

VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: November 28, 2012

For the Period: 11/29/12 to 12/17/12 (12-334 – 12-352)

DSN OPSCHIEF (1) 230-102

SCIENCE

FLIGHT TEAM (14) 600-100

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

CRS *bryant@mail630.gsfc.nasa.gov
 LECP *r.decker@jhupl.edu
 UVS *holberg@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

Dodd, S.
 Hall, J.
 Howard, S. (3)
 Ludwig, R. (2)
 Matsumoto, S.
 Medina, E.
 Peralta, F.
 Weeks, T.
 Wong, R.
 Yang, L
 Zottarelli, L.
 *odivers1@san.rr.com

OTHER

* KMassej@jgld.gdscc.nasa.gov
 * Belinda.Arroyo@jpl.nasa.gov
 * !DL-DSN-MPSETA@dsn.nasa.gov

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 = 7-Point 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: 11/28/12 21:02

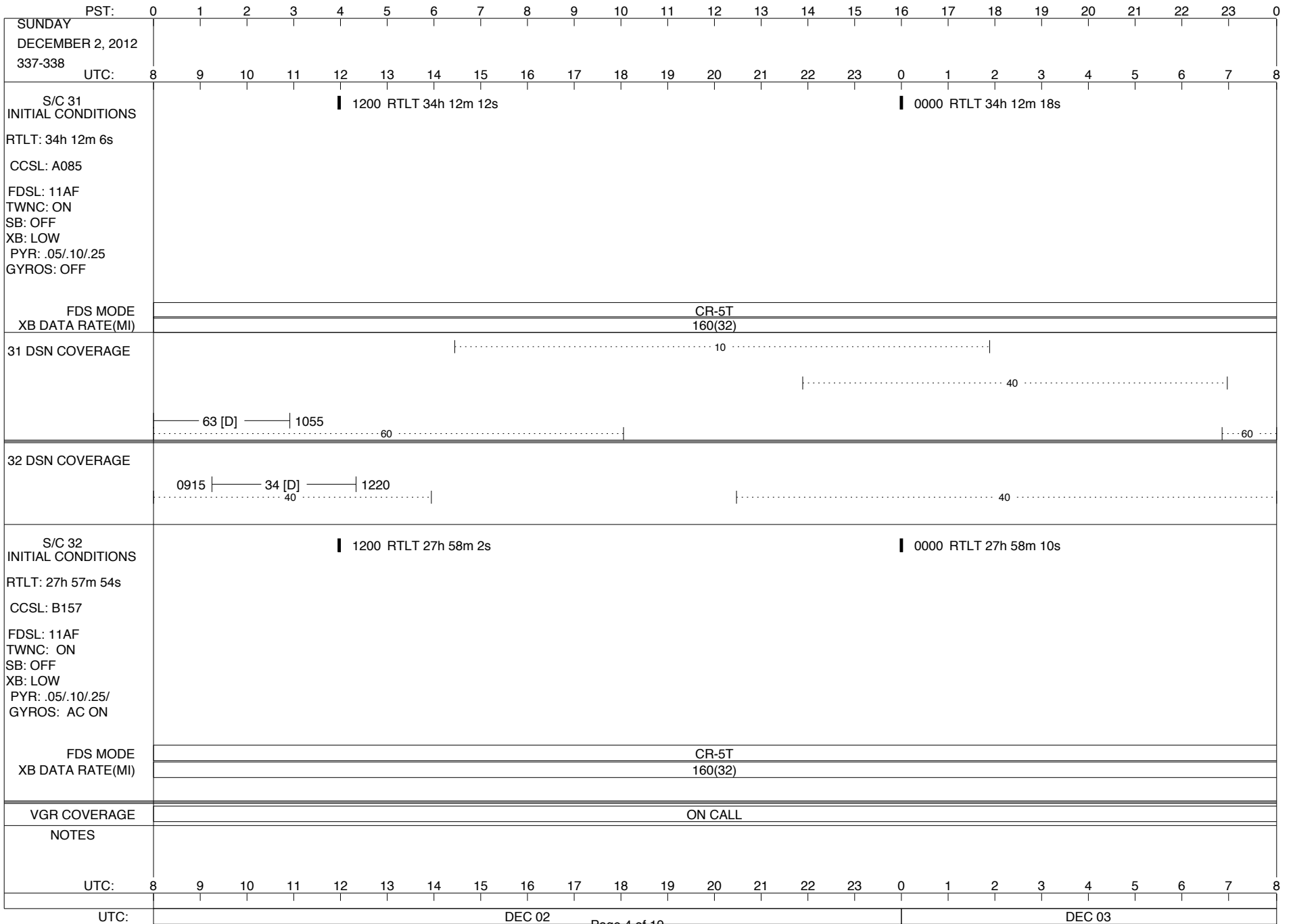
PST:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0
THURSDAY NOVEMBER 29, 2012 334-335																									
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLT: 34h 11m 32s CCSL: A085 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF					█ 1200																█ 0000				
FDS MODE XB DATA RATE(MI)																									
31 DSN COVERAGE																									
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS RTLT: 27h 57m 0s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF					█ 1200																█ 0000				
FDS MODE XB DATA RATE(MI)																									
VGR COVERAGE																									
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:																									

