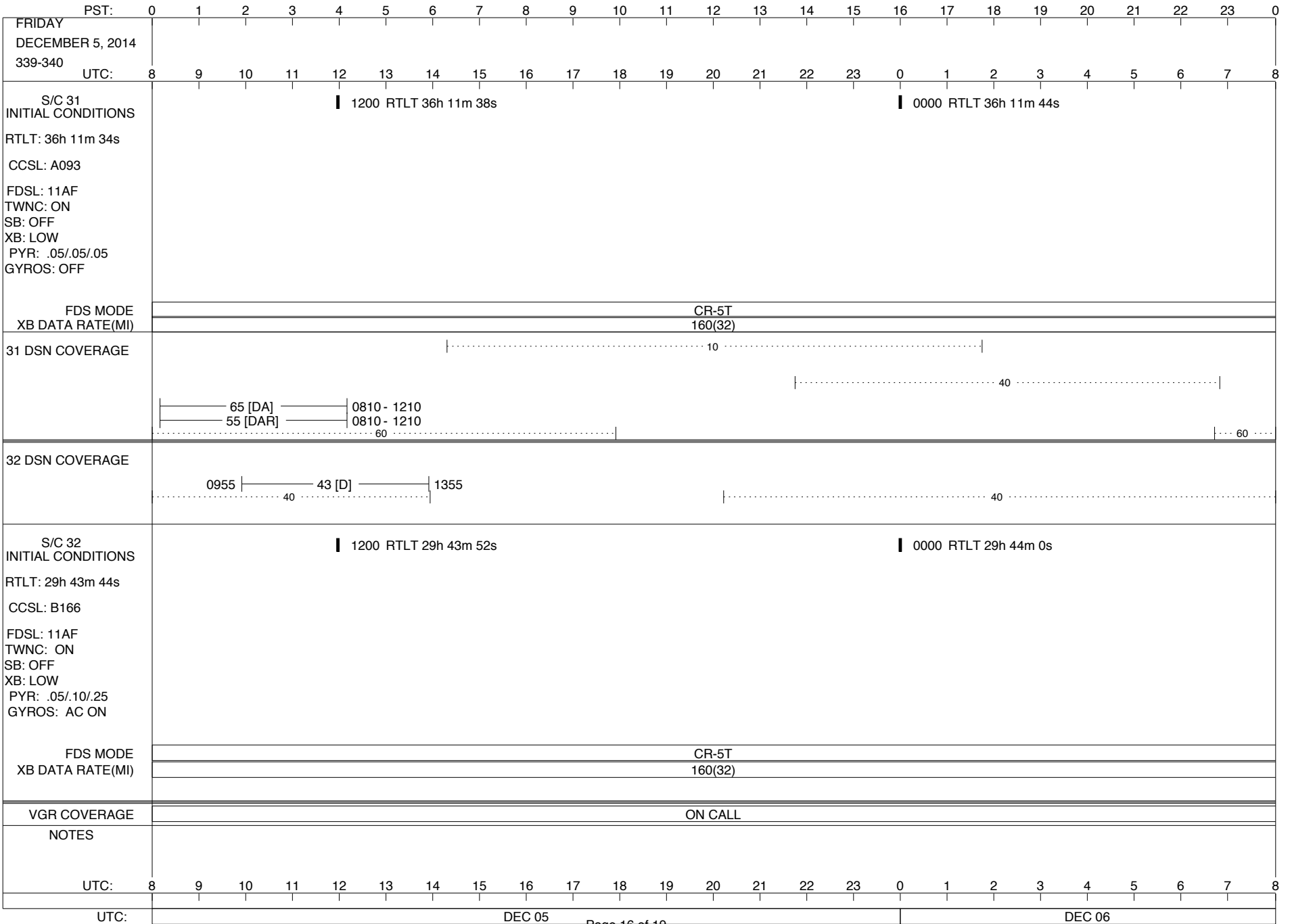
ISSUE DATE: 11/20/14 10:34

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				
TUESDAY DECEMBER 2, 2014 336-337				
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: 36h 11m 0s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.05/.05 GYROS: OFF	<p>1200 RTLT 36h 11m 6s</p> <p>0000 RTLT 36h 11m 12s</p> <p>TLC (SHORT-FORM) D/L - 0959</p> <p>▼ 1545 DUMMY (03:56)</p> <p>0023 0024 PWS/RH</p> <p>↓ 0023 GS-4B 0024</p>			
FDS MODE XB DATA RATE(MI)	<table border="1"> <tr> <td>CR-5T 160(32)</td> <td>CR-5T 160(32)</td> </tr> </table>	CR-5T 160(32)	CR-5T 160(32)	
CR-5T 160(32)	CR-5T 160(32)			
31 DSN COVERAGE	<p>.....10.....</p> <p>.....40.....</p> <p>1445 -----63----- 1830</p> <p>.....60.....60.....</p>			
32 DSN COVERAGE	<p>.....43 [D]----- 0825 - 1410.....</p> <p>.....40.....40.....0430 -----34 [D]-----</p>			
S/C 32 INITIAL CONDITIONS RTLT: 29h 42m 52s CCSL: B166 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLT 29h 43m 0s</p> <p>0000 RTLT 29h 43m 10s</p> <p>COMMAND MORATORIUM 0746 </p> <p>▼ 1327 DUMMY(5 MIN BRACKETED 19:11)</p>			
FDS MODE XB DATA RATE(MI)	<table border="1"> <tr> <td>CR-5T 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	[1] S/C 31=GS-4B @ 0023 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 02 Page 13 of 19 DEC 03				

