

VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: November 25, 2014

For the Period: 11/27/14 to 12/15/14 (14-331 – 14-349)

DSN OPSCHIEF (1) 230-102

DSOT (1) 230-102

*Zsarina.Bulchand@jpl.nasa.gov
 *gdyke@airmail.ftops.jpl.nasa.gov
 *John.M.Grant@jpl.nasa.gov
 *dmcclena@airmail.ftops.jpl.nasa.gov
 *pquach@airmail.ftops.jpl.nasa.gov
 *mrobles@airmail.ftops.jpl.nasa.gov
 *rwilliam@airmail.ftops.jpl.nasa.gov

OTHER

* KMassey@jgld.gdscc.nasa.gov
 * Belinda.Arroyo@jpl.nasa.gov
 *DL-DSSN-MPSETA@dsn.nasa.gov

SCIENCE

CRS *bryant@mail630.gsfc.nasa.gov
 LECP *r.decker@jhuapl.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

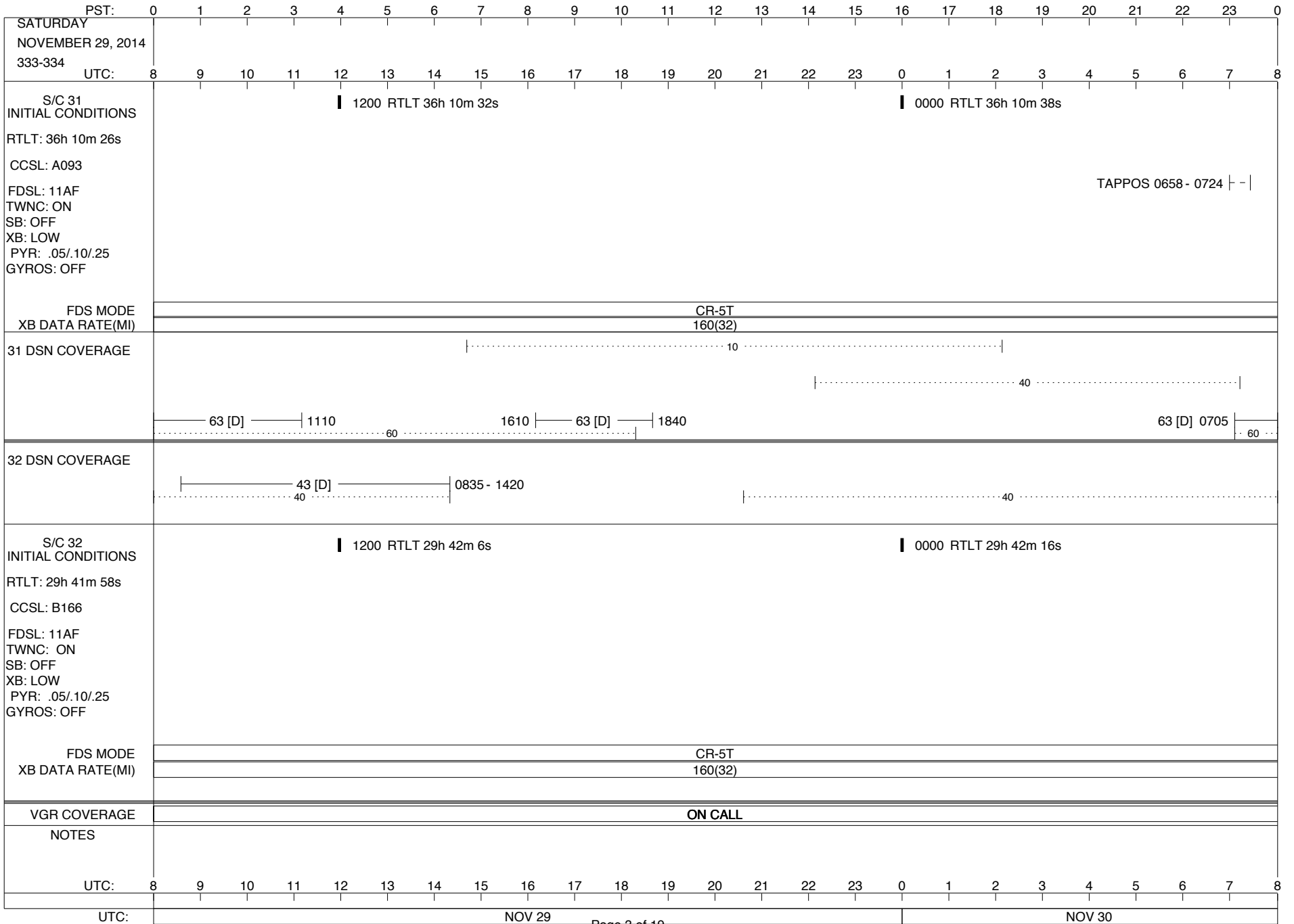
ISSUE DATE: 12/01/14 12:47

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/.10/.25 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: 12/01/14 12:47

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 RTLT: 36h 10m 14s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 36h 10m 20s												0000 RTLT 36h 10m 26s													
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)													
31 DSN COVERAGE	1445 |----- 14 [D] -----| 1845												10 .....| ..... 40 .....|													
	..... 60 .....|												63 [D] 0710 |..... 60 ..												
32 DSN COVERAGE	1025 |----- 43 [D] -----| 1425												40 .....| ..... 40 .....|													
S/C 32 INITIAL CONDITIONS RTLT: 29h 41m 40s CCSL: B166 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 29h 41m 48s												0000 RTLT 29h 41m 58s													
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: 12/01/14 12:47



ISSUE DATE: 12/01/14 12:47

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 30, 2014 334-335																									
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 10m 38s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 36h 10m 44s												0000 RTLT 36h 10m 50s												
