

VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: December 31, 2013

For the Period: 01/02/13 to 01/20/14 (14-002 – 14-020)

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

* KMassej@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

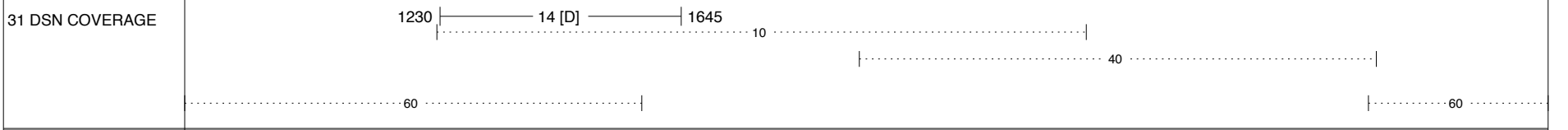
ISSUE DATE: 12/31/13 17:11

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
RTLT: 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
0219 | - TAPPOS - | 0411
0521 | 0522 PWS/RH
0533 - 0711 | TAPPOS - |
0521 GS-4B 0522 ↓

FDS MODE
XB DATA RATE(MI)
CR-5T
160(32)
CR-5T
160(32)



S/C 32
INITIAL CONDITIONS
RTLT: 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
XB DATA RATE(MI)
CR-5T
160(32)

