

VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: December 24, 2013

For the Period: 12/26/13 to 01/13/14 (13-360 – 14-013)

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@jhupl.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

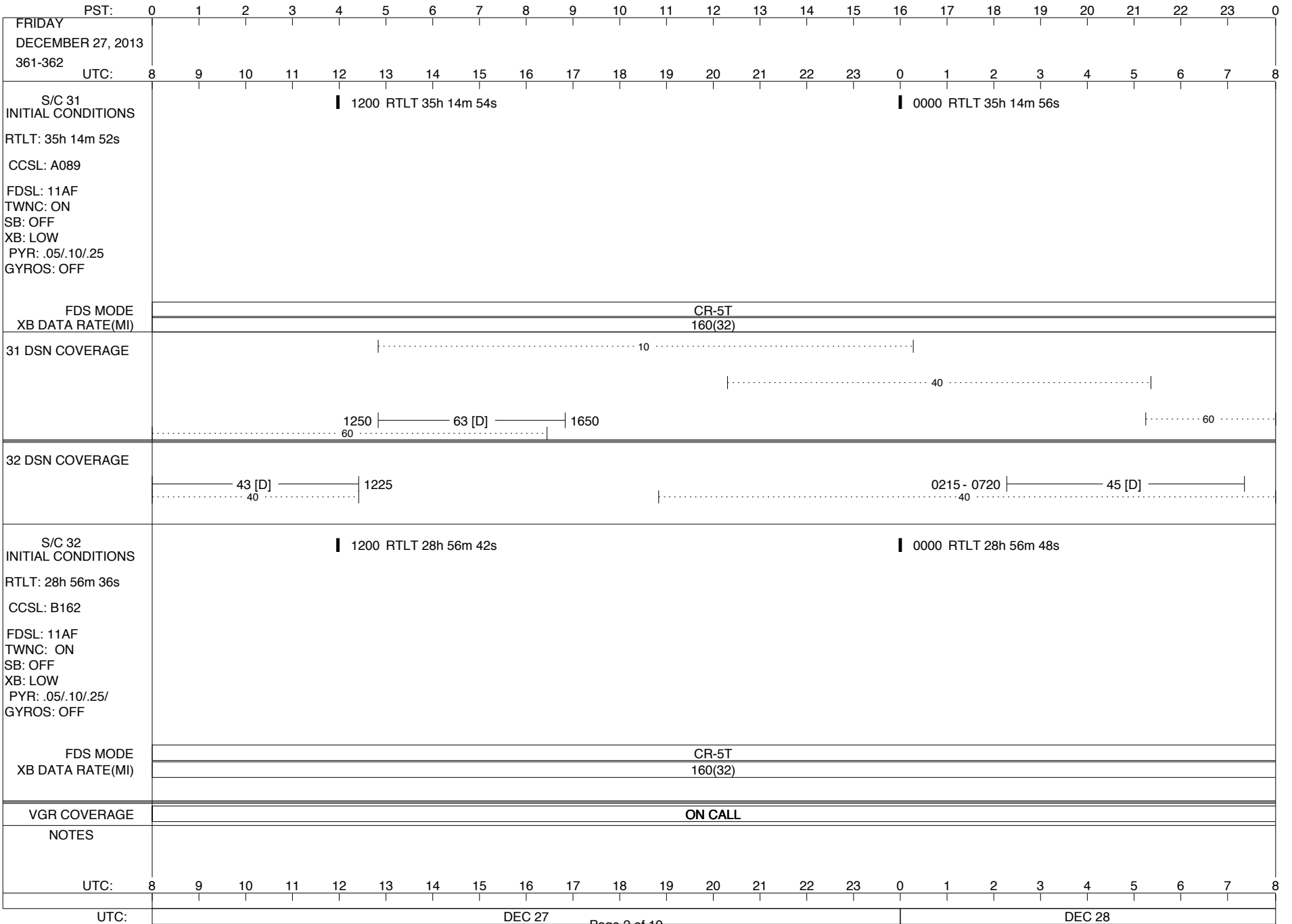
Dodd, S.
 Hall, J.
 Howard, S. (3)
 Ludwig, R. (2)
 Matsumoto, S.
 Medina
 Peralta, F.
 Weeks, T.
 Wong, R.
 Yang, L.
 Zottarelli, L.
 *odivers@san.rr.com