	1000 | 1001 PWS/RH 1012 | 1024 TAPPOS												U/L 0220 | - | - - - - TLC (SHORT-FORM) - - - -												
	↓ 1000 GS-4B 1001																								
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	1440 |----- 14 [D] -----| 1840												0135 |----- 43 [T] -----| 0520												
	|----- 0855 63 [D] -----|												|----- 60 -----|												
32 DSN COVERAGE	1015 |----- 43 [D] -----| 1415												|----- 40 -----|												
S/C 32 INITIAL CONDITIONS RTLT: 29h 42m 16s CCSL: B166 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 29h 42m 24s												0000 RTLT 29h 42m 34s												
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
VGR COVERAGE													ON CALL												
NOTES	[1] S/C 31=GS-4B @ 1000 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 30												DEC 01												

ISSUE DATE: 12/01/14 12:47

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 1, 2014 335-336																												
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 50s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	█ 1200 RTLTL 36h 10m 56s												█ 0000 RTLTL 36h 11m 0s															
----- TLC (SHORT-FORM) -----																												
FDS MODE															CR-5T													
XB DATA RATE(MI)															160(32)													
31 DSN COVERAGE	|.....| 10 .....														|.....| 40													
	.....| 60 .....														|.....| 60													
32 DSN COVERAGE	1010 |-----| 43 [D] -----| 1410														|.....| 40													
	.....| 40																											
S/C 32 INITIAL CONDITIONS RTLTL: 29h 42m 34s CCSL: B166 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	█ 1200 RTLTL 29h 42m 42s												█ 0000 RTLTL 29h 42m 52s															
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:	DEC 01														DEC 02													

