

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: November 29, 2017

For the Period: 11/30/17 to 12/18/17 (17/334 – 17/352)

DSN OPSCHIEF	230-102	SCIENCE	FLIGHT TEAM	600-100
DSOT	230-102	CRS bryant@mail630.gsfc.nasa.gov LECP r.decker@jhuapl.edu MAG u2mha@lepvax.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. Ko, A. Ledeboer, W. Ludwig, R. Matsumoto, S. Medina, E. Peralta, F. Weeks, T. Yang, L.	

**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

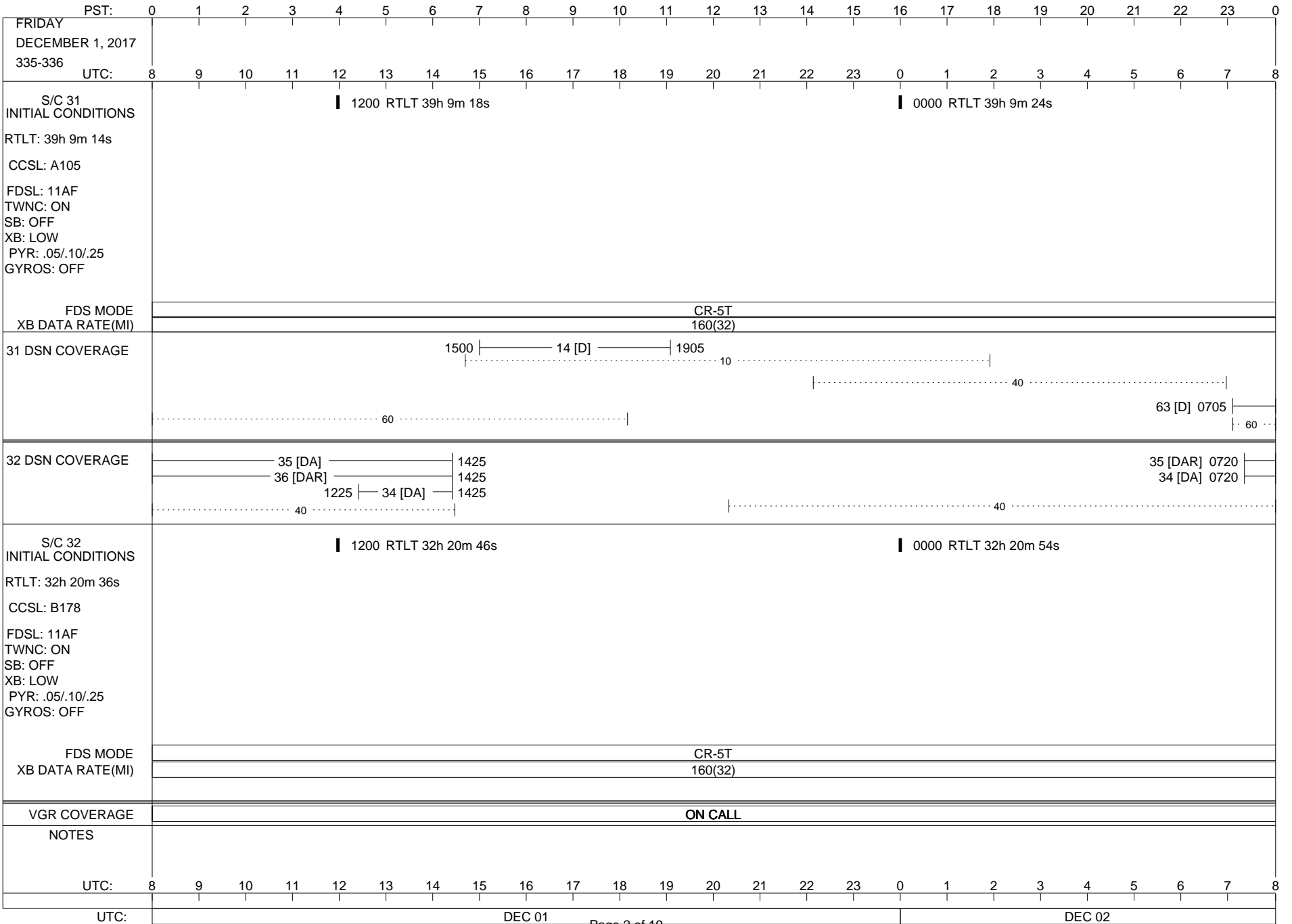
Posted at [http://voyager.jpl.nasa.gov/mission/soesfos/tracking\\_schedule.html](http://voyager.jpl.nasa.gov/mission/soesfos/tracking_schedule.html)