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

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 26, 2013 360-361																									
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: 35h 14m 46s CCSL: A089 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 14m 48s												0000 RTLT 35h 14m 52s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	<p>1415 |----- 14 [D] -----| 1845</p> <p>.....|----- 10 -----|</p> <p>.....|----- 40 -----| 0215 |----- 43 [D] -----| 0515</p> <p>.....|----- 60 -----|</p> <p>.....|----- 60 -----|</p>																								
32 DSN COVERAGE	<p>.....|----- 40 -----|</p> <p>.....|----- 40 -----| 0600 |----- 43 [D] -----|</p>																								
S/C 32 INITIAL CONDITIONS RTLT: 28h 56m 24s CCSL: B162 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 28h 56m 30s												0000 RTLT 28h 56m 36s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL																								
NOTES	<p>[1] S/C 31=GS-4B @ 0545 XB=2.8K(41) NOT RECOVERABLE</p> <p>JPL HOLIDAY!</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 26												DEC 27												

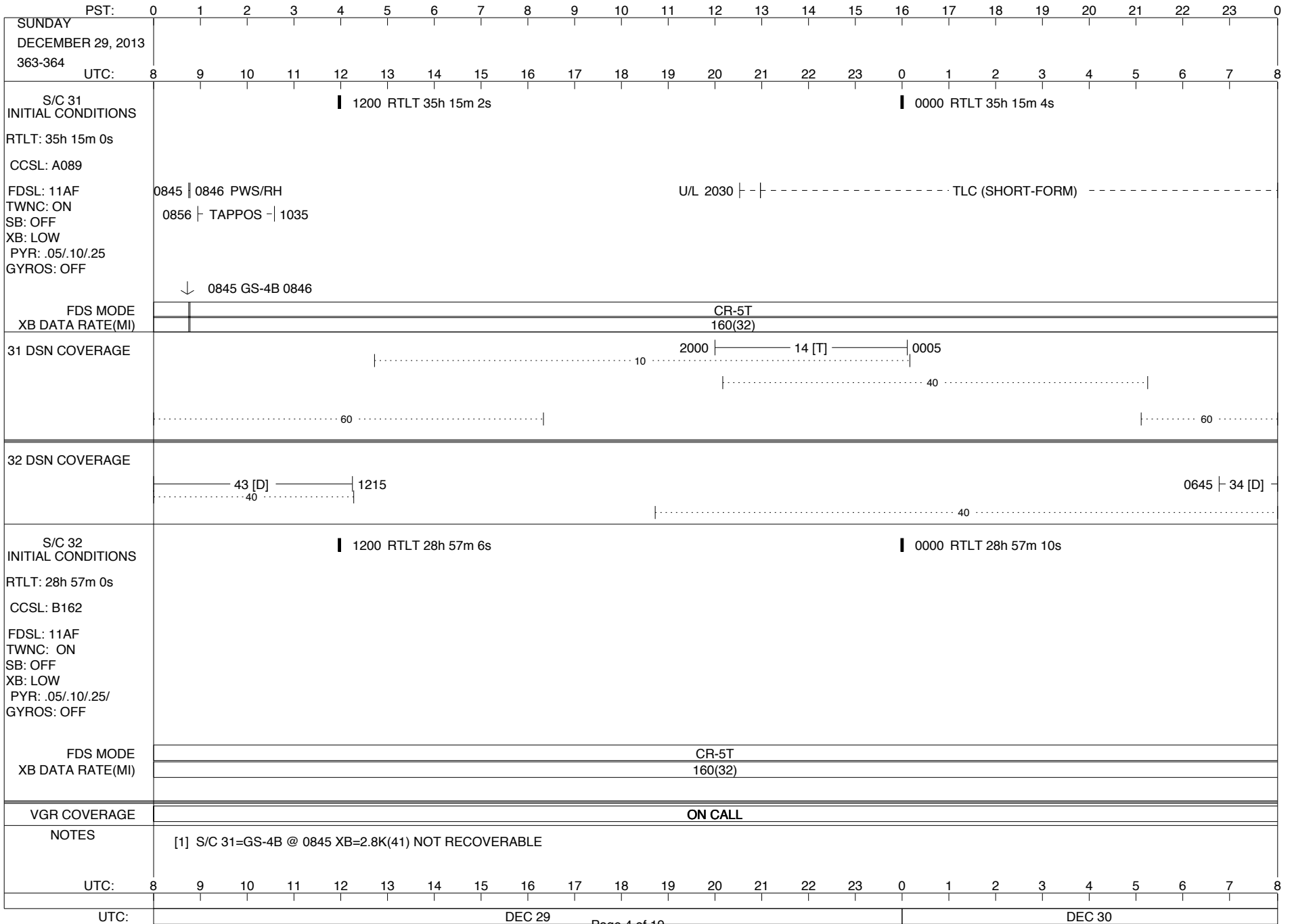
ISSUE DATE: 12/24/13 18:07



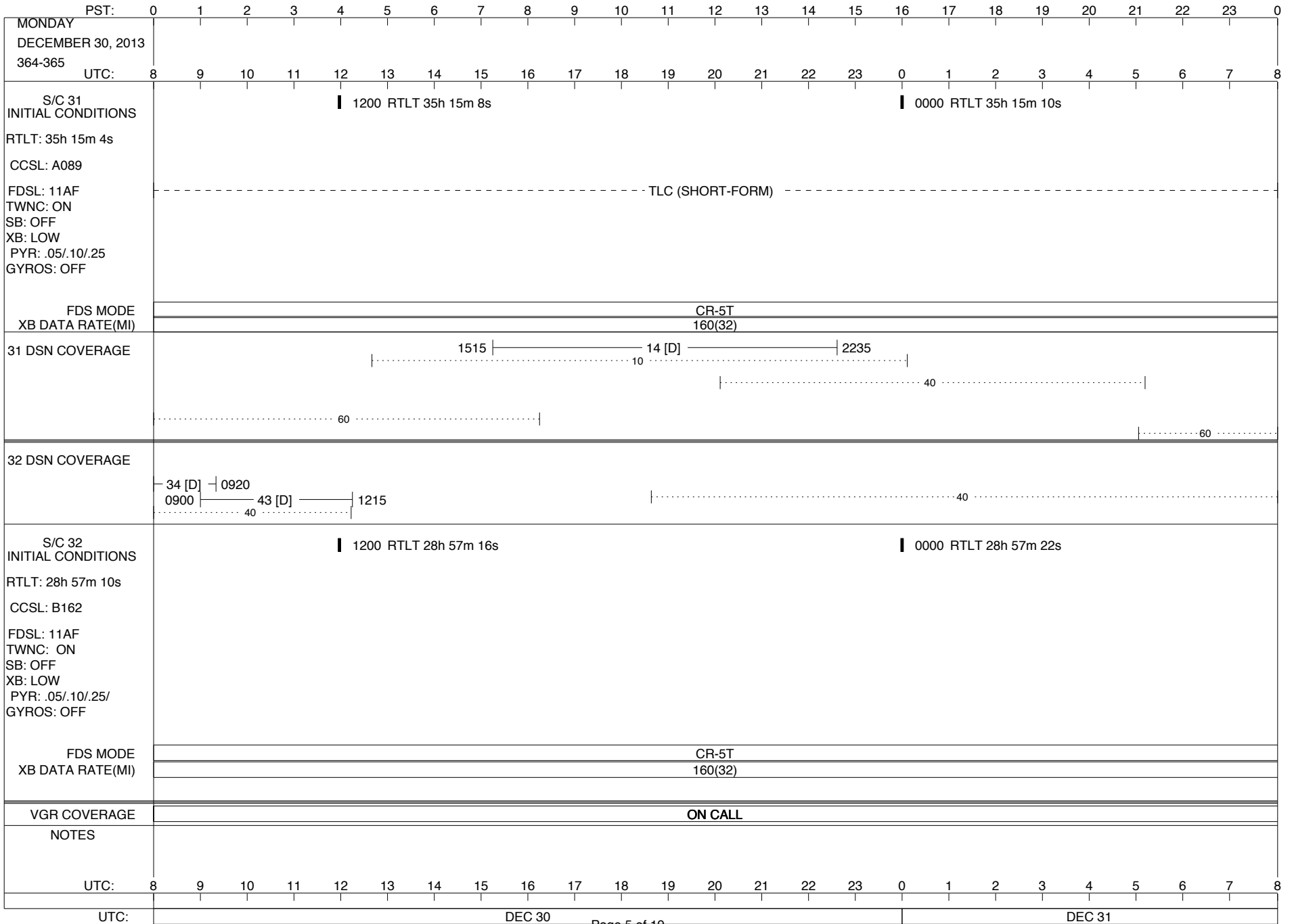
ISSUE DATE: 12/24/13 18:07

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 28, 2013 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: 35h 14m 56s CCSL: A089 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 14m 58s												0000 RTLT 35h 15m 0s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	1725 |-----| 14 [D] |-----| 0010												0010 |-----| 40 |-----| 60												
32 DSN COVERAGE	1005 |-----| 43 [D] |-----| 1220												43 [D] 0755 |-----| 40												
S/C 32 INITIAL CONDITIONS RTLT: 28h 56m 48s CCSL: B162 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 28h 56m 54s												0000 RTLT 28h 57m 0s												
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 28												DEC 29												

