

VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: December 11, 2013

For the Period: 12/12/13 to 12/30/13 (13-346 – 13-364)

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 *Donald-Gurnett@uiowa.edu

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 Howard, S. (3)
 Ludwig, R. (2)
 Matsumoto, S.
 Medina
 Peralta, F.
 Weeks, T.
 Wong, R.
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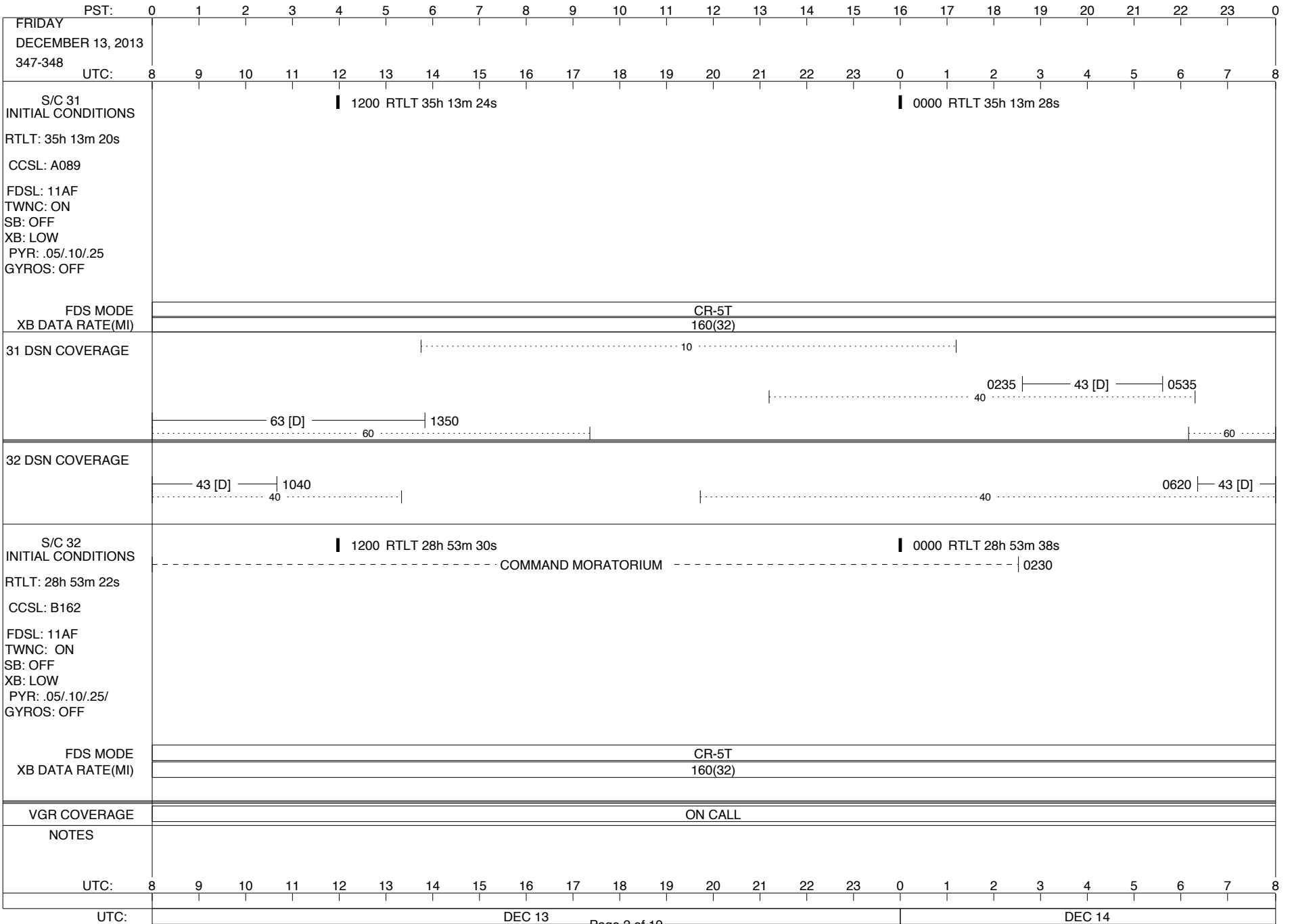
LEGEND:
 ▽ = R/T Command (Last chance or Contingency)
 ▼ = R/T Command (Scheduled)
 * = Result of R/T Command
 n = (where n = 1,2,3 ..) Special Note, see bottom of page
 A = Arrayed station
 B = BLF
 D = Downlink only pass
 H = High Power Transmitter
 R = Array Reference Antenna
 T = TLC Uplink
 U = Uplink only pass
 [o] = Ramp-through