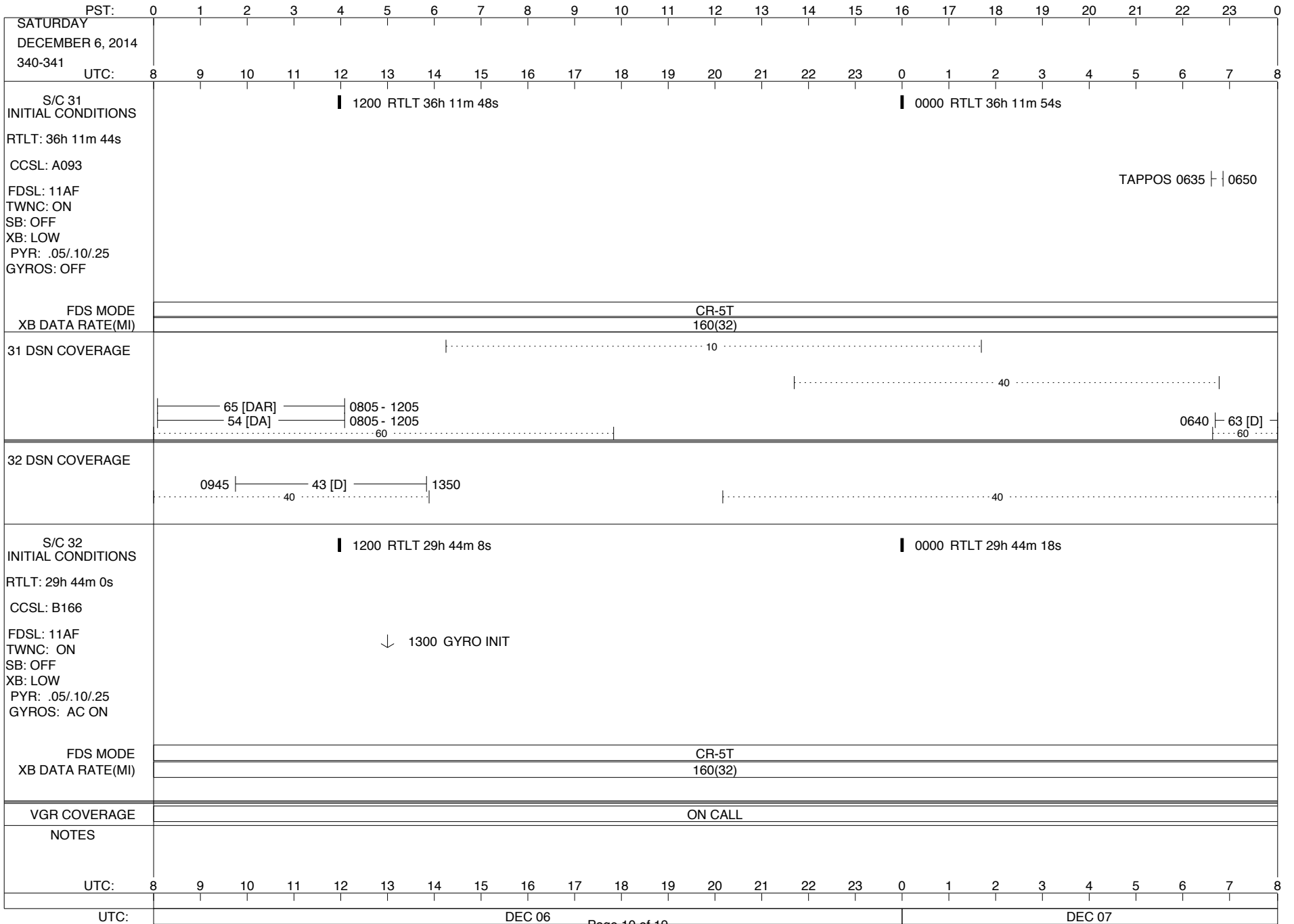
ISSUE DATE: 12/01/14 12:47

TUESDAY DECEMBER 2, 2014 336-337		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																							
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 11m 0s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLTL 36h 11m 6s												0000 RTLTL 36h 11m 12s											
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)												CR-5T 160(32)											
31 DSN COVERAGE		<p>1445 |----- 14 -----| 1830</p> <p>..... 10</p> <p>..... 40</p> <p>..... 60</p> <p>..... 60</p>																							
32 DSN COVERAGE		<p>|----- 43 [B] -----| 0840 - 1410</p> <p>..... 40</p> <p>..... 40</p>																							
S/C 32 INITIAL CONDITIONS RTLTL: 29h 42m 52s CCSL: B166 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLTL 29h 43m 0s												0000 RTLTL 29h 43m 10s COMMAND MORATORIUM 0746											
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)																							
VGR COVERAGE		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												DEC 03											