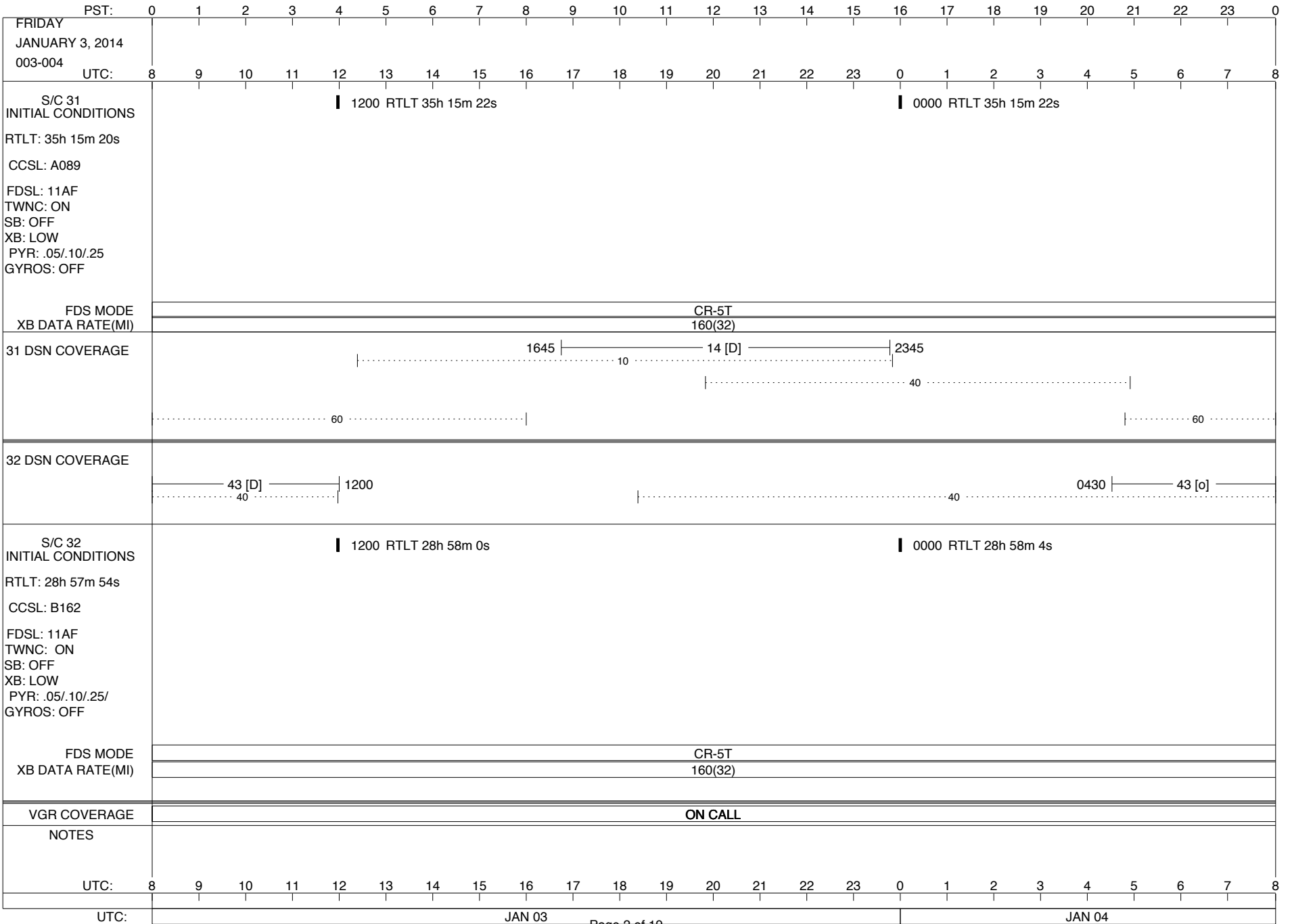
VGR COVERAGE
ON CALL

NOTES
[1] S/C 31=GS-4B @ 0521 XB=2.8K(41) NOT RECOVERABLE

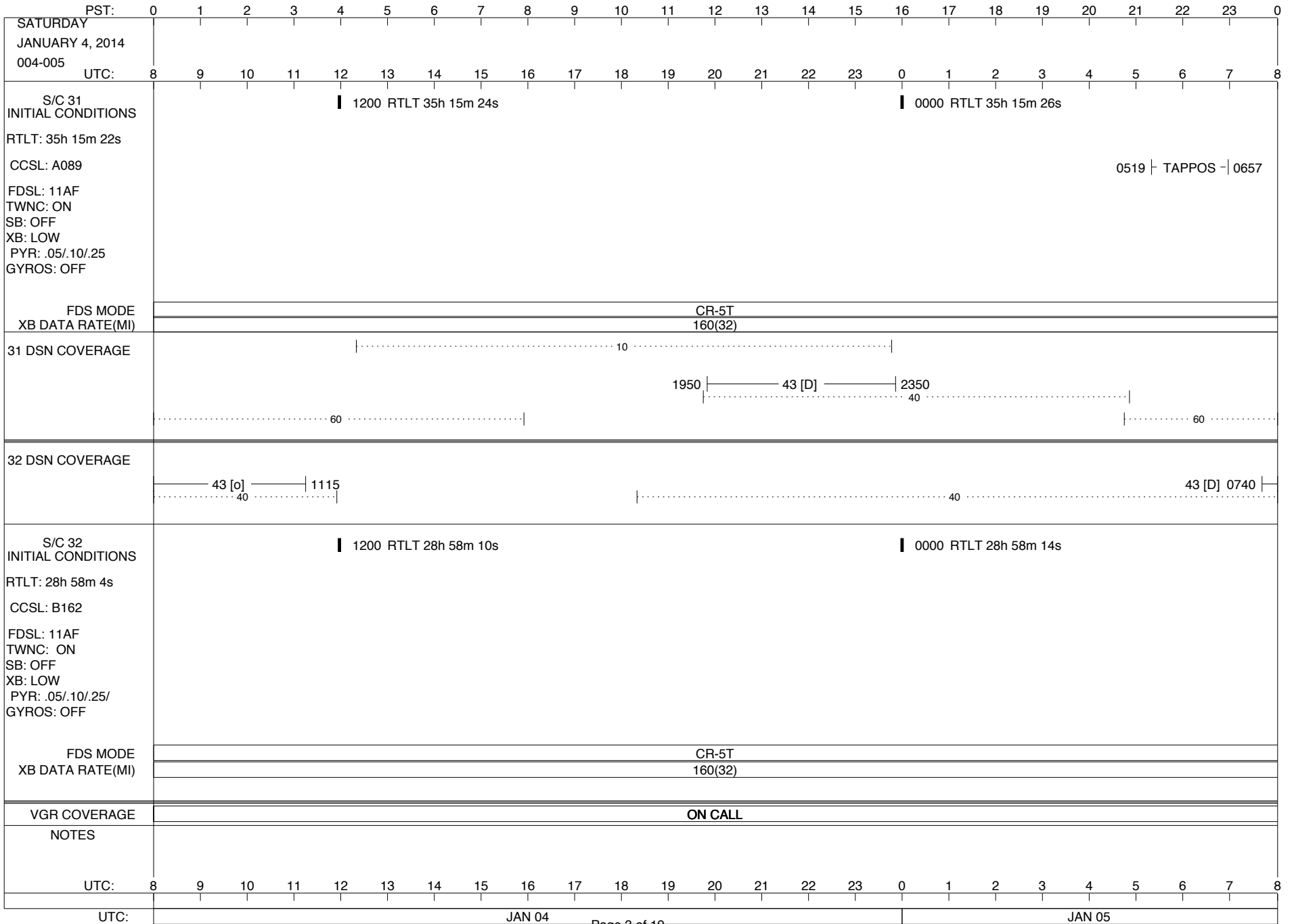
UTC: 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 8