*Electronic Copy Only
 (16 – Dist/N: Paper Copies)
 09/08/10

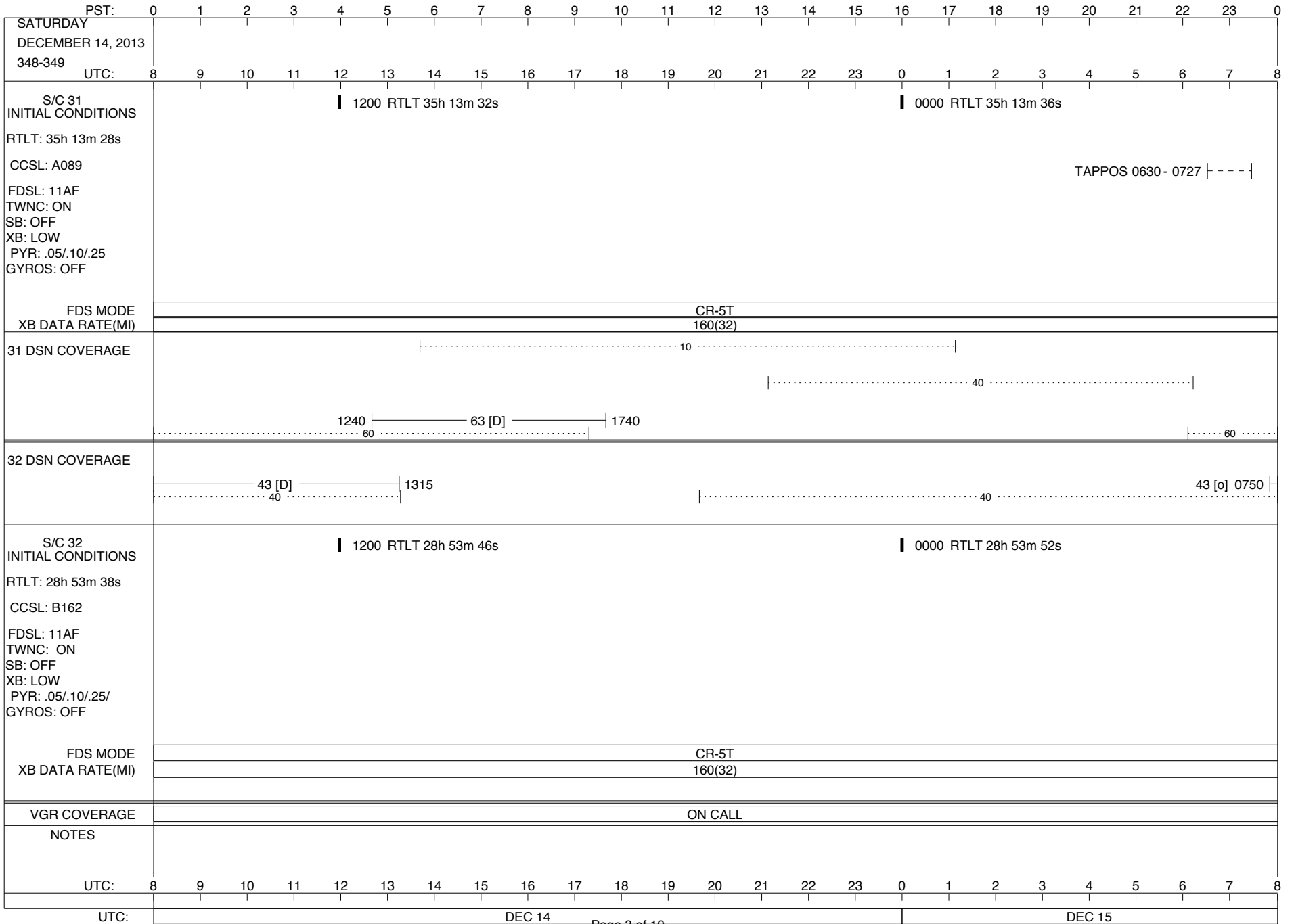
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S/C 31 INITIAL CONDITIONS RTLTL: 35h 13m 12s CCSL: A089 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 35h 13m 16s												0000 RTLTL 35h 13m 20s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	<p>10</p> <p>2130 43 [D] 0000</p> <p>1430 63 [D] 1745</p> <p>0700 63 [D]</p>																								
32 DSN COVERAGE	<p>43 [D] 1320</p> <p>0045 43 [D]</p>																								
S/C 32 INITIAL CONDITIONS RTLTL: 28h 53m 8s CCSL: B162 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25/ GYROS: BC ON	1200 RTLTL 28h 53m 14s												0000 RTLTL 28h 53m 22s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL												VGR												
NOTES	<p>[1] S/C 31=GS-4B @ 0632 XB=2.8K(41) NOT RECOVERABLE</p> <p>[2] S/C 32=D/L AGC & SNR VARIATIONS EXPECTED DURING MAGROL (0122-0717)</p>																								
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ISSUE DATE: 12/16/13 15:59