ISSUE DATE: 12/01/14 12:47

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 DECEMBER 4, 2014 338-339																									
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 11m 22s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLTL 36h 11m 28s												0000 RTLTL 36h 11m 34s												
													0335 0336 TAPPOS PWS/RH 0636 0638 TAPPOS 0648 0704												
													0636 GS-4B 0638 ↓												
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 RTLTL: 29h 43m 26s CCSL: B166 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLTL 29h 43m 36s												0000 RTLTL 29h 43m 44s												
	----- COMMAND MORATORIUM ----- 0715 |																								
	↓ 1300 GYROS AC ON ↓ 1300 GYRO INIT ↓ 1309 GYRO FAULT TEST																								
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL						VGR						ON CALL												
NOTES	[1] S/C 31=GS-4B @ 0636 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 04												DEC 05												

ISSUE DATE: 12/01/14 12:47



ISSUE DATE: 12/01/14 12:47

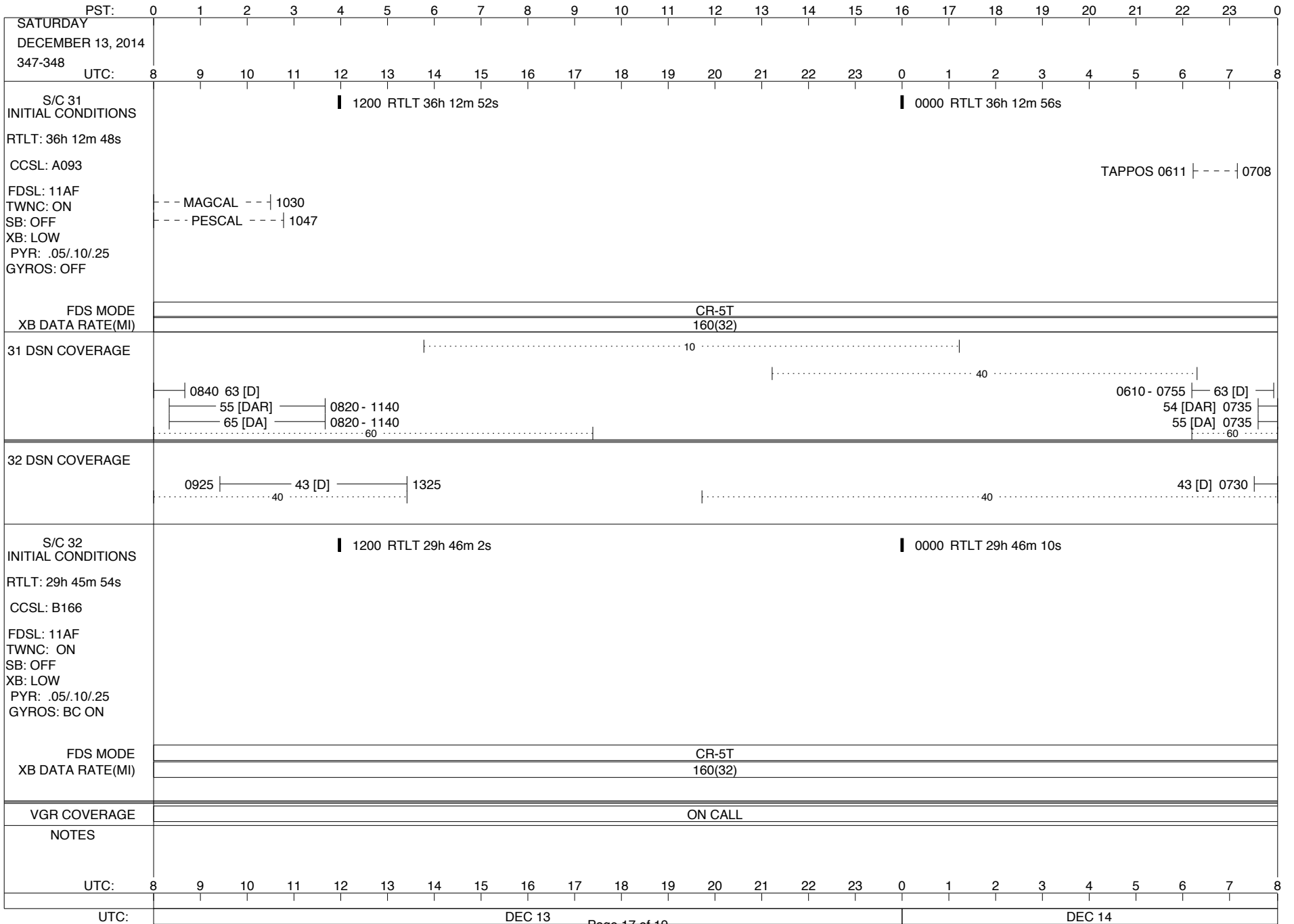
PST:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0
WEDNESDAY DECEMBER 10, 2014 344-345																									
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLT: 36h 12m 22s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	█ 1200 RTLT 36h 12m 26s												█ 0000 RTLT 36h 12m 30s												
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
31 DSN COVERAGE	|-----|												|-----|												
	60												40												
													0625 - 0745 | 63 [D] |												
													65 [DA] 0745												
													55 [DAR] 0745												