ISSUE DATE: 12/24/13 18:07



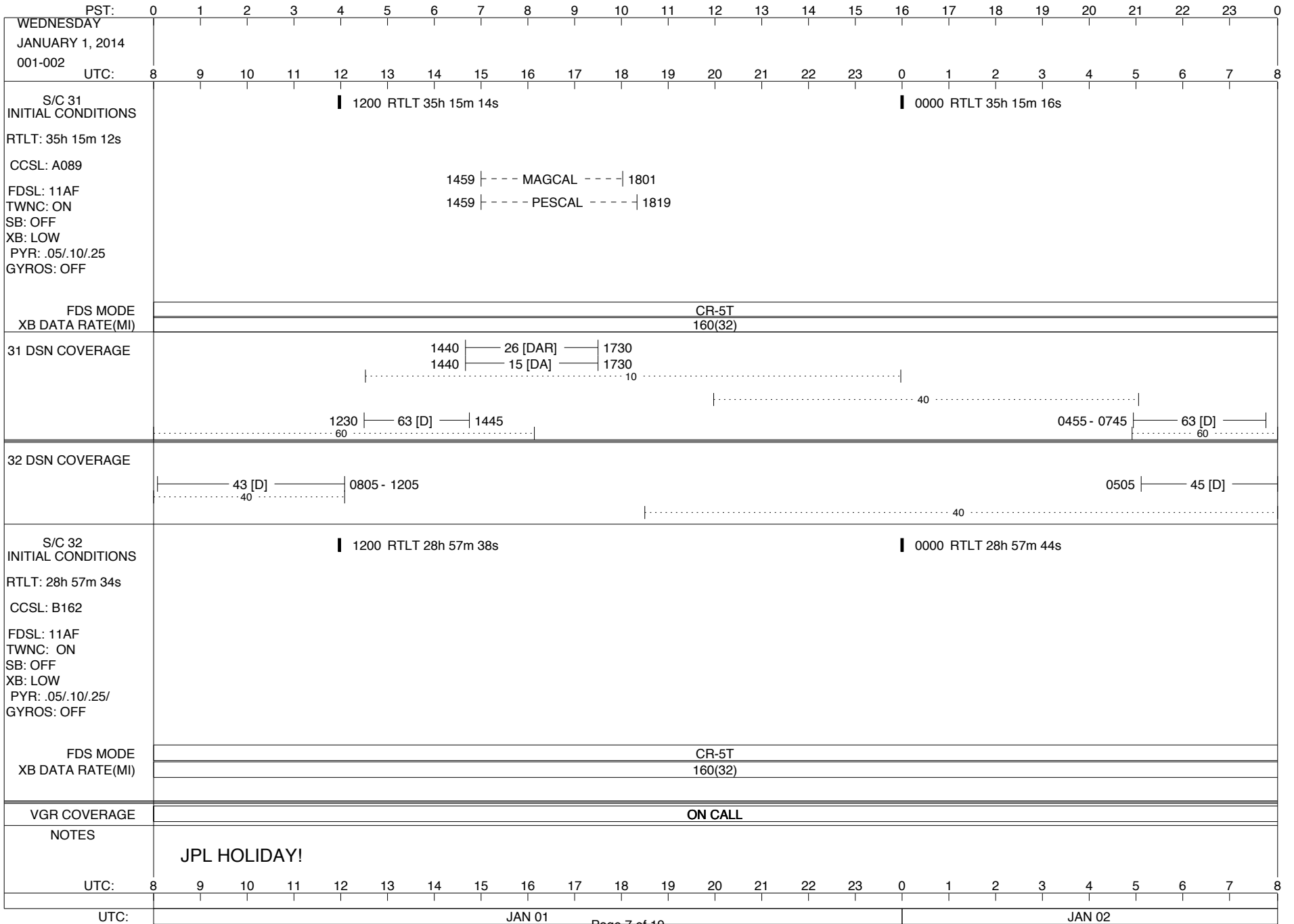
ISSUE DATE: 12/24/13 18:07



ISSUE DATE: 12/24/13 18:07

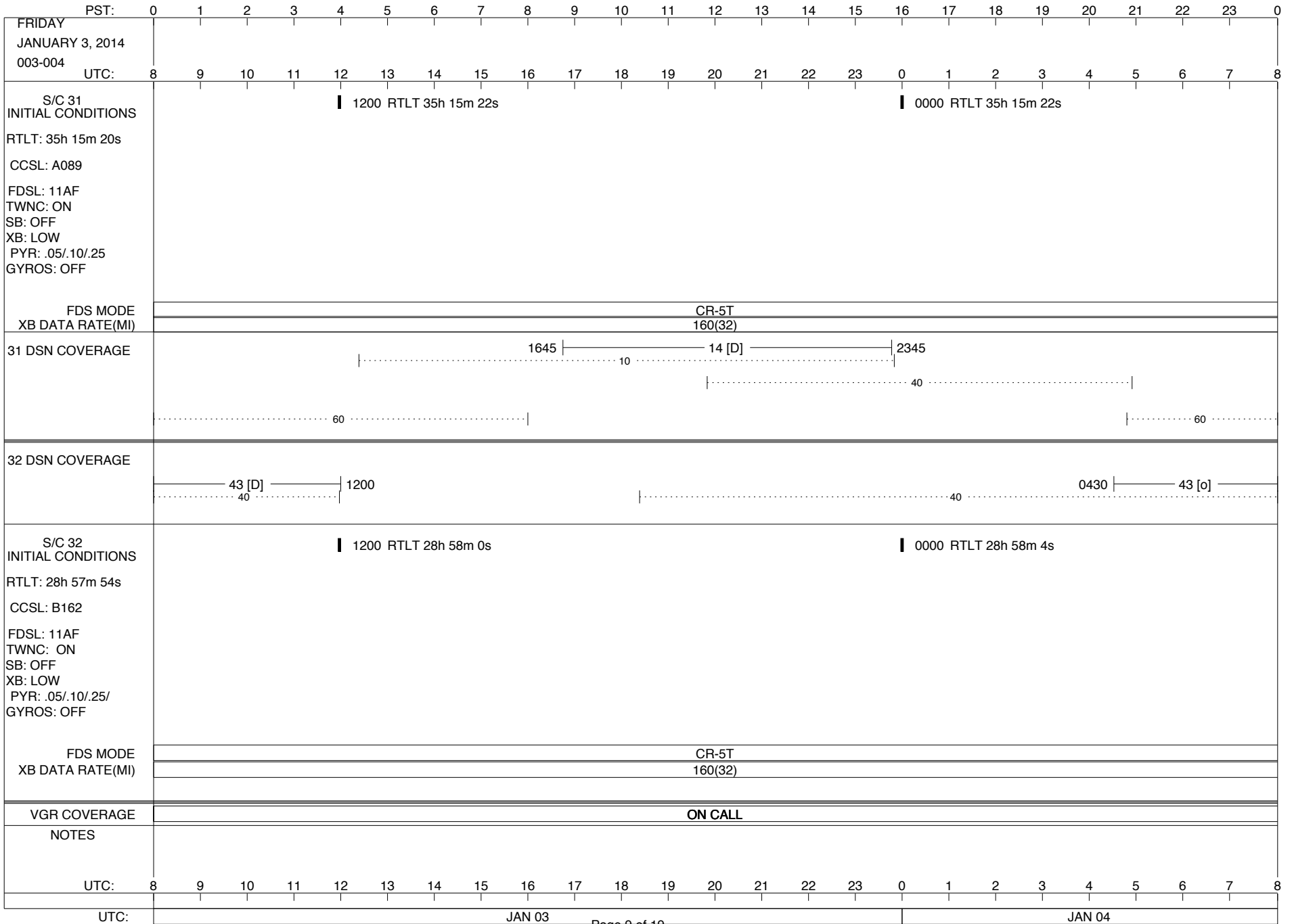
PST:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0
TUESDAY DECEMBER 31, 2013 365-001	UTC: 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLTL: 35h 15m 10s CCSL: A089 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 35h 15m 10s												0000 RTLTL 35h 15m 12s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	2015 |-----| 14 [D] |-----| 0000 |-----| 40 |-----|												1235 |-----| 63 [D] |-----| 1635 |-----| 60 |-----| 60												
32 DSN COVERAGE	43 [D] |-----| 0820 - 1210 |-----| 40 |-----| 40																								
S/C 32 INITIAL CONDITIONS RTLTL: 28h 57m 22s CCSL: B162 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 28h 57m 28s												0000 RTLTL 28h 57m 34s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE	ON CALL																								
NOTES	[1] S/C 31=GS-4B @ 2307 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 31												JAN 01												