ISSUE DATE: 12/16/13 15:59



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SUNDAY DECEMBER 15, 2013 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 RTLTL: 35h 13m 36s CCSL: A089 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 35h 13m 40s												0000 RTLTL 35h 13m 44s												
	0932 0933 PWS/RH 0944 ----- 1054 TAPPOS																								
	↓ 0932 GS-4B 0933																								
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	1930 ----- 14 [D] ----- 0100 ----- 10 ----- 40												1405 ----- 63 [D] ----- 1735 ----- 60 ----- 60												
32 DSN COVERAGE	43 [o] ----- 1145 ----- 40												0515 ----- 43 [o] ----- ----- 40												
S/C 32 INITIAL CONDITIONS RTLTL: 28h 53m 52s CCSL: B162 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 28h 54m 0s												0000 RTLTL 28h 54m 8s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE													ON CALL												
NOTES	[1] S/C 31=GS-4B @ 0932 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
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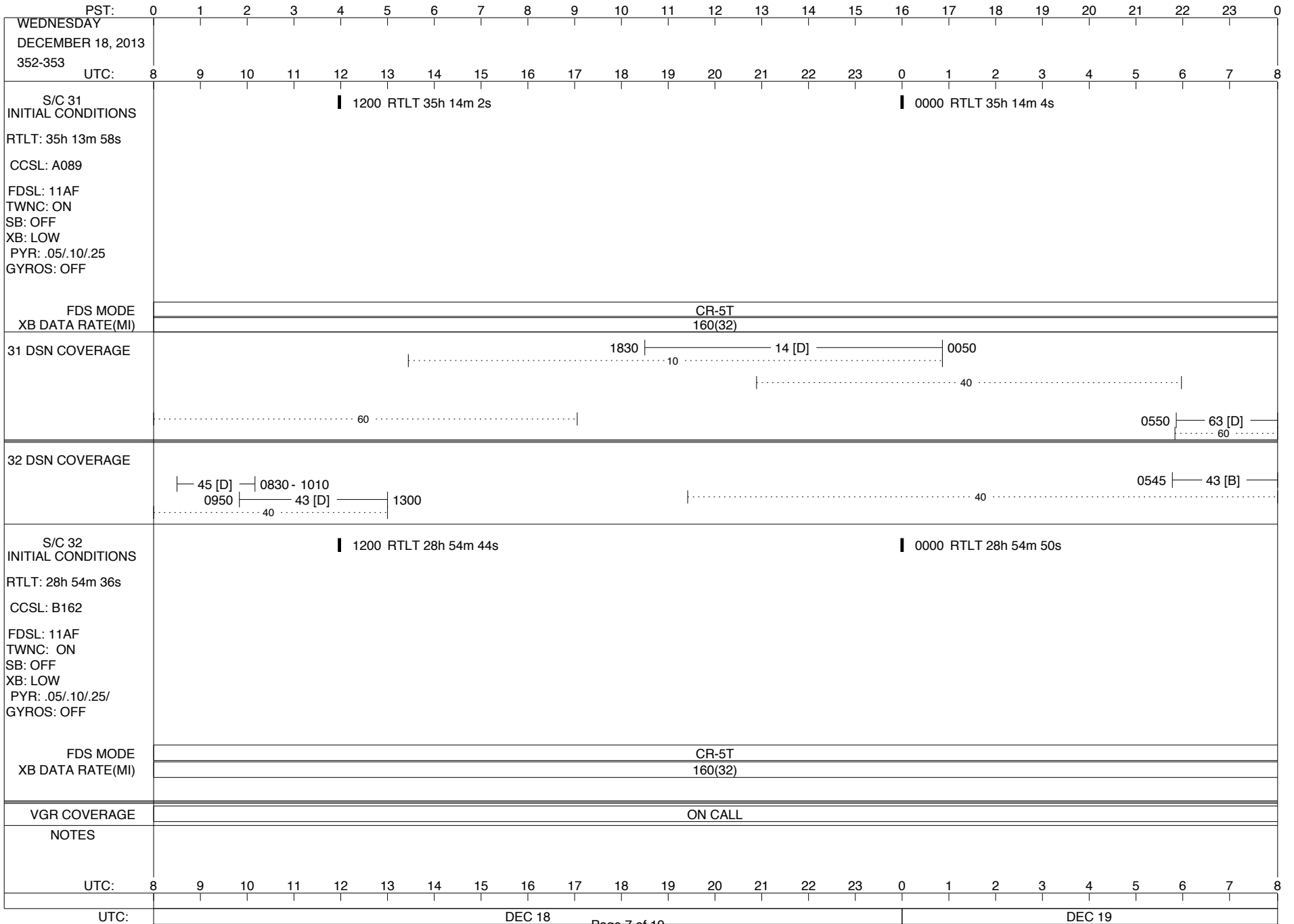
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MONDAY DECEMBER 16, 2013 350-351	UTC: 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLTL: 35h 13m 44s CCSL: A089 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 35h 13m 48s												█ 0000 RTLTL 35h 13m 50s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
31 DSN COVERAGE	1140 -----60----- 63 [T] ----- 1730												2300 -----14 [D]----- 0055 -----40-----												
32 DSN COVERAGE	43 [o] -----40----- 1305												0205 -----40----- 45 [D] -----												
S/C 32 INITIAL CONDITIONS RTLTL: 28h 54m 8s CCSL: B162 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	█ 1200 RTLTL 28h 54m 16s												█ 0000 RTLTL 28h 54m 22s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												EL-40 0233↓ EL-40 40(30)												
VGR COVERAGE	ON CALL						VGR						ON CALL						VGR						
NOTES	[1] S/C 32=EL-40 @ 0233 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:	DEC 16												DEC 17												