													60												
32 DSN COVERAGE	1040 |-----| 43 [D] |-----| 1335												|-----|												
	40												40												
S/C 32 INITIAL CONDITIONS RTLT: 29h 45m 6s CCSL: B166 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: AC ON	█ 1200 RTLT 29h 45m 14s												█ 0000 RTLT 29h 45m 22s												
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
VGR COVERAGE													ON CALL												
NOTES													----- COMMAND MORATORIUM -----												
	↓ 1301 GYRO INIT																								
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: 12/01/14 12:47

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 DECEMBER 11, 2014 345-346																																			
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 12m 30s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLTL 36h 12m 34s														0000 RTLTL 36h 12m 40s																				
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 RTLTL: 29h 45m 22s CCSL: B166 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: AC ON	1200 RTLTL 29h 45m 30s														0000 RTLTL 29h 45m 38s																				
FDS MODE	CR-5T														CR-5T																				
XB DATA RATE(MI)	160(32)														160(32)																				
VGR COVERAGE	ON CALL							VGR							ON CALL							VGR							ON CALL						
NOTES	[1] S/C 31=GS-4B @ 0613 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 11														DEC 12																				

ISSUE DATE: 12/01/14 12:47



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 13 Page 17 of 19 DEC 14

ISSUE DATE: 12/01/14 12:47

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 14, 2014 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 RTLTL: 36h 12m 56s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 36h 13m 0s												0000 RTLTL 36h 13m 4s												
	0914 | 0915 PWS/RH 0925 |-----| 1036 TAPPOS																								
	↓ 0913 GS-4B 0915																								
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	.....|.....10.....|.....												.....|.....40.....|.....												
	— 54 [DAR] — | 1010 — 55 [DA] — | 1010												0610 |— 63 [D] —60.....|.....60.....												
32 DSN COVERAGE	.....|.....40.....|.....43 [D].....|.....1320												.....|.....40.....|.....												
S/C 32 INITIAL CONDITIONS RTLTL: 29h 46m 10s CCSL: B166 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: BC ON	1200 RTLTL 29h 46m 16s												0000 RTLTL 29h 46m 24s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE													ON CALL												
NOTES	[1] S/C 31=GS-4B @ 0913 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 14												DEC 15												

ISSUE DATE: 12/01/14 12:47

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 15, 2014 349-350																									
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 13m 4s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 36h 13m 8s																								
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
31 DSN COVERAGE																									
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS RTLT: 29h 46m 24s CCSL: B166 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: BC ON	█ 1200 RTLT 29h 46m 32s																								
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:	DEC 15												DEC 16												