UTC: JAN 02 Page 1 of 19 JAN 03

ISSUE DATE: 12/31/13 17:11



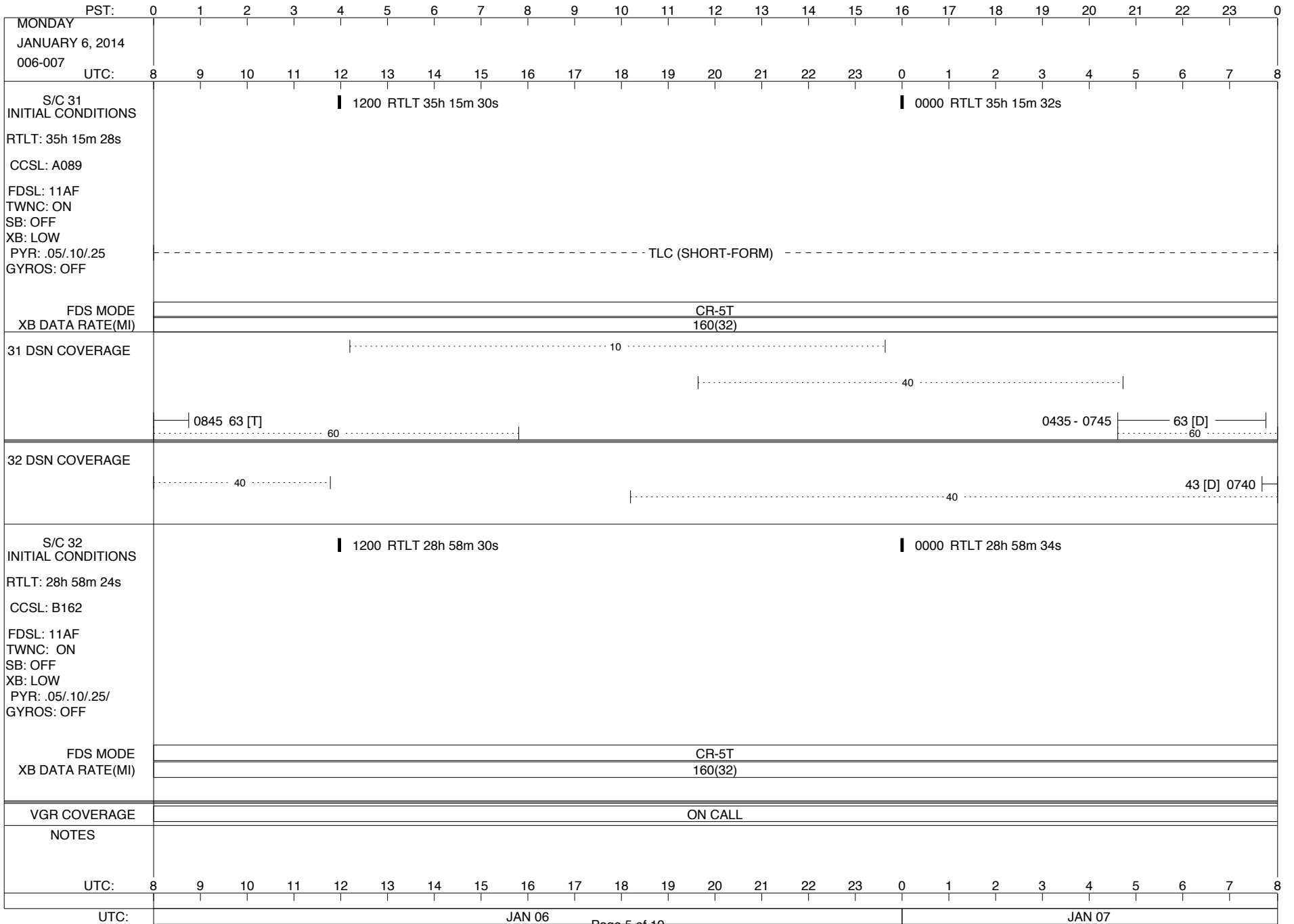
ISSUE DATE: 12/31/13 17:11



ISSUE DATE: 12/31/13 17:11

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 RTLT: 35h 15m 26s CCSL: A089 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 15m 28s												0000 RTLT 35h 15m 28s												
	0821 - 0822 PWS/RH TAPPOS 0833 - 0957												DUMMY (16:20) 0505▼ EL-40 (16:31) 0515▼ CCSL A090 (16:52) 0537▼ AHEL12 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 [B] 40												
S/C 32 INITIAL CONDITIONS RTLT: 28h 58m 14s CCSL: B162 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 28h 58m 20s												0000 RTLT 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: 12/31/13 17:11



ISSUE DATE: 12/31/13 17:11

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 40(30)		CR-5T 160(32)												CR-5T 160(32)	
31 DSN COVERAGE		<p>1530 ----- 14 [D] ----- 2005</p> <p>..... ----- 40</p> <p>..... ----- 60</p> <p>..... ----- 0435 ----- 63 [D] ----- 60</p>																											
32 DSN COVERAGE		<p>----- 43 [D] ----- 1140</p> <p>..... ----- 40</p> <p>..... ----- 2335 ----- 43 [D] ----- 0335</p> <p>..... ----- 40</p>																											
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		<p>[3] S/C 31=GS-4B @ 2243 XB=2.8K(41) NOT RECOVERABLE</p> <p>[1] S/C 31=EL-40 XB=40(30) @ 1631</p> <p>[2] S/C 31=CR-5T XB=160(32) @ 1731</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:		JAN 07												Page 6 of 19						JAN 08									