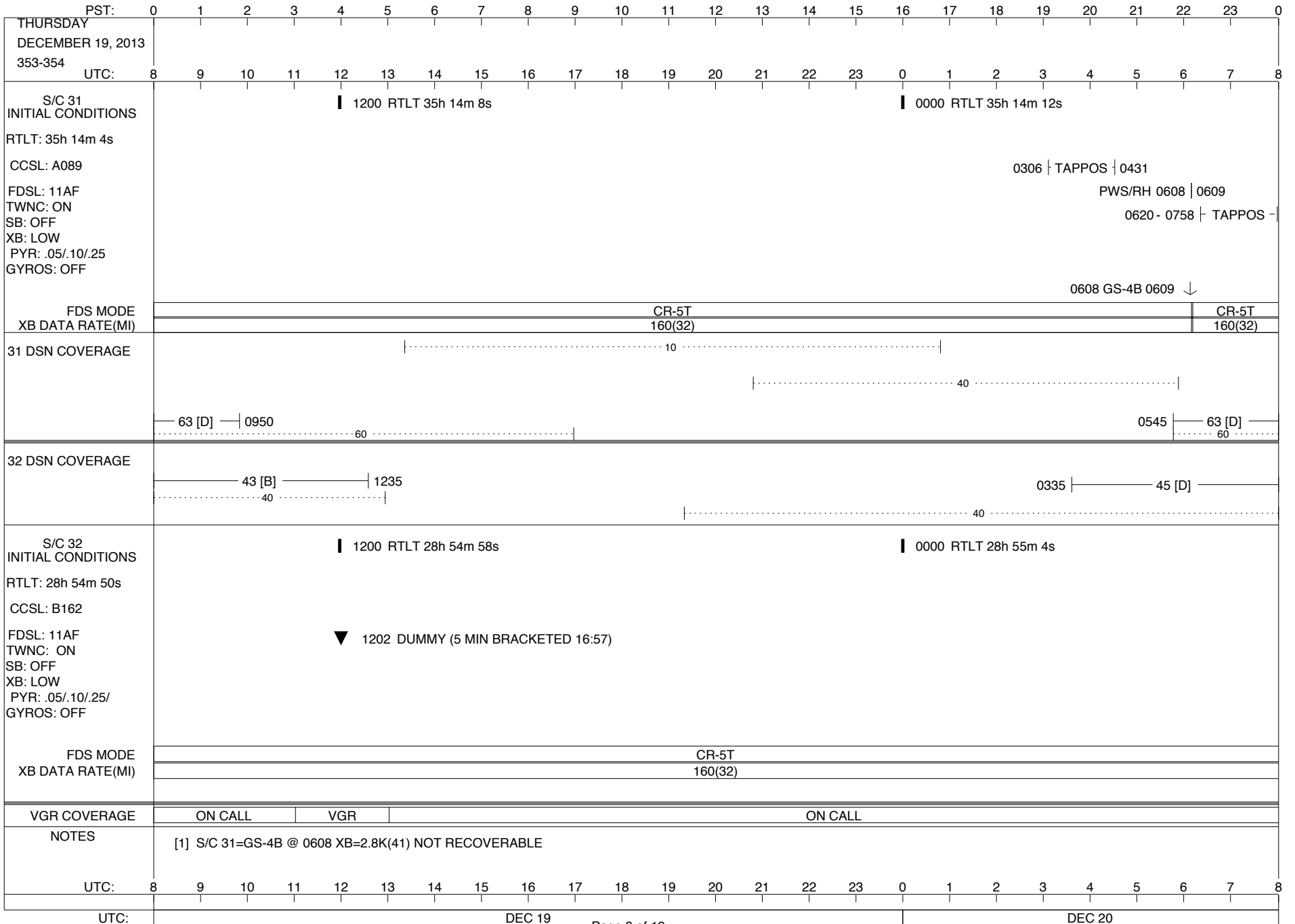
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TUESDAY																													
DECEMBER 17, 2013																													
351-352																													
UTC:		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8			
S/C 31 INITIAL CONDITIONS		1200 RTLT 35h 13m 54s														0000 RTLT 35h 13m 58s													
RTLTL: 35h 13m 50s																													
CCSL: A089		----- TLC (LONG-FORM) ----- D/L - 0047																											
FDSL: 11AF																													
TWNC: ON																													
SB: OFF																													
XB: LOW																													
PYR: .05/.10/.25																													
GYROS: OFF																													
FDS MODE		CR-5T														CR-5T													
XB DATA RATE(MI)		160(32)														160(32)													
31 DSN COVERAGE		<div style="display: flex; justify-content: space-between;"> 1930 14 [D] 0055 </div> <hr style="border-top: 1px dashed black;"/> <div style="display: flex; justify-content: space-between;"> 10 40 </div> <hr style="border-top: 1px dashed black;"/> <div style="display: flex; justify-content: space-between;"> 60 60 </div>																											
32 DSN COVERAGE		<div style="display: flex; justify-content: space-between;"> 45 [D] 1020 </div> <hr style="border-top: 1px dashed black;"/> <div style="display: flex; justify-content: space-between;"> 40 40 </div>																											
S/C 32 INITIAL CONDITIONS		1200 RTLT 28h 54m 30s														0000 RTLT 28h 54m 36s													
RTLTL: 28h 54m 22s																													
CCSL: B162																													
FDSL: 11AF																													
TWNC: ON		0817 CCSA MRO																											
SB: OFF		----- 0817 - 0934 CCSB MRO																											
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													
NOTES		[1] S/C 32=CR-5T @ 0935 XB=160(32) [2] S/C 31=GS-4B @ 2355 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 17														DEC 18													