ISSUE DATE: 12/24/13 18:07

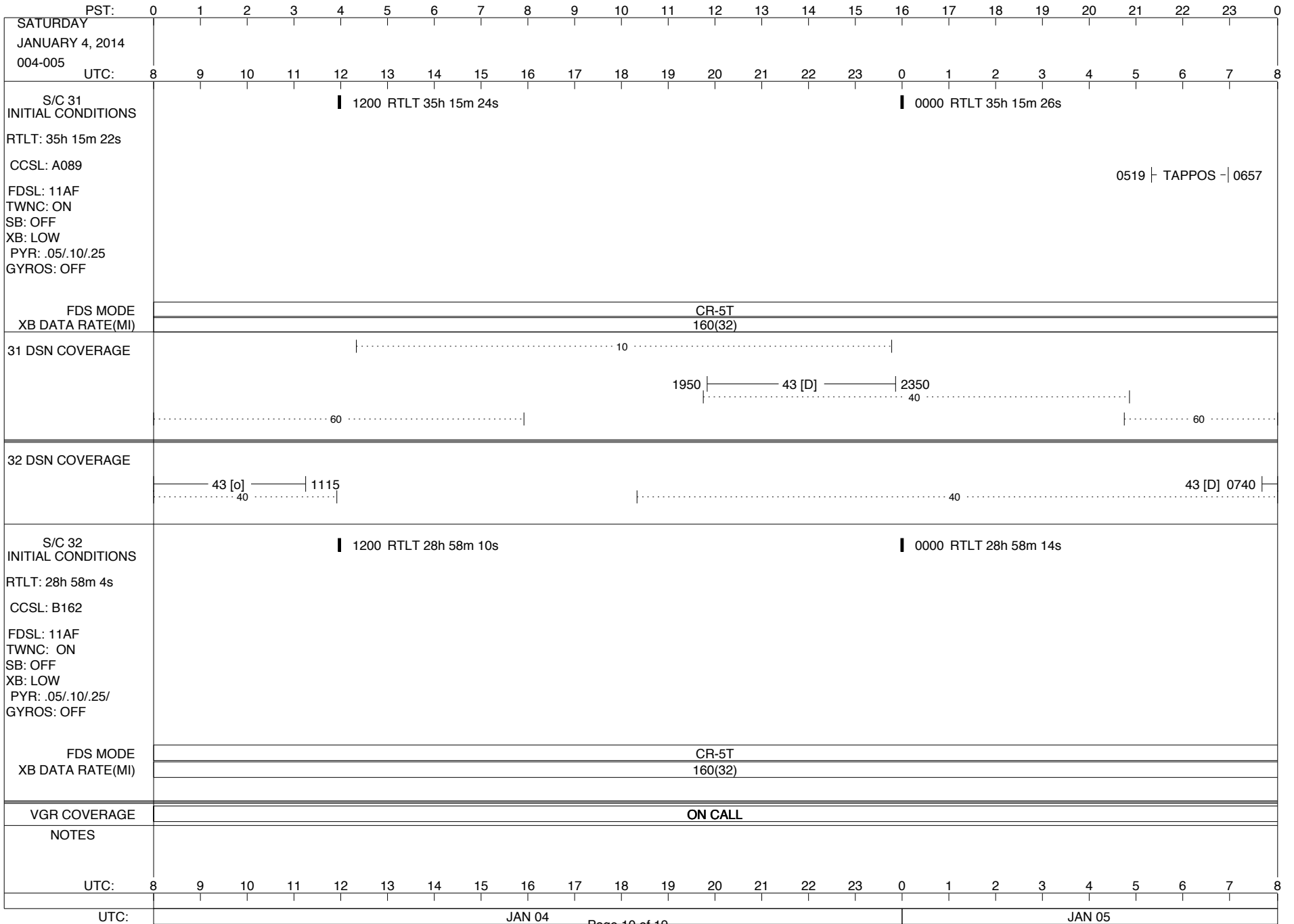


PST:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0
THURSDAY JANUARY 2, 2014 002-003	UTC: 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLTL: 35h 15m 16s CCSL: A089 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 15m 18s												0000 RTLT 35h 15m 20s												
FDS MODE	CR-5T												0521 GS-4B 0522 ↓												
XB DATA RATE(MI)	160(32)												CR-5T 160(32)												
31 DSN COVERAGE	1230 |----- 14 [D] -----| 1645												10 .....|----- 40 -----|												
	.....|----- 60 -----|												.....|----- 60 -----|												
32 DSN COVERAGE	45 [D] | 0905												43 [D] | 0715 |												
	0845 |----- 43 [D] -----| 1200												40 .....|----- 40 -----|												
	.....|----- 40 -----|												.....|----- 40 -----|												
S/C 32 INITIAL CONDITIONS RTLTL: 28h 57m 44s CCSL: B162 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 28h 57m 50s												0000 RTLT 28h 57m 54s												
FDS MODE	CR-5T																								
XB DATA RATE(MI)	160(32)																								
VGR COVERAGE	ON CALL																								
NOTES	[1] S/C 31=GS-4B @ 0521 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:	JAN 02												JAN 03												

ISSUE DATE: 12/24/13 18:07



ISSUE DATE: 12/24/13 18:07



ISSUE DATE: 12/24/13 18:07

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 JANUARY 5, 2014 005-006	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: 35h 15m 26s CCSL: A089 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 35h 15m 28s												0000 RTLTL 35h 15m 28s												
0821 - 0822 PWS/RH TAPPOS | 0833 - 0957	↓ 0822 GS-4B 0822												DUMMY (16:20) 0505▼ EL-40 (16:31) 0515▼ CCSL A090 (16:52) 0537▼ AHEL2 SID MRO CR-5T (17:26) 0610▼ U/L 0630 | - | TLC (SHORT-FORM) | - - - -												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
31 DSN COVERAGE	1320 | 25 [DA] | 1720 1320 | 26 [DAR] | 1720 10 .....												..... 40											
	..... 60												0440 | 63 [T] | ..... 60											
32 DSN COVERAGE	43 [D] | 1150 40												0150 - 0755 | 43 40												
S/C 32 INITIAL CONDITIONS RTLTL: 28h 58m 14s CCSL: B162 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 28h 58m 20s												0000 RTLTL 28h 58m 24s												
													DUMMY (5 MIN BRACKETED 08:31) 0332▼												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE	ON CALL												VGR												
NOTES	[1] S/C 31=GS-4B @ 0821 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:	JAN 05												JAN 06												