02/27/17

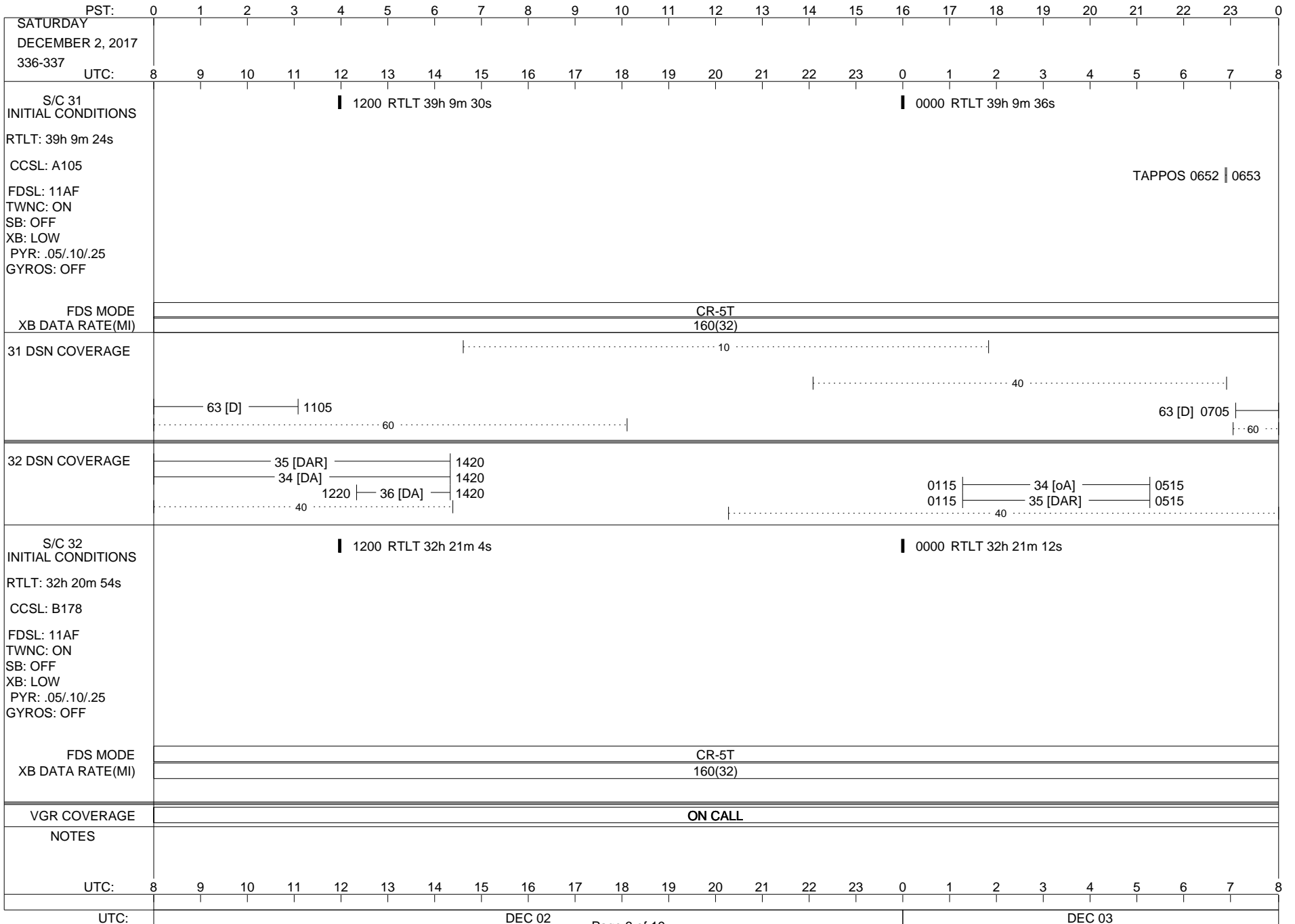
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THURSDAY NOVEMBER 30, 2017 334-335																										
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	
S/C 31 INITIAL CONDITIONS	1200 RTLT 39h 9m 8s												0000 RTLT 39h 9m 14s													
RTLTL: 39h 9m 2s																										
CCSL: A105																										
FDSL: 11AF																										
TWNC: ON																										
SB: OFF																										
XB: LOW																										
PYR: .05/10/25																										
GYROS: OFF																										
	-----  TLC (SHORT-FORM)   D/L -  1112																									
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	1200 RTLT 32h 20m 28s												0000 RTLT 32h 20m 36s													
RTLTL: 32h 20m 20s																										
CCSL: B178																										
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)													
VGR COVERAGE	ON CALL																									
NOTES	[1] S/C 31=GS-4B @ 0653 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													