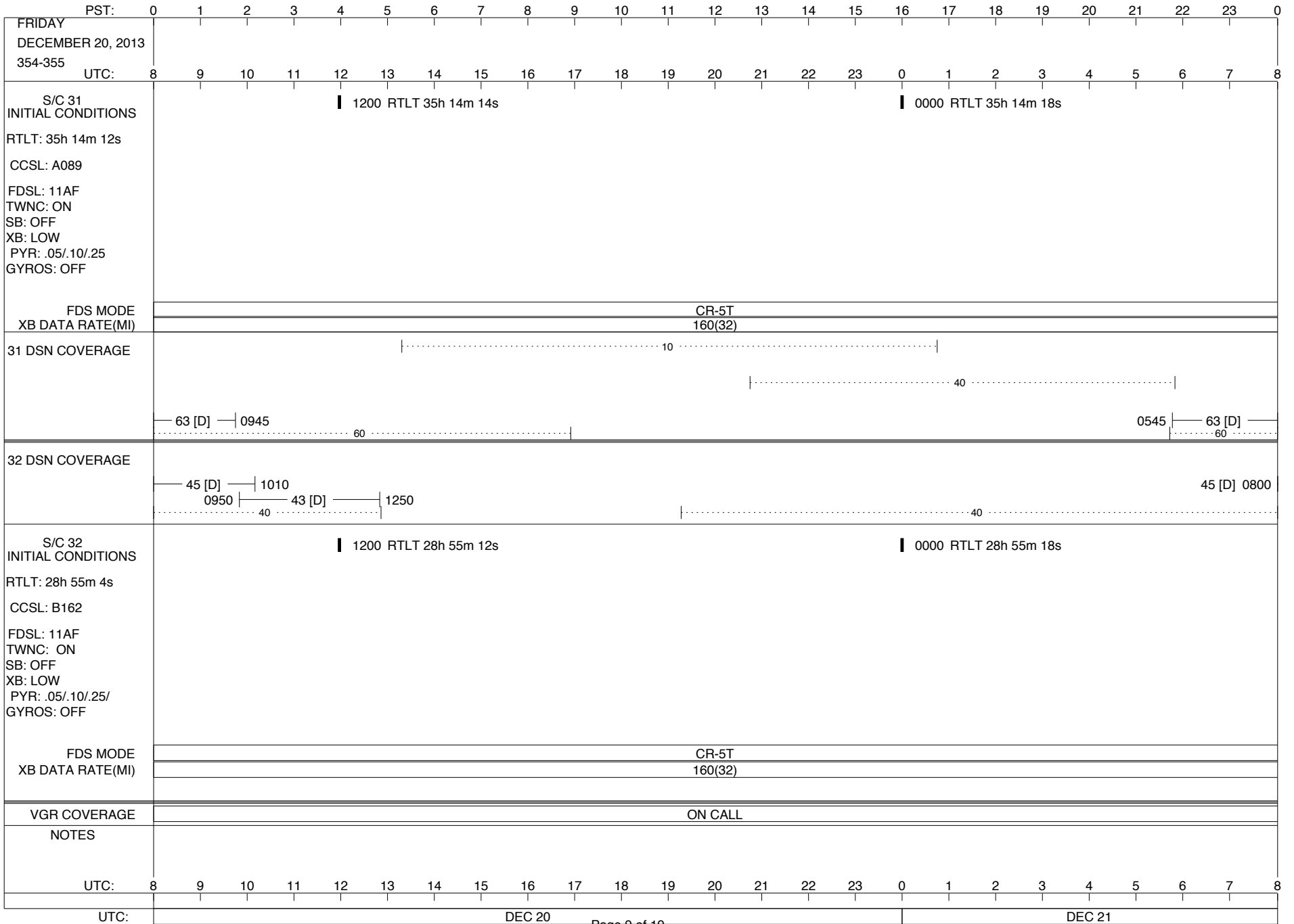
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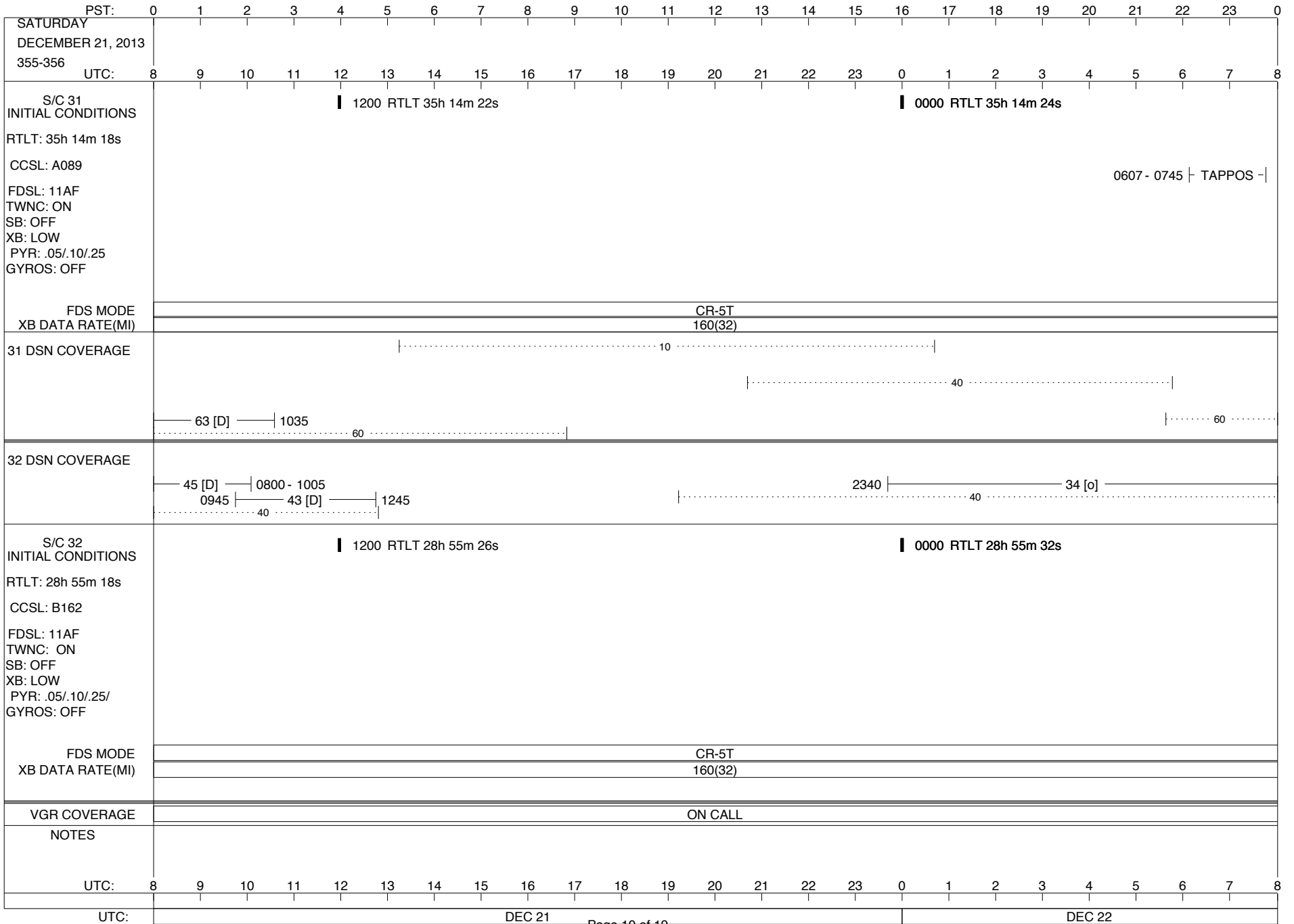
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SUNDAY DECEMBER 22, 2013 356-357		PST: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0																							
UTC: 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 8																									
S/C 31 INITIAL CONDITIONS RTLTL: 35h 14m 24s CCSL: A089 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLTL 35h 14m 28s												0000 RTLTL 35h 14m 30s											
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)												CR-5T 160(32)											
31 DSN COVERAGE		<p>0908 0909 PWS/RH U/L 2125 - - - - - - TLC (SHORT-FORM) - - - - -</p> <p>0920 - TAPPOS - 1112</p> <p>↓ 0908 GS-4B 0909</p> <p>1310 ----- 14 [D] ----- 1710</p> <p>2055 ----- 14 [T] ----- 0035</p> <p>..... 10 40 60 0535 ----- 63 [D] -----</p> <p>..... 60 60</p>																							
32 DSN COVERAGE		<p>34 [o] ----- 1000</p> <p>..... 40 40 0600 ----- 45 [D] -----</p>																							
S/C 32 INITIAL CONDITIONS RTLTL: 28h 55m 32s CCSL: B162 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF		1200 RTLTL 28h 55m 38s												0000 RTLTL 28h 55m 46s											
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)												CR-5T 160(32)											
VGR COVERAGE		ON CALL																							
NOTES		[1] S/C 31=GS-4B @ 0908 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 22												DEC 23											