ISSUE DATE: 12/24/13 18:07

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 JANUARY 6, 2014 006-007	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: 35h 15m 28s CCSL: A089 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 35h 15m 30s												0000 RTLTL 35h 15m 32s															
----- TLC (SHORT-FORM) -----																												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)															
31 DSN COVERAGE	|.....10.....|												|.....40.....|															
	|0845 63 [T].....60.....|												|.....0435 - 0745.....63 [D].....60.....|															
32 DSN COVERAGE	|.....40.....|												|.....40.....43 [D] 0740 |															
S/C 32 INITIAL CONDITIONS RTLTL: 28h 58m 24s CCSL: B162 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 28h 58m 30s												0000 RTLTL 28h 58m 34s															
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:	JAN 06														JAN 07													

ISSUE DATE: 12/24/13 18:07

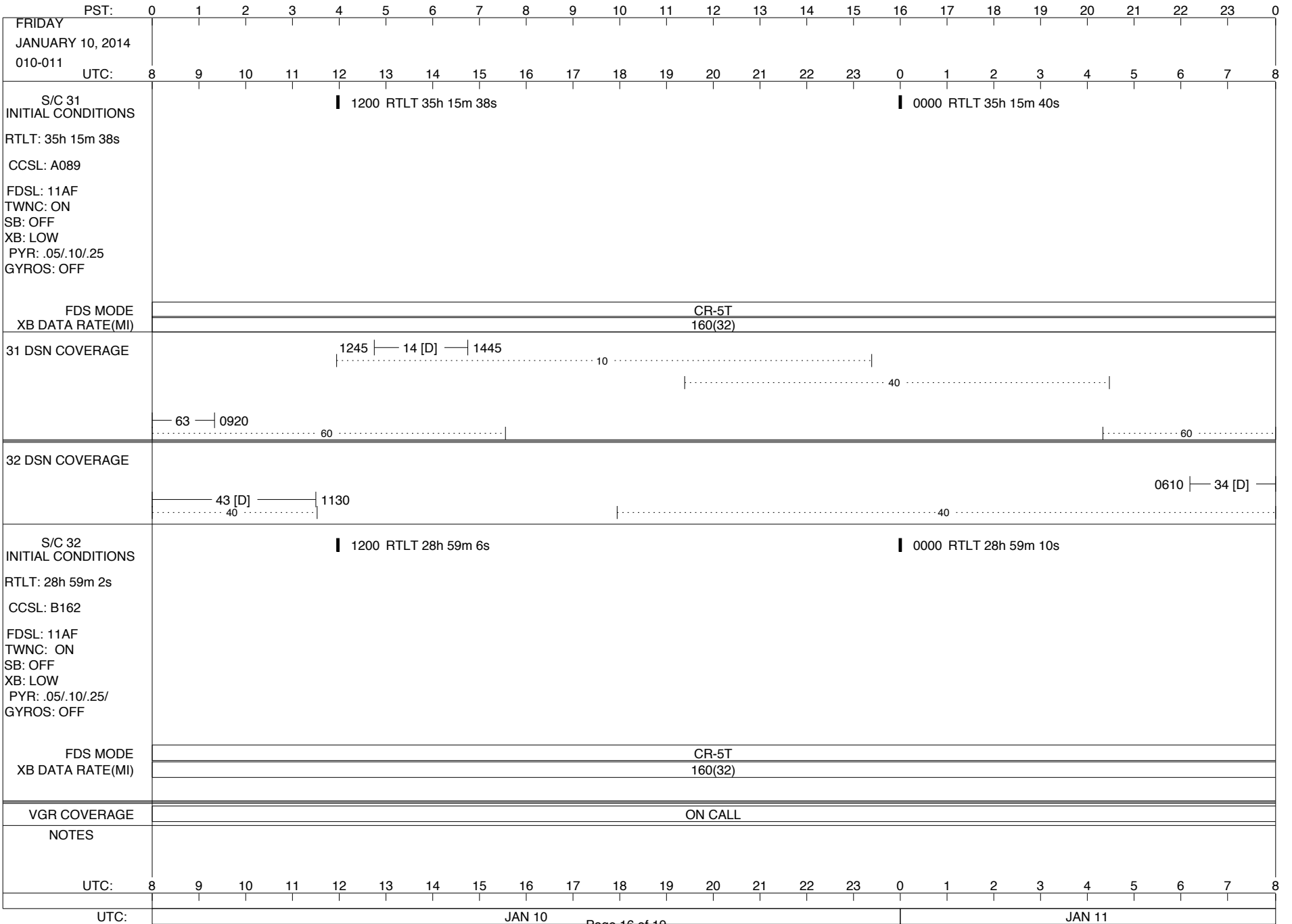
TUESDAY JANUARY 7, 2014 007-008		PST: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0																																															
UTC: 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 8		S/C 31 INITIAL CONDITIONS RTLT: 35h 15m 32s CCSL: A089 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF												1200 RTLT 35h 15m 32s												0000 RTLT 35h 15m 34s																							
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)												EL-40 1631 40(30)												CR-5T 160(32)																							
31 DSN COVERAGE		1530 |-----| 14 [D] |-----| 2005												10												40																							
32 DSN COVERAGE		43 [D] |-----| 1140												40												2335 |-----| 43 [D] |-----| 0335												40											
S/C 32 INITIAL CONDITIONS RTLT: 28h 58m 34s CCSL: B162 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF		1200 RTLT 28h 58m 38s												0000 RTLT 28h 58m 44s																																			
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)																																															
VGR COVERAGE		ON CALL												VGR												ON CALL																							
NOTES		[1] S/C 31=EL-40 XB=40(30) @ 1631 [2] S/C 31=CR-5T XB=160(32) @ 1731 [3] S/C 31=GS-4B @ 2243 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		JAN 07												JAN 08																																			