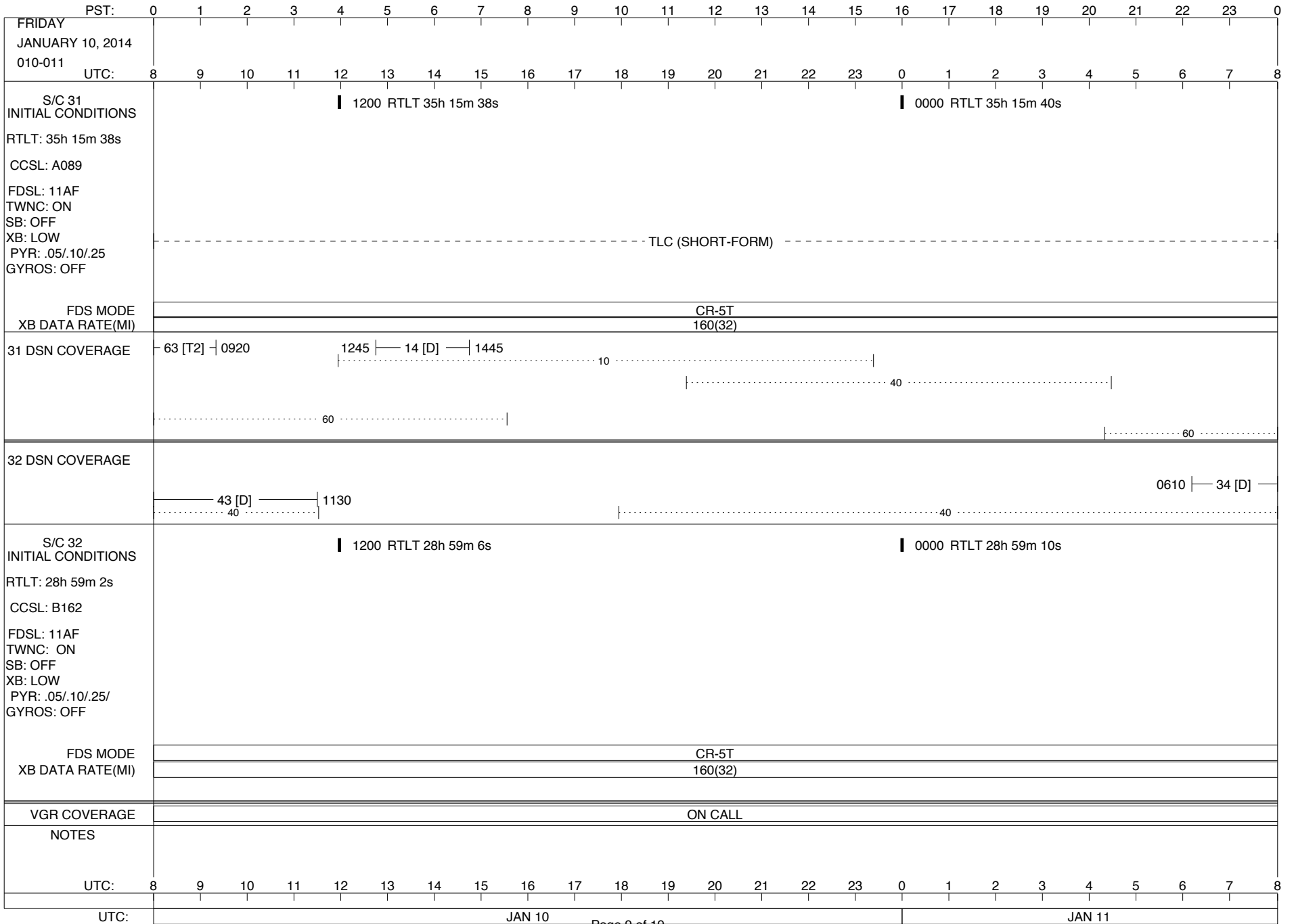
ISSUE DATE: 12/31/13 17:11

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												

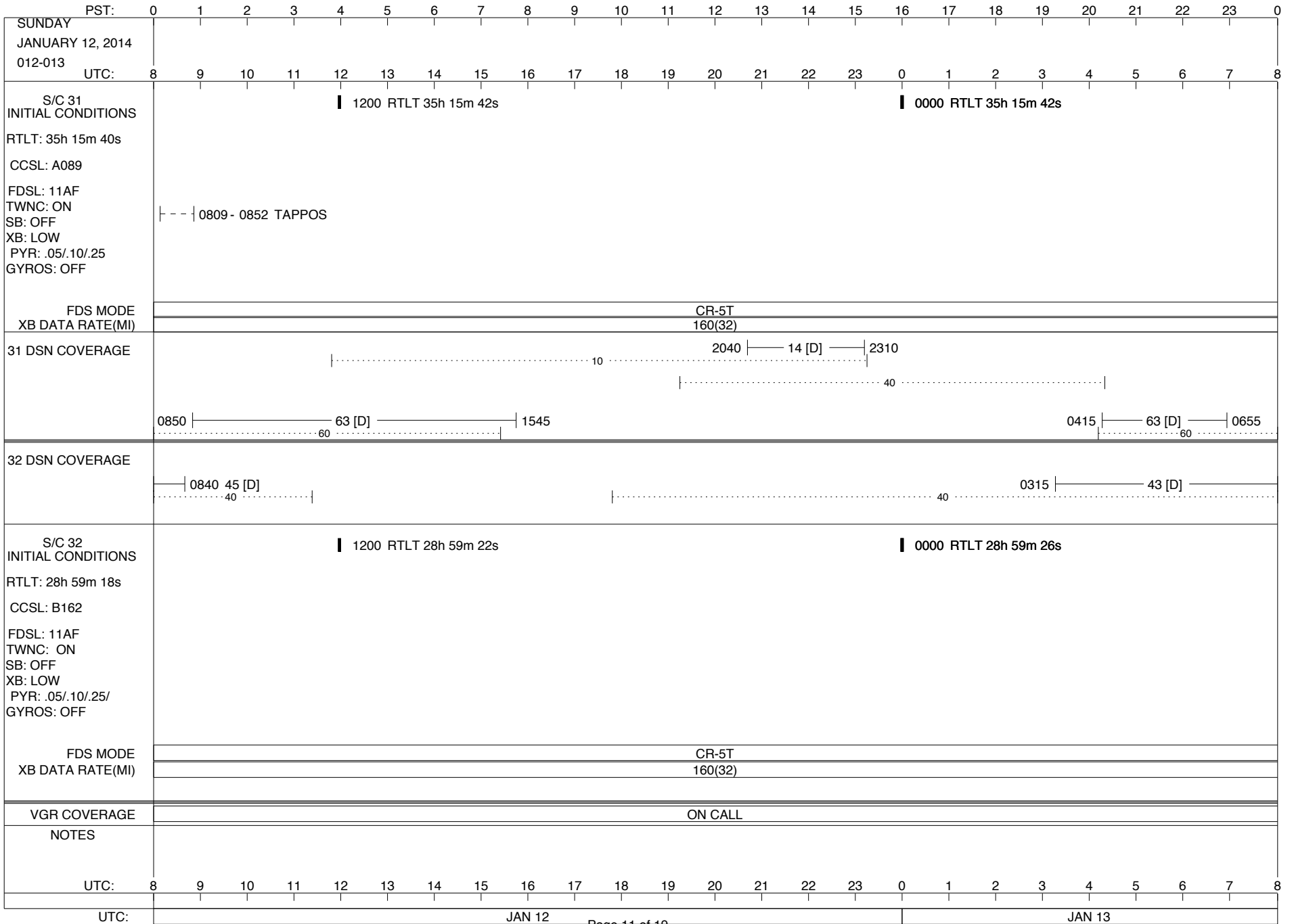
ISSUE DATE: 12/31/13 17:11

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 RTLT: 35h 15m 36s CCSL: A089 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF					█ 1200												█ 0000									
FDS MODE	CR-5T											CR-5T														
XB DATA RATE(MI)	160(32)											160(32)														
31 DSN COVERAGE					1255																					
32 DSN COVERAGE																										
S/C 32 INITIAL CONDITIONS RTLT: 28h 58m 52s CCSL: B162 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF					█ 1200												█ 0000									