ISSUE DATE: 12/16/13 15:59

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			
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S/C 31 INITIAL CONDITIONS RTLT: 35h 14m 30s CCSL: A089 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 14m 32s												0000 RTLT 35h 14m 36s															
----- TLC (SHORT-FORM) -----																												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)															
31 DSN COVERAGE10.....											40.....															
63 [D] 0935												0530 63 [D]																
.....60.....											60.....																
32 DSN COVERAGE	45 [D] 1000												0030 - 0745 45 [D]															
.....40.....											40.....																
S/C 32 INITIAL CONDITIONS RTLT: 28h 55m 46s CCSL: B162 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 28h 55m 52s												0000 RTLT 28h 55m 58s															
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												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			
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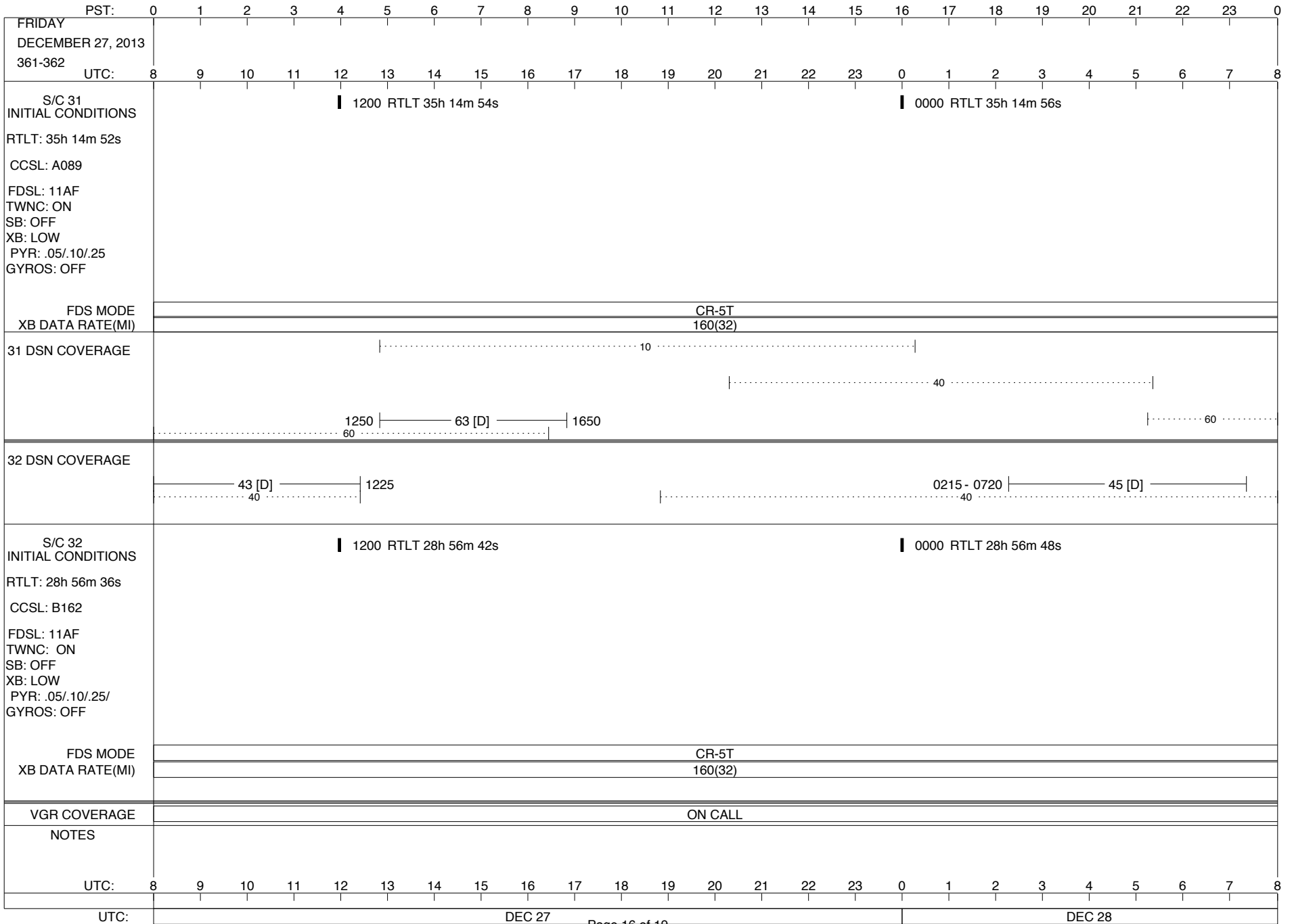
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TUESDAY DECEMBER 24, 2013 358-359	UTC: 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLTL: 35h 14m 36s CCSL: A089 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 35h 14m 38s												0000 RTLTL 35h 14m 42s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	63 [D] 1115												1955 14 [D] 0025												
32 DSN COVERAGE	40												40 0415 43 [D]												
S/C 32 INITIAL CONDITIONS RTLTL: 28h 55m 58s CCSL: B162 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 28h 56m 4s												0000 RTLTL 28h 56m 10s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE	ON CALL																								
NOTES	[1] S/C 31=GS-4B @ 2331 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 24												DEC 25												

ISSUE DATE: 12/16/13 15:59

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WEDNESDAY																										
DECEMBER 25, 2013																										
359-360																										
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 42s CCSL: A089 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF FDS MODE XB DATA RATE(MI)																										
1200 RTLT 35h 14m 44s 0000 RTLT 35h 14m 46s CR-5T 160(32)																										
31 DSN COVERAGE																										
.....10.....40.....63 [D] 1155.....60.....60.....																										
32 DSN COVERAGE																										
.....43 [D] 1230.....0225 - 072043 [D]40.....40.....																										
S/C 32 INITIAL CONDITIONS RTLT: 28h 56m 10s CCSL: B162 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF FDS MODE XB DATA RATE(MI)																										
1200 RTLT 28h 56m 18s 0000 RTLT 28h 56m 24s 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: DEC 25														UTC: DEC 26												

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>0215 ----- 43 [D] ----- 0515</p> <p>..... ----- 40 ----- </p> <p>.....60..... </p> <p>.....60.....</p>																								
32 DSN COVERAGE	<p>.....40..... </p> <p>..... ----- 40 ----- </p> <p>.....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	[1] S/C 31=GS-4B @ 0545 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:	DEC 26												DEC 27												