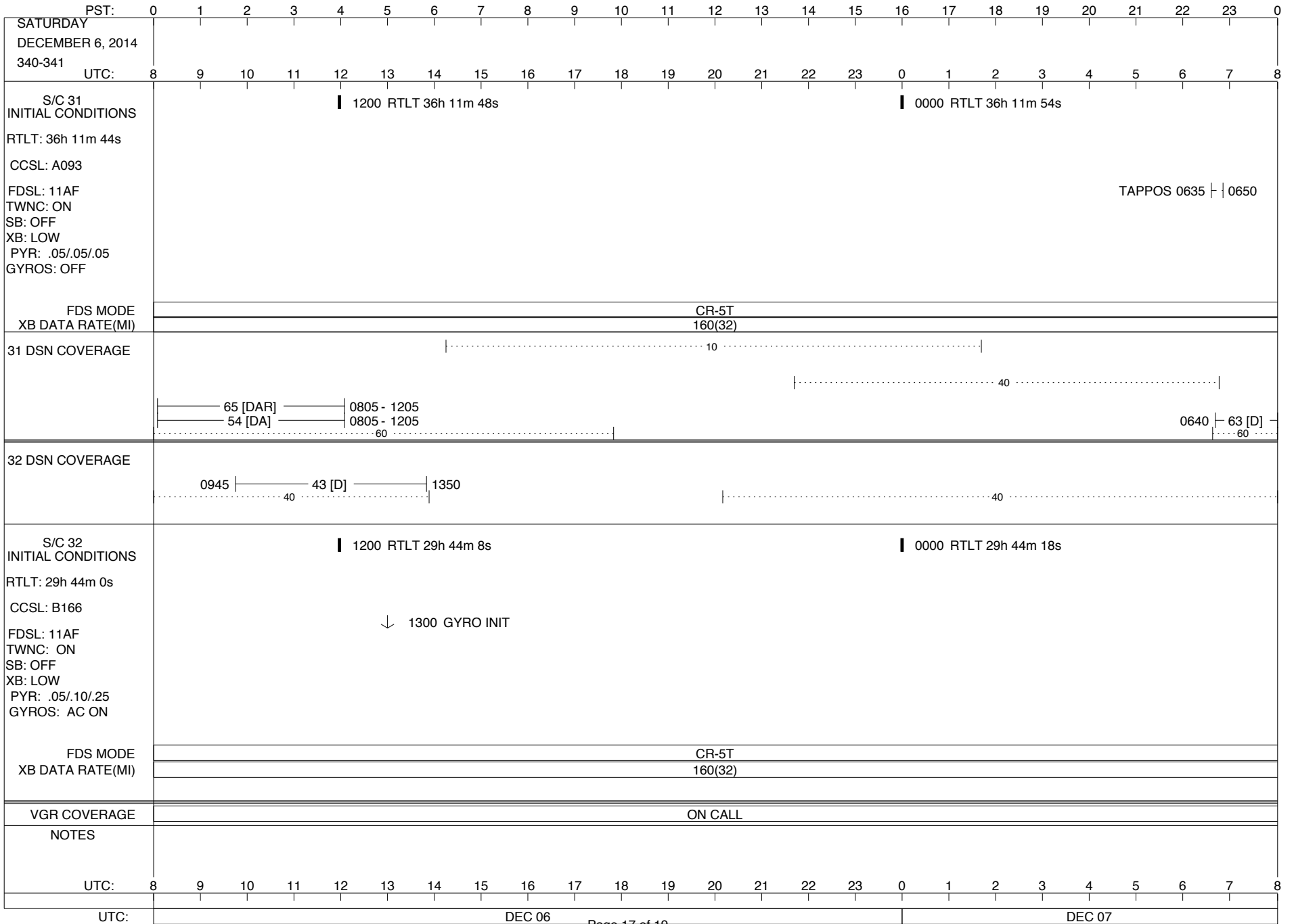
ISSUE DATE: 11/20/14 10:34



ISSUE DATE: 11/20/14 10:34



ISSUE DATE: 11/20/14 10:34



ISSUE DATE: 11/20/14 10:34

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 7, 2014 341-342																										
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 36h 11m 58s												0000 RTLT 36h 12m 2s													
RTLT: 36h 11m 54s																										
CCSL: A093																										
FDSL: 11AF																										
TWNC: ON																										
SB: OFF																										
XB: LOW																										
PYR: .05/.05/.05																										
GYROS: OFF																										
	0936 0938 PWS/RH 0948 - 1018 TAPPOS																									
	↓ 0936 GS-4B 0938																									
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
31 DSN COVERAGE	<p>.....10.....</p> <p>.....40.....</p> <p>63 [D] 09000635 63 [D] </p> <p>.....60.....</p>																									
32 DSN COVERAGE	<p>.....1015 43 [D] 1350.....</p> <p>.....40.....2345 45 [D] 0350.....</p> <p>.....40.....</p>																									
S/C 32 INITIAL CONDITIONS	1200 RTLT 29h 44m 26s												0000 RTLT 29h 44m 34s													
RTLT: 29h 44m 18s																										
CCSL: B166																										
FDSL: 11AF																										
TWNC: ON																										
SB: OFF																										
XB: LOW																										
PYR: .05/.10/.25																										
GYROS: AC ON																										
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
VGR COVERAGE	ON CALL																									
NOTES	[1] S/C 31=GS-4B @ 0936 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 07													DEC 08												

ISSUE DATE: 11/20/14 10:34

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 8, 2014 342-343																											
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: 36h 12m 2s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.05/.05 GYROS: OFF	<div style="text-align: center;"> <p>█ 1200 RTLT 36h 12m 8s</p> </div>																										
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)													
31 DSN COVERAGE	<div style="text-align: center;"> <p>63 [D] 1035</p> <p>..... 60</p> </div>																										
32 DSN COVERAGE	<div style="text-align: center;"> <p>1125 43 [D] 1340</p> <p>..... 40</p> </div>																										
S/C 32 INITIAL CONDITIONS RTLT: 29h 44m 34s CCSL: B166 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: AC ON	<div style="text-align: center;"> <p>█ 1200 RTLT 29h 44m 42s</p> <p>↓ 1300 GYRO INIT</p> </div>																										
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		
UTC:	DEC 08													DEC 09													