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 @ 0456 XB=2.8K(41) NOT RECOVERABLE [2] A090 BACKUP U/L TRACK																									
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: 12/31/13 17:11



ISSUE DATE: 12/31/13 17:11



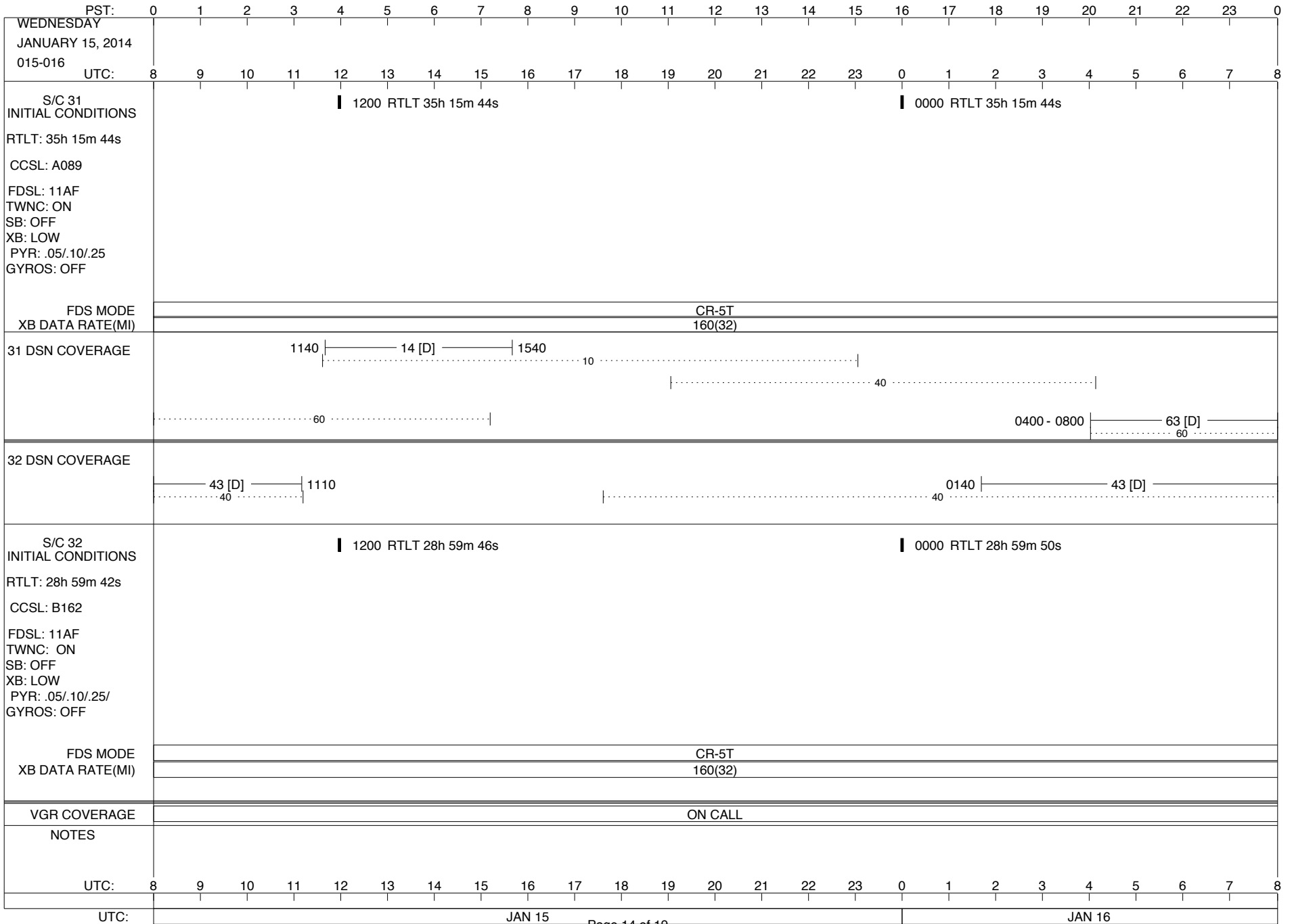
ISSUE DATE: 12/31/13 17:11

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												0000 RTLT 35h 15m 42s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	1145 ----- 14 [D] ----- 1545												10 ----- 40 -----												
	60 ----- 60 -----												
32 DSN COVERAGE	43 [D] ----- 1115												40 ----- 40 ----- 0445 ----- 43 [o] -----												
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												0000 RTLT 28h 59m 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 13												JAN 14												