ISSUE DATE: 11/28/12 21:02

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 30, 2012 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 RTLT: 34h 11m 44s CCSL: A085 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 34h 11m 50s												0000 RTLT 34h 11m 56s													
													0358 0359 TAPPOS PWS/RH 0700 0700													
													0700 GS-4B 0700 ↓													
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
31 DSN COVERAGE	----- 63 [D] ----- 1105												----- 40 -----													
	----- 60 -----												----- 60 -----													
32 DSN COVERAGE	1110 34 [D] 1225												----- 40 -----													
S/C 32 INITIAL CONDITIONS RTLT: 27h 57m 18s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: AC ON	1200 RTLT 27h 57m 26s												0000 RTLT 27h 57m 36s													
	----- COMMAND MORATORIUM -----												2008													
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
VGR COVERAGE	ON CALL												ON CALL													
NOTES	[1] S/C 31=GS-4B @ 0700 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													

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 DECEMBER 1, 2012 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: 34h 11m 56s																										
CCSL: A085																										
FDSL: 11AF																										
TWNC: ON																										
SB: OFF																										
XB: LOW																										
PYR: .05/.10/.25																										
GYROS: OFF																										
FDS MODE																										
XB DATA RATE(MI)																										
31 DSN COVERAGE																										
32 DSN COVERAGE																										
S/C 32 INITIAL CONDITIONS																										
RTLT: 27h 57m 36s																										
CCSL: B157																										
FDSL: 11AF																										
TWNC: ON																										
SB: OFF																										
XB: LOW																										
PYR: .05/.10/.25/																										
GYROS: AC ON																										
FDS MODE																										
XB DATA RATE(MI)																										
VGR COVERAGE																										
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: 11/28/12 21:02