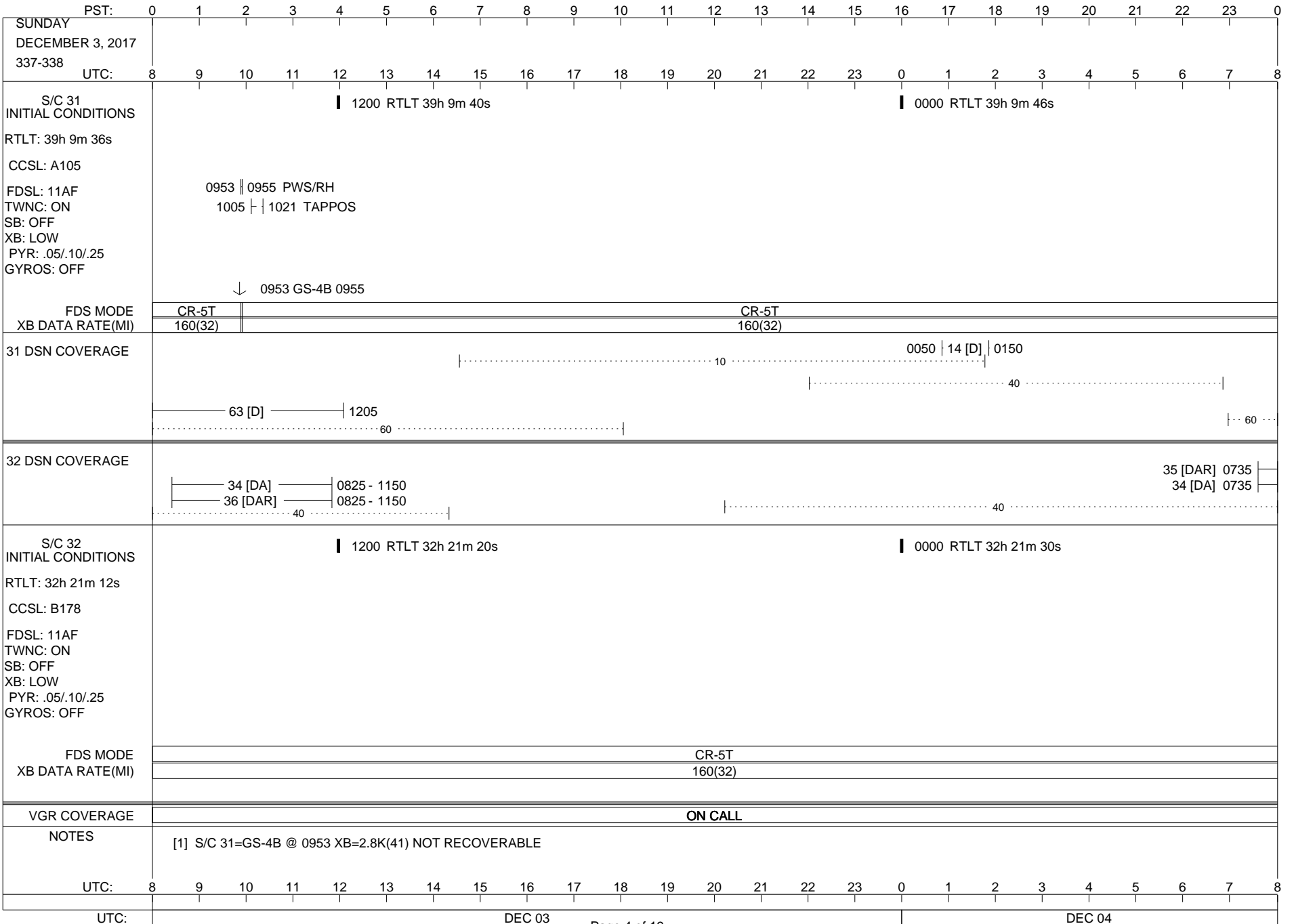
ISSUE DATE: 11/21/17 12:19