ISSUE DATE: 12/31/13 17:11

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 JANUARY 14, 2014 014-015					
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	<div style="display: flex; justify-content: space-between;"> <div>█ 1200 RTLT 35h 15m 44s</div> <div>█ 0000 RTLT 35h 15m 44s</div> </div> <p style="text-align: center;">▼ 1555 DUMMY (03:11)</p> <p style="text-align: right;">2220 2221 PWS/RH</p> <p style="text-align: center;">↓ 2220 GS-4B 2221</p>				
FDS MODE XB DATA RATE(MI)	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%; text-align: center;">CR-5T 160(32)</td> <td style="width: 50%; text-align: center;">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>1155 ----- 14 ----- 1605 ----- 14 [D] ----- 2305</p> <p style="margin-left: 100px;">..... 10</p> <p style="margin-left: 400px;">..... 40</p> <p style="margin-left: 100px;">..... 60</p> <p style="margin-left: 800px;">..... 60</p>				
32 DSN COVERAGE	<p>0850 ----- 43 [o] ----- 40</p> <p style="margin-left: 400px;">..... 40</p> <p style="margin-left: 800px;">43 [D] 0710 -----</p>				
S/C 32 INITIAL CONDITIONS RTLT: 28h 59m 34s CCSL: B162 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	<div style="display: flex; justify-content: space-between;"> <div>█ 1200 RTLT 28h 59m 38s</div> <div>█ 0000 RTLT 28h 59m 42s</div> </div>				
FDS MODE XB DATA RATE(MI)	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%; text-align: center;">CR-5T 160(32)</td> </tr> </table>		CR-5T 160(32)		
	CR-5T 160(32)				
VGR COVERAGE	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%; text-align: center;">ON CALL</td> <td style="width: 50%; text-align: center;">VGR</td> </tr> <tr> <td style="width: 50%; text-align: center;">ON CALL</td> <td style="width: 50%; text-align: center;">ON CALL</td> </tr> </table>	ON CALL	VGR	ON CALL	ON CALL
ON CALL	VGR				
ON CALL	ON CALL				
NOTES	[1] S/C 31=GS-4B @ 2220 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 14 JAN 15					