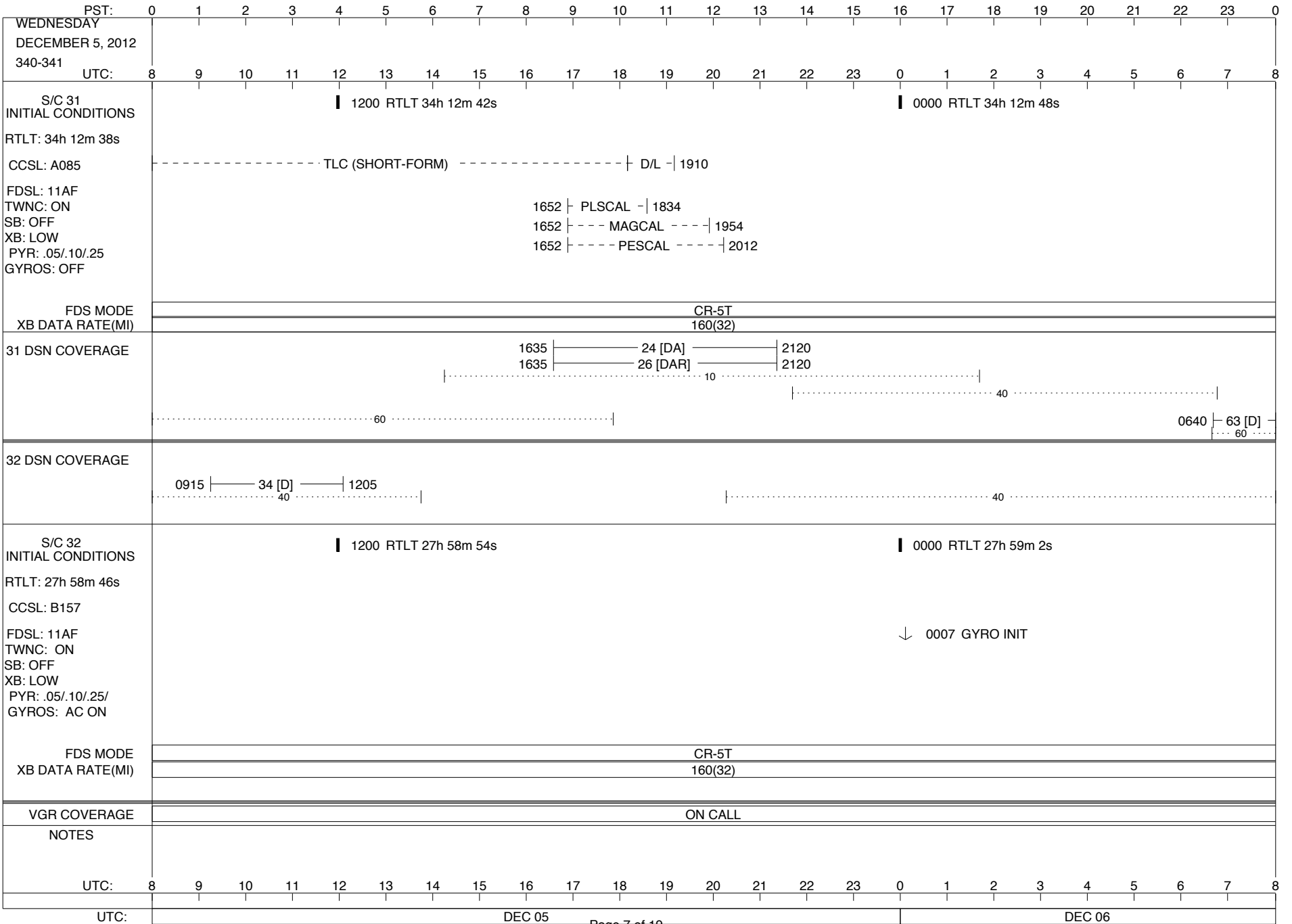


PST:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	
MONDAY																										
DECEMBER 3, 2012																										
338-339																										
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	
S/C 31 INITIAL CONDITIONS	1200 RTLT 34h 12m 22s												0000 RTLT 34h 12m 28s													
RTLT: 34h 12m 18s																										
CCSL: A085																										
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													0030 14 [D] 0145													
												40.....													
	1530 63 [D] 1820												0700 63 [T]													
60.....											60.....													
32 DSN COVERAGE	1110 34 [D] 1215																									
40.....											40.....													
S/C 32 INITIAL CONDITIONS	1200 RTLT 27h 58m 20s												0000 RTLT 27h 58m 28s													
RTLT: 27h 58m 10s																										
CCSL: B157																										
FDSL: 11AF																										
TWNC: ON																										
SB: OFF																										
XB: LOW																										
PYR: .05/.10/.25/																										
GYROS: AC ON																		↓ 0007 GYRO INIT								
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 03																DEC 04									

ISSUE DATE: 11/28/12 21:02