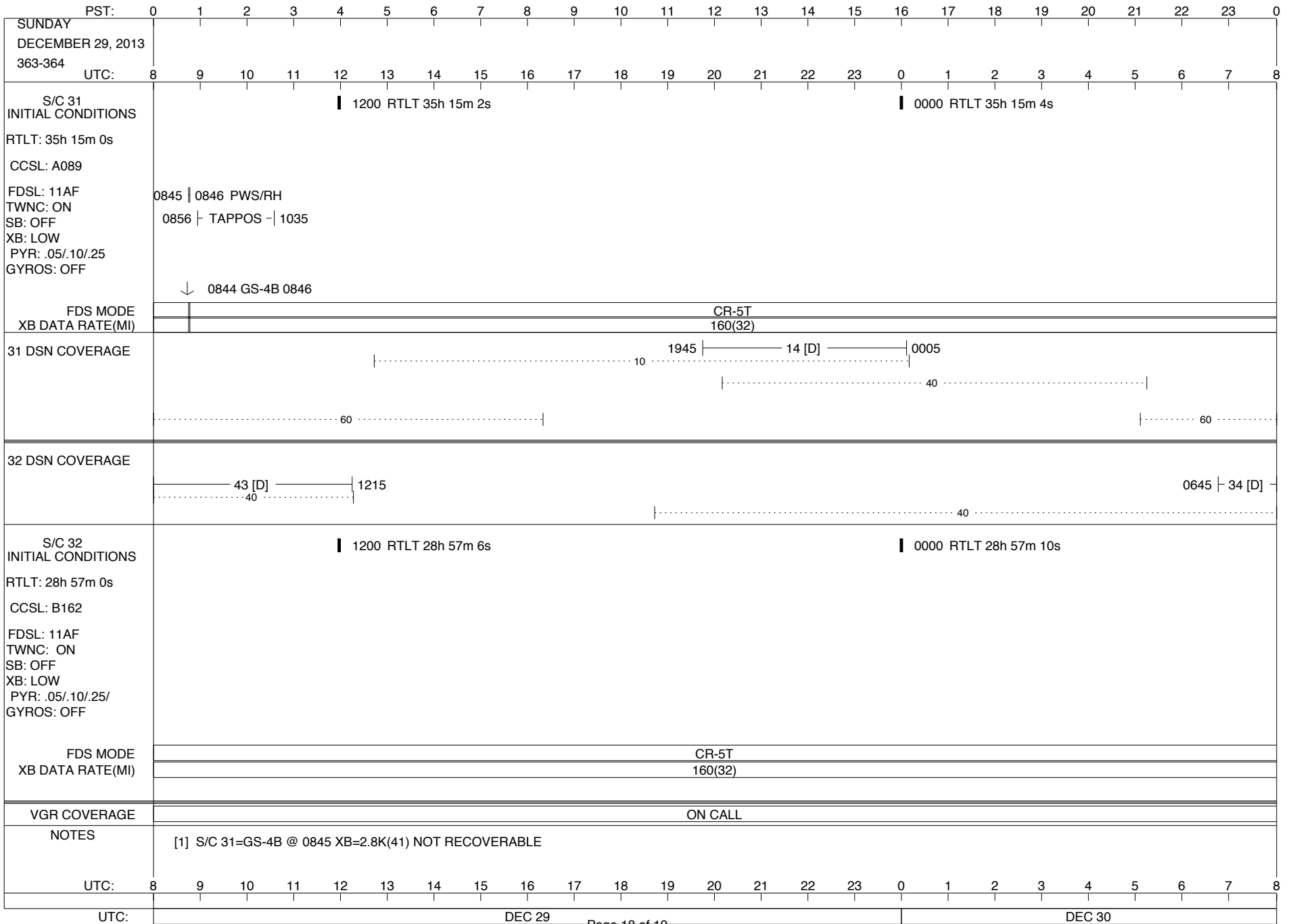
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ISSUE DATE: 12/16/13 15:59

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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												----- 40 -----													
	60 -----												----- 60 -----													
32 DSN COVERAGE	1005 ----- 43 [D] ----- 1220												----- 40 ----- 43 [D] 0755													
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	
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ISSUE DATE: 12/16/13 15:59



ISSUE DATE: 12/16/13 15:59

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 30, 2013 364-365																											
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 4s CCSL: A089 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> </div>																										
FDS MODE XB DATA RATE(MI)														<div style="text-align: center;"> CR-5T 160(32) </div>													
31 DSN COVERAGE														<div style="text-align: center;"> 1515 ----- 14 [D] ----- 2235 60 </div>													
32 DSN COVERAGE	<div style="text-align: center;"> 34 [D] ----- 0920 0900 ----- 43 [D] ----- 1215 40 </div>																										
S/C 32 INITIAL CONDITIONS RTLT: 28h 57m 10s CCSL: B162 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	<div style="text-align: center;"> </div>																										
FDS MODE XB DATA RATE(MI)														<div style="text-align: center;"> CR-5T 160(32) </div>													
VGR COVERAGE														<div style="text-align: center;"> ON CALL </div>													
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 30													DEC 31													