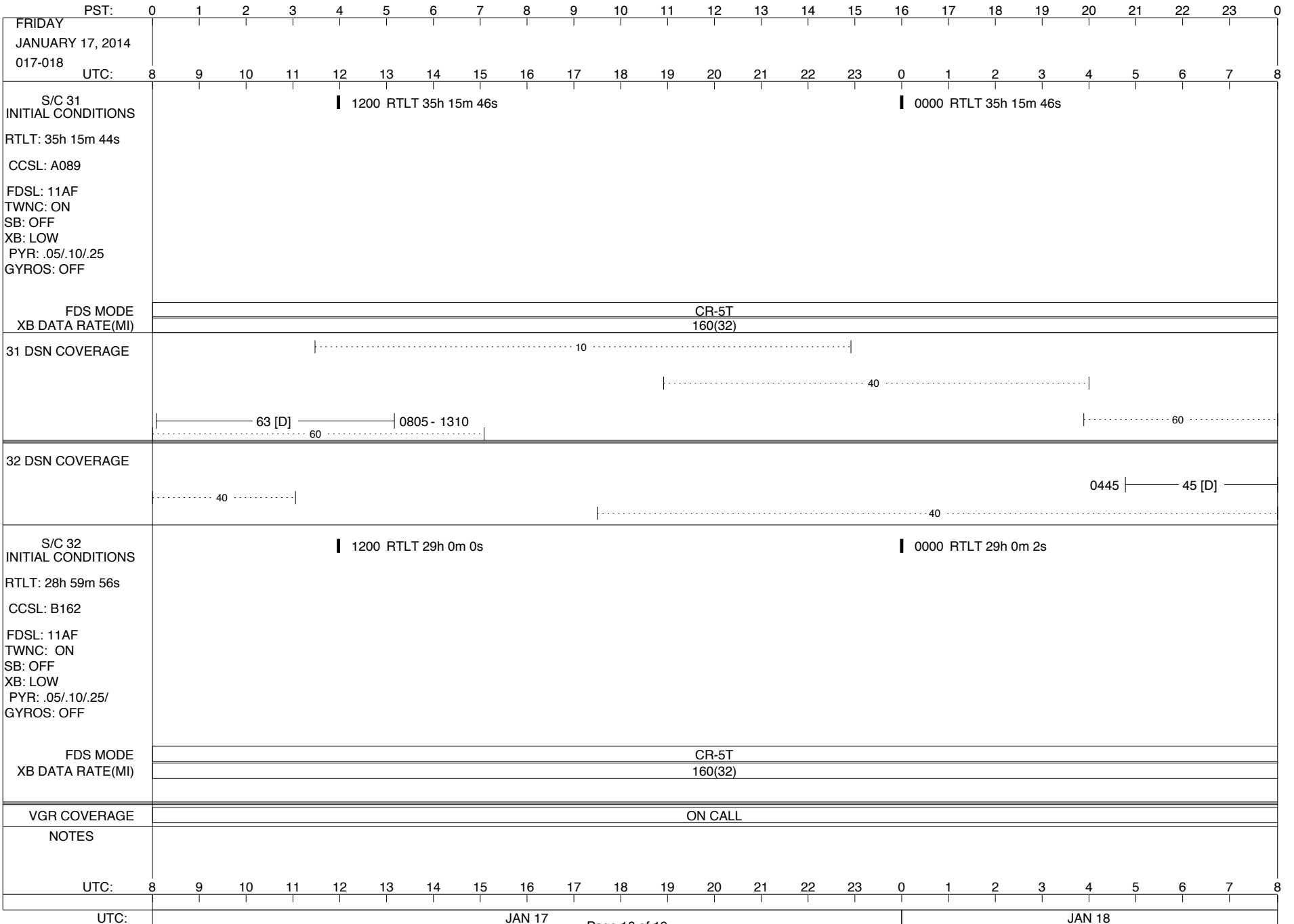
ISSUE DATE: 12/31/13 17:11



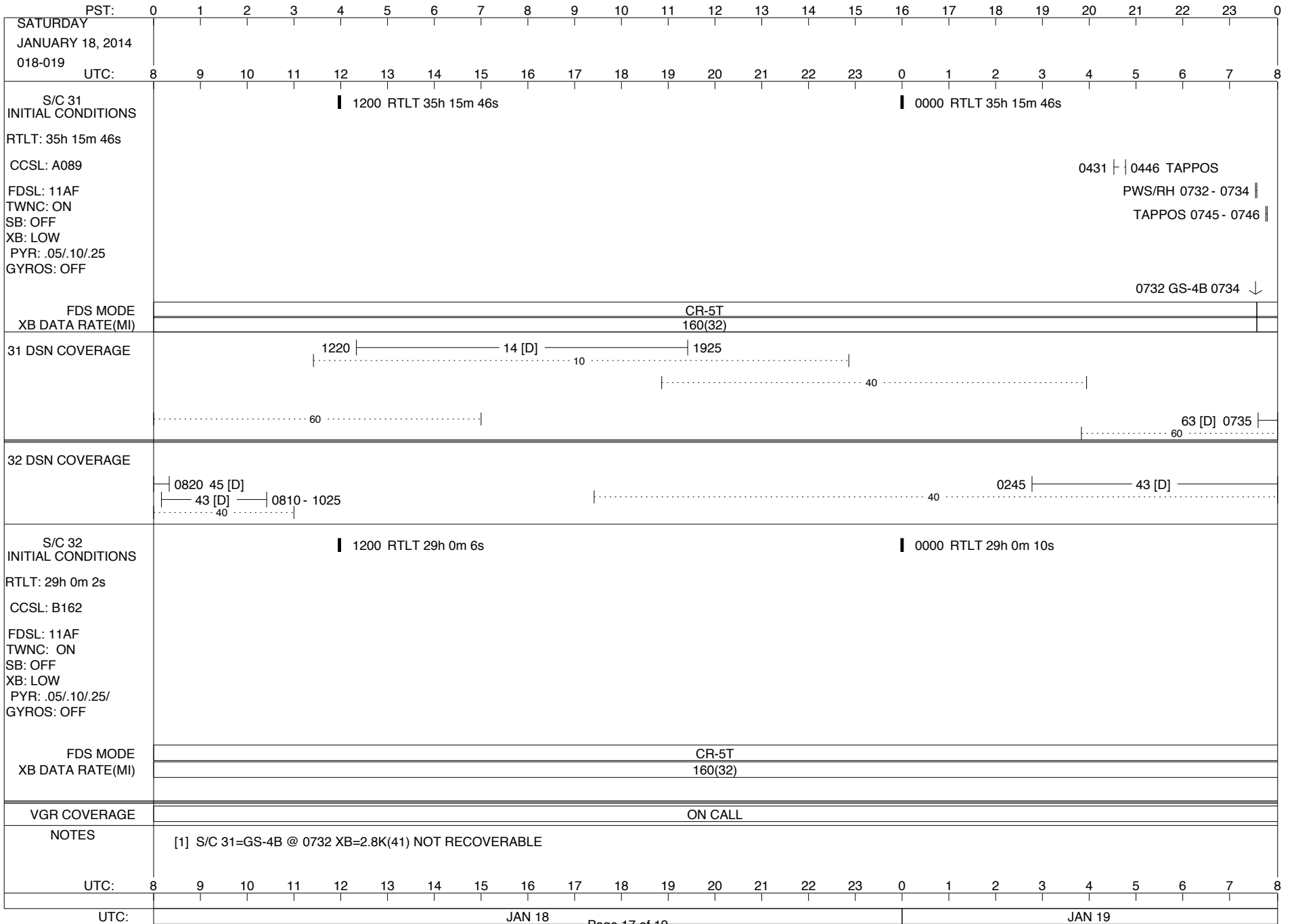
ISSUE DATE: 12/31/13 17:11

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 16, 2014 016-017																									
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 44s CCSL: A089 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 35h 15m 44s												█ 0000 RTLTL 35h 15m 44s												
													0131 - 0200 TAPPOS 0432 0434 PWS/RH 0445 0500 TAPPOS												
													↓ 0432 GS-4B 0434												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	----- 10 -----												----- 40 -----												
	0800 63 [D] ----- 60												----- 60												
32 DSN COVERAGE	43 [D] 0910 -----												0300 - 0715 ----- 45 [D] -----												
S/C 32 INITIAL CONDITIONS RTLTL: 28h 59m 50s CCSL: B162 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	█ 1200 RTLTL 28h 59m 52s												█ 0000 RTLTL 28h 59m 56s												
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 @ 0432 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 16												JAN 17												