TUESDAY DECEMBER 4, 2012 339-340		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: 34h 12m 28s CCSL: A085 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="display: flex; justify-content: space-between;"> <div>█ 1200 RTLTL 34h 12m 32s</div> <div>█ 0000 RTLTL 34h 12m 38s</div> </div> <p style="text-align: center;">----- TLC (SHORT-FORM) -----</p> <p style="text-align: right;">0036 █ 0037 PWS/RH</p> <p style="text-align: right;">↓ 0036 GS-4B 0037</p>	
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)	CR-5T 160(32)
31 DSN COVERAGE	<p style="text-align: center;"> ----- 10 ----- </p> <p style="text-align: right;"> ----- 40 ----- </p> <p>63 [T] ----- 1045 ----- </p> <p style="text-align: center;">----- 60 ----- </p>	
32 DSN COVERAGE	<p style="text-align: center;">1105 34 [D] 1210</p> <p style="text-align: center;">----- 40 ----- </p> <p style="text-align: right;"> ----- 40 ----- </p>	
S/C 32 INITIAL CONDITIONS RTLTL: 27h 58m 28s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: AC ON	<div style="display: flex; justify-content: space-between;"> <div>█ 1200 RTLTL 27h 58m 36s</div> <div>█ 0000 RTLTL 27h 58m 46s</div> </div>	
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)	
VGR COVERAGE	ON CALL	
NOTES	[1] S/C 31=GS-4B @ 0036 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: 11/28/12 21:02