ISSUE DATE: 12/24/13 18:07

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 JANUARY 8, 2014 008-009	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: 35h 15m 34s CCSL: A089 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 35h 15m 34s												0000 RTLTL 35h 15m 36s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	1205 |----- 14 [D] -----| 1620 |----- 10 -----| |----- 40 -----|												0815 63 [D] |----- 60 -----| 0430 - 0745 |----- 63 [D] -----| |----- 60 -----|												
32 DSN COVERAGE	43 [D] |----- 40 -----| 0825 - 1135												|----- 40 -----| 43 [D] 0735 |												
S/C 32 INITIAL CONDITIONS RTLTL: 28h 58m 44s CCSL: B162 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 28h 58m 48s												0000 RTLTL 28h 58m 52s												
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:	JAN 08												JAN 09												

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 JANUARY 9, 2014 009-010																									
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: 35h 15m 36s CCSL: A089 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 35h 15m 36s												█ 0000 RTLTL 35h 15m 38s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	1255 | 14 [D] | 1415.....|.....10.....|.....40.....| .....60.....|.....0520 | 63 | .....60.....|.....60.....												0155 |-----| 0306 TAPPOS 0456 || 0458 PWS/RH TAPPOS 0509 |-----| 0606 ↓ 0456 GS-4B 0458												
32 DSN COVERAGE	43 [D] | 1135.....40.....|.....0420 | 34 [o] | 0550.....40.....|.....0530 | 43 [D] |																								
S/C 32 INITIAL CONDITIONS RTLTL: 28h 58m 52s CCSL: B162 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	█ 1200 RTLTL 28h 58m 56s												█ 0000 RTLTL 28h 59m 2s												
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 @ 0456 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:	JAN 09												JAN 10												

ISSUE DATE: 12/24/13 18:07



ISSUE DATE: 12/24/13 18:07

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 JANUARY 12, 2014 012-013	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: 35h 15m 40s CCSL: A089 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 35h 15m 42s												█ 0000 RTLTL 35h 15m 42s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	0850 |----- 63 [D] -----| 1545 .....60.....												2040 |----- 14 [D] -----| 2310 .....40.....												
32 DSN COVERAGE	0840 |----- 45 [D] -----| .....40.....												0315 |----- 43 [D] -----| .....40.....												
S/C 32 INITIAL CONDITIONS RTLTL: 28h 59m 18s CCSL: B162 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	█ 1200 RTLTL 28h 59m 22s												█ 0000 RTLTL 28h 59m 26s												
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:	JAN 12												JAN 13												

ISSUE DATE: 12/24/13 18:07

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 JANUARY 13, 2014 013-014	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: 35h 15m 42s CCSL: A089 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	| 1200 RTLT 35h 15m 42s																										
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)													
31 DSN COVERAGE	1145 |----- 14 [D] -----| 1545 .....|----- 10 -----| .....|----- 60 -----|																										
32 DSN COVERAGE	----- 43 [D] -----| 1115 .....|----- 40 -----|																										
S/C 32 INITIAL CONDITIONS RTLT: 28h 59m 26s CCSL: B162 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	| 1200 RTLT 28h 59m 30s																										
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:	JAN 13													JAN 14													