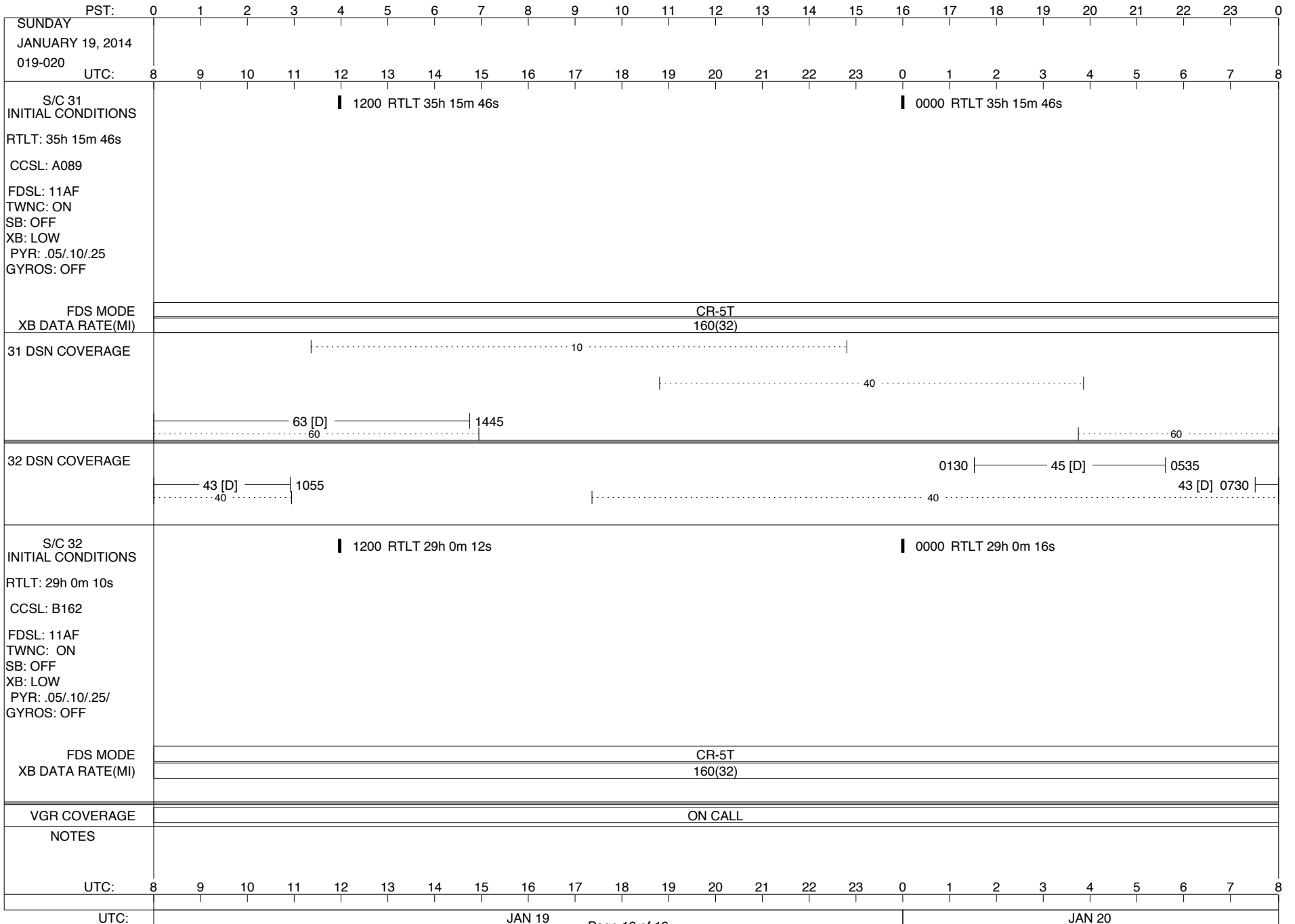
ISSUE DATE: 12/31/13 17:11



ISSUE DATE: 12/31/13 17:11



ISSUE DATE: 12/31/13 17:11



ISSUE DATE: 12/31/13 17:11

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 20, 2014 020-021	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 46s CCSL: A089 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 15m 46s																										
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)													
31 DSN COVERAGE 10																										
	1115 ----- 63 [D] ----- 1515 60																										
32 DSN COVERAGE	----- 43 [D] ----- 1050 40																										
S/C 32 INITIAL CONDITIONS RTLT: 29h 0m 16s CCSL: B162 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 29h 0m 18s																										
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)													
VGR COVERAGE	ON CALL																										
NOTES	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:	JAN 20													JAN 21													