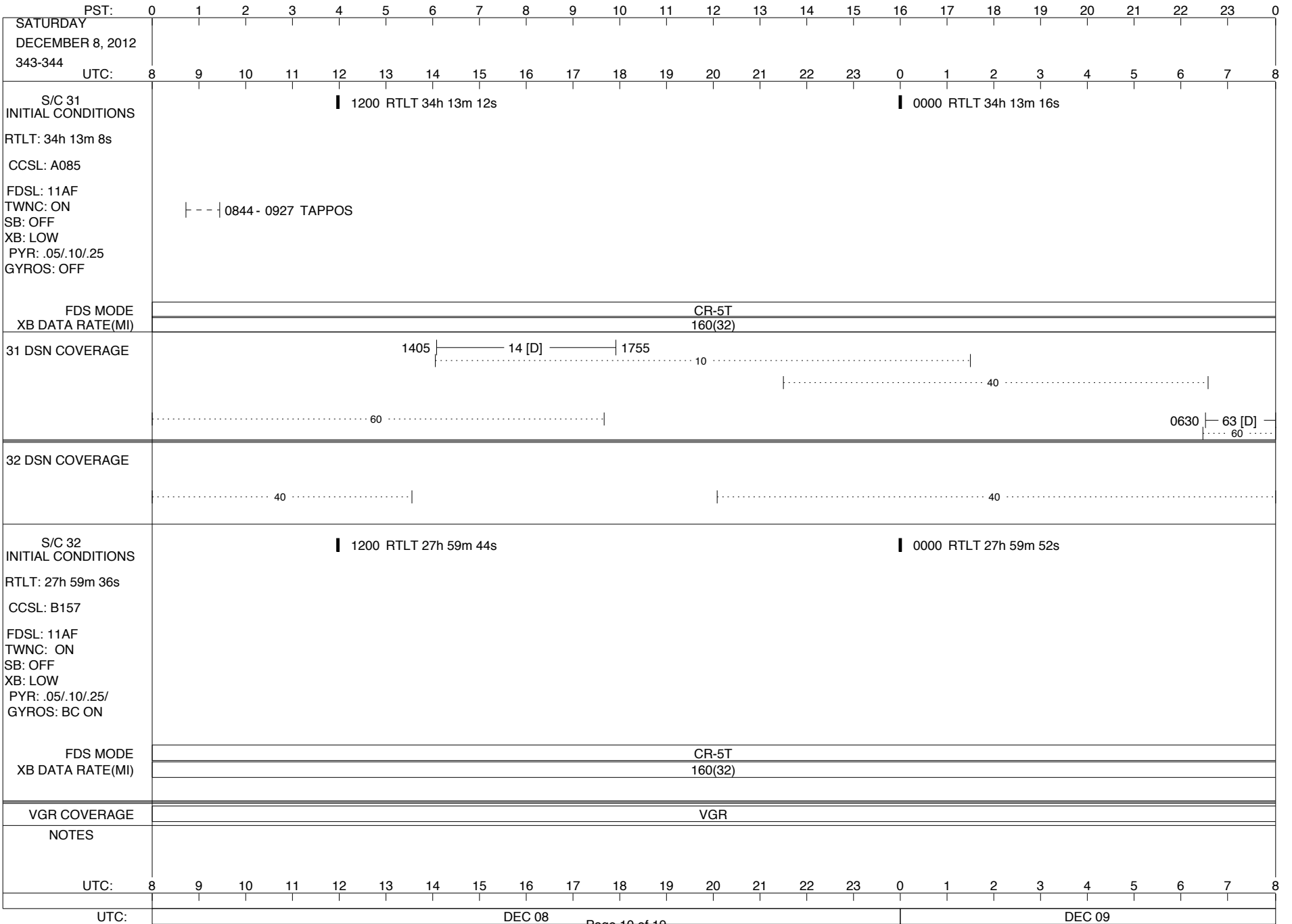


PST:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0			
THURSDAY DECEMBER 6, 2012 341-342																												
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8			
S/C 31 INITIAL CONDITIONS RTLT: 34h 12m 48s CCSL: A085 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 34h 12m 52s														█ 0000 RTLT 34h 12m 58s													
															↓ 1906 BAY 1 HTR OFF ↓ 1910 X/B HI POWER 1936 1956 AACS MRO 1956 2012 CCS MRO 2012 2025 CCS MRO ↓ 2045 X/B LOW POWER ↓ 2049 BAY 1 HTR ON ↓ 1921 EH-12 2024													
FDS MODE	CR-5T														EH-12				CR-5T									
XB DATA RATE(MI)	160(32)																		160(32)									
31 DSN COVERAGE																												
32 DSN COVERAGE																												
S/C 32 INITIAL CONDITIONS RTLT: 27h 59m 2s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: AC ON	█ 1200 RTLT 27h 59m 10s														█ 0000 RTLT 27h 59m 18s													
															↓ 0007 GYRO SWAP BC ON ↓ 0007 GYRO INIT ↓ 0017 GYRO FAULT TEST													
FDS MODE	CR-5T																											
XB DATA RATE(MI)	160(32)																											
VGR COVERAGE	ON CALL														VGR				ON CALL				VGR					
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 06																		DEC 07									

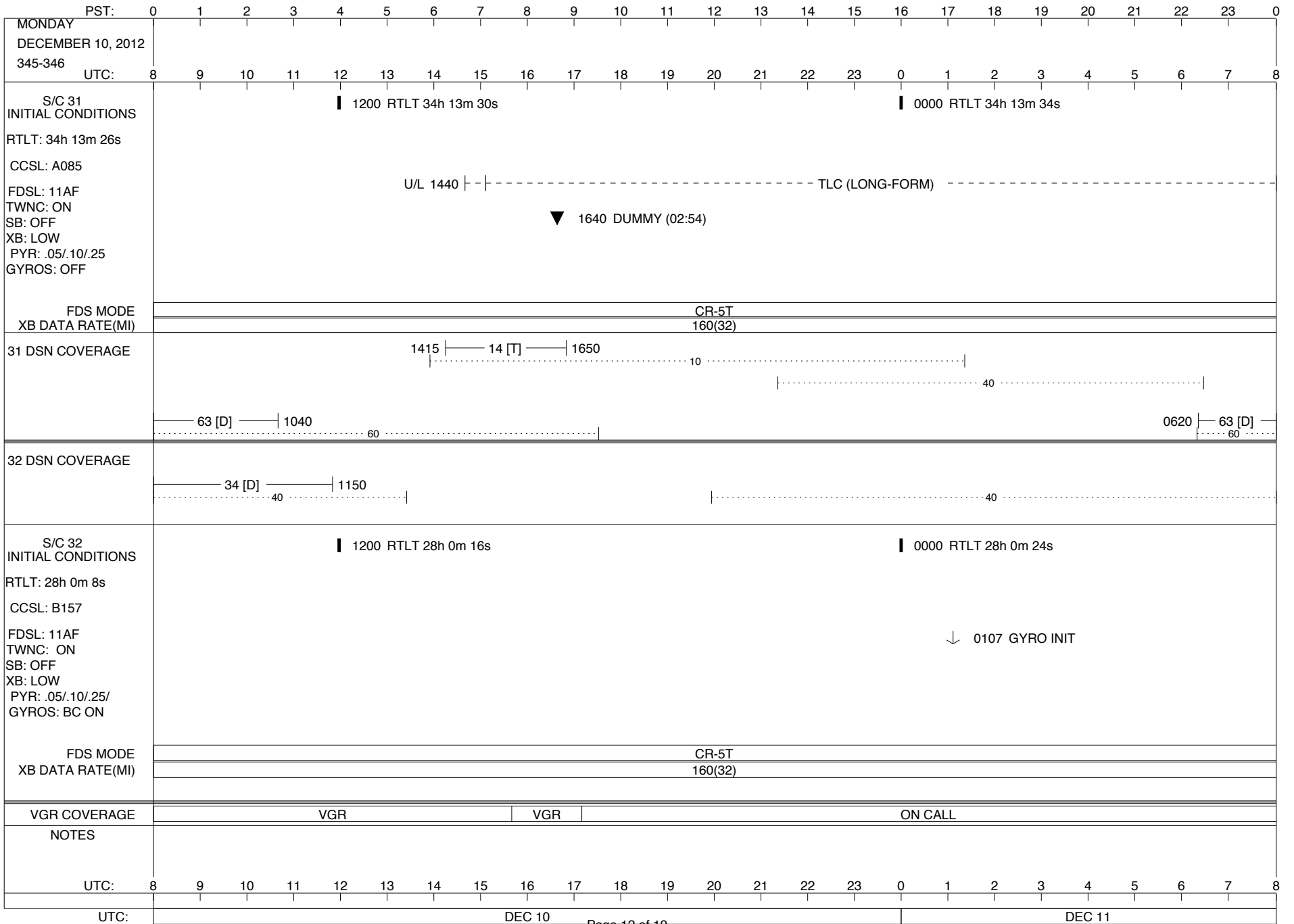
ISSUE DATE: 11/28/12 21:02

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 DECEMBER 7, 2012 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 RTLTL: 34h 12m 58s CCSL: A085 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 34h 13m 2s												0000 RTLTL 34h 13m 8s												
																			0334 - 0403 TAPPOS			PWS/RH 0636 0637			
																								0636 GS-4B 0637 ↓	
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: 27h 59m 18s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: BC ON	1200 RTLTL 27h 59m 28s												0000 RTLTL 27h 59m 36s												
FDS MODE											CR-5T														
XB DATA RATE(MI)											160(32)														
VGR COVERAGE	VGR																								
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 07												DEC 08												

ISSUE DATE: 11/28/12 21:02



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 9, 2012 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 RTLTL: 34h 13m 16s CCSL: A085 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 34h 13m 22s														█ 0000 RTLTL 34h 13m 26s													
FDS MODE															CR-5T													
XB DATA RATE(MI)															160(32)													
31 DSN COVERAGE 10 40													
	63 [D] 1030														0625 63 [D]													
	60														60													
32 DSN COVERAGE	1045 34 [D] 1150														34 [D] 0750													
	40														40													
S/C 32 INITIAL CONDITIONS RTLTL: 27h 59m 52s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: BC ON	█ 1200 RTLTL 28h 0m 0s														█ 0000 RTLTL 28h 0m 8s													
FDS MODE															CR-5T													
XB DATA RATE(MI)															160(32)													
VGR COVERAGE															VGR													
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 09														DEC 10													



ISSUE DATE: 11/28/12 21:02

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 11, 2012 346-347																												
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: 34h 13m 34s CCSL: A085 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 34h 13m 38s														0000 RTLTL 34h 13m 42s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)														CR-5T 160(32)													
31 DSN COVERAGE	<p>0820 63 [D] 60 2215 14 [D] 0115 40 0615 63 [D] 60</p>																											
32 DSN COVERAGE	<p>45 [D] 40 0830 - 1145 0130 34 [D] 40 0530</p>																											
S/C 32 INITIAL CONDITIONS RTLTL: 28h 0m 24s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: BC ON	1200 RTLTL 28h 0m 32s														0000 RTLTL 28h 0m 40s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)														0140 PLSCAL - 0323 0140 --- MAGCAL --- 0443 0140 --- PESCAL --- 0500													
VGR COVERAGE	ON CALL																											
NOTES	[1] S/C 31=GS-4B @ 0013 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: 11/28/12 21:02

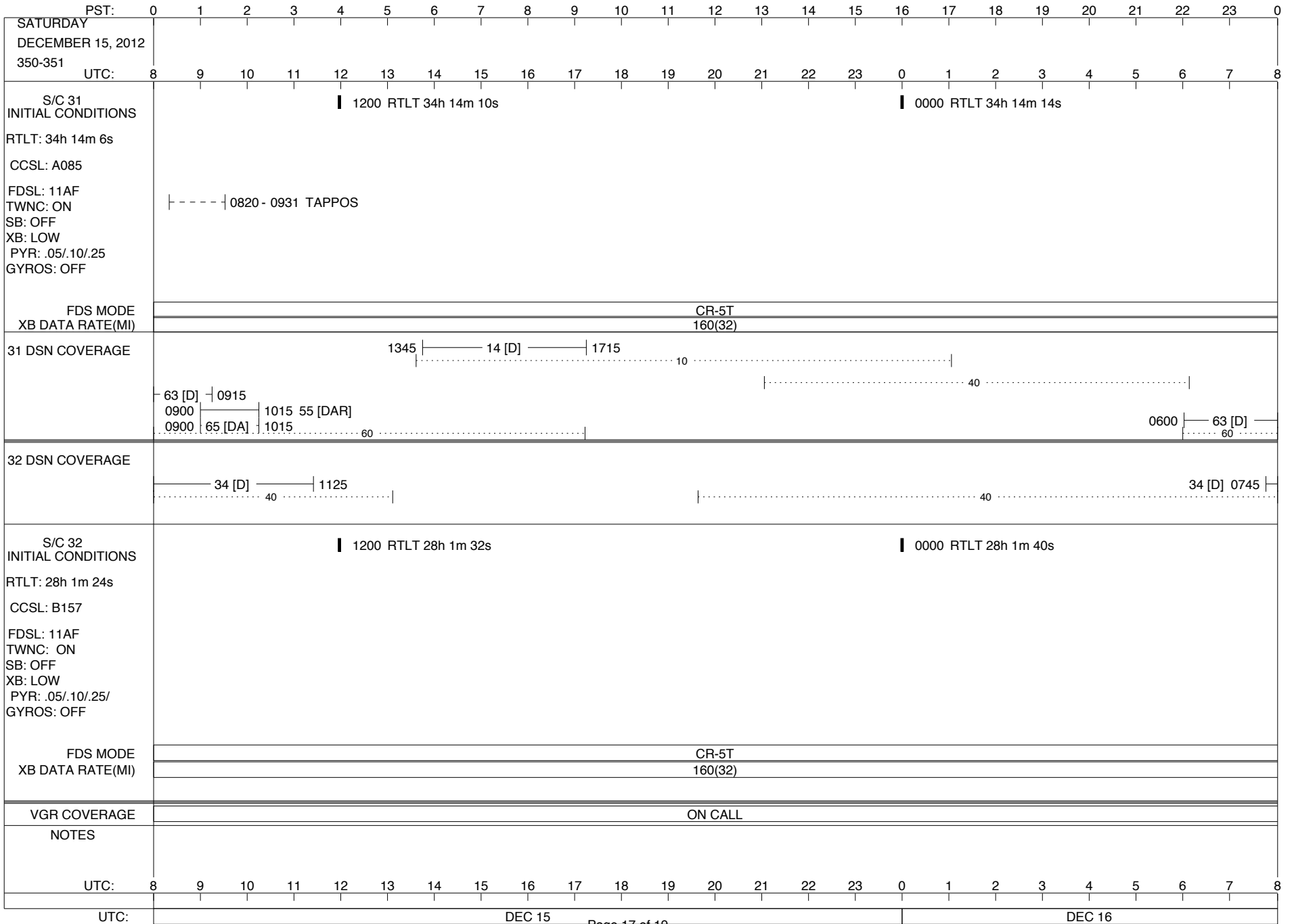
PST:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	
WEDNESDAY DECEMBER 12, 2012 347-348	UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLTL: 34h 13m 42s CCSL: A085 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						1200																				
FDS MODE XB DATA RATE(MI)																										
31 DSN COVERAGE																										
32 DSN COVERAGE																										
S/C 32 INITIAL CONDITIONS RTLTL: 28h 0m 40s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: BC ON						1200																				
FDS MODE XB DATA RATE(MI)																										
VGR COVERAGE																										
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:																										

ISSUE DATE: 11/28/12 21:02

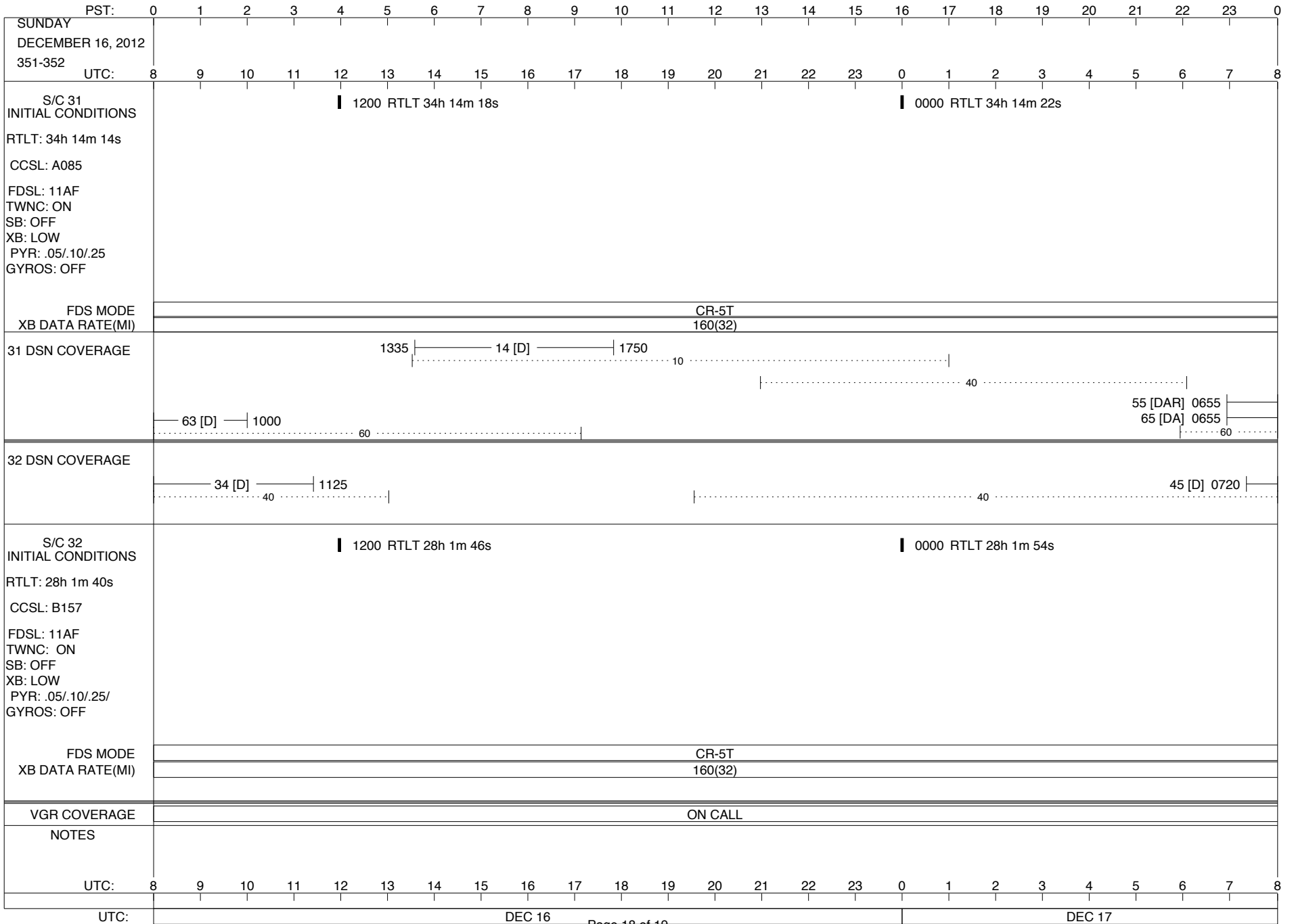
PST:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0
THURSDAY DECEMBER 13, 2012 348-349																									
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLTL: 34h 13m 52s CCSL: A085 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 34h 13m 56s												0000 RTLTL 34h 14m 0s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	1345 14 [D] 1545												10 40 1535 63 [D] 1740 60 0610 63 [D] 60												
32 DSN COVERAGE	40												0220 34 [D] 40												
S/C 32 INITIAL CONDITIONS RTLTL: 28h 0m 54s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: BC ON	1200 RTLTL 28h 1m 2s												0000 RTLTL 28h 1m 10s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE	ON CALL												VGR												
NOTES	[1] S/C 32 - D/L AGC & SNR VARIATIONS EXPECTED DURING MAGROL (0121-0716)																								
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												DEC 14												

ISSUE DATE: 11/28/12 21:02

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 DECEMBER 14, 2012 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: 34h 14m 0s CCSL: A085 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 34h 14m 2s												0000 RTLT 34h 14m 6s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	0845 63 [D]												0605 63 [D]												
32 DSN COVERAGE	0810 34 [D]												34 [D] 0725												
S/C 32 INITIAL CONDITIONS RTLT: 28h 1m 10s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 28h 1m 18s												0000 RTLT 28h 1m 24s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL												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 14												DEC 15												



ISSUE DATE: 11/28/12 21:02



ISSUE DATE: 11/28/12 21:02

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 17, 2012 352-353																											
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: 34h 14m 22s CCSL: A085 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 34h 14m 26s</p> </div>																										
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)													
31 DSN COVERAGE	<div style="text-align: center;"> <p>1330 ----- 14 [D] ----- 1800</p> </div>																										
	<div style="text-align: center;"> <p>0910 55 [DAR] 65 [DA] ----- 60 ----- </p> </div>																										
32 DSN COVERAGE	<div style="text-align: center;"> <p>45 [D] ----- 1120</p> <p>40 ----- </p> </div>																										
S/C 32 INITIAL CONDITIONS RTLT: 28h 1m 54s CCSL: B157 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 28h 2m 2s</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 17													DEC 18													