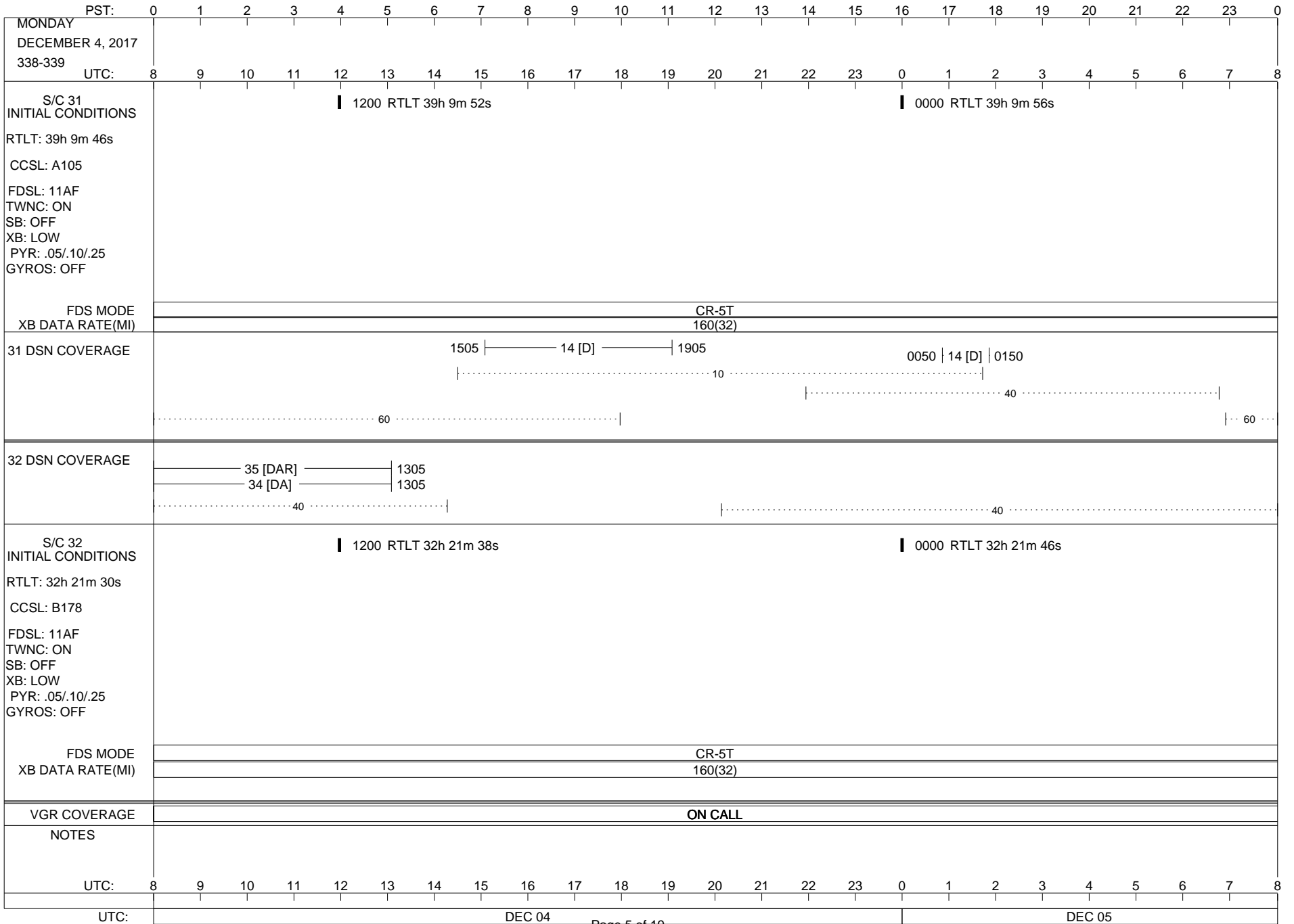
ISSUE DATE: 11/21/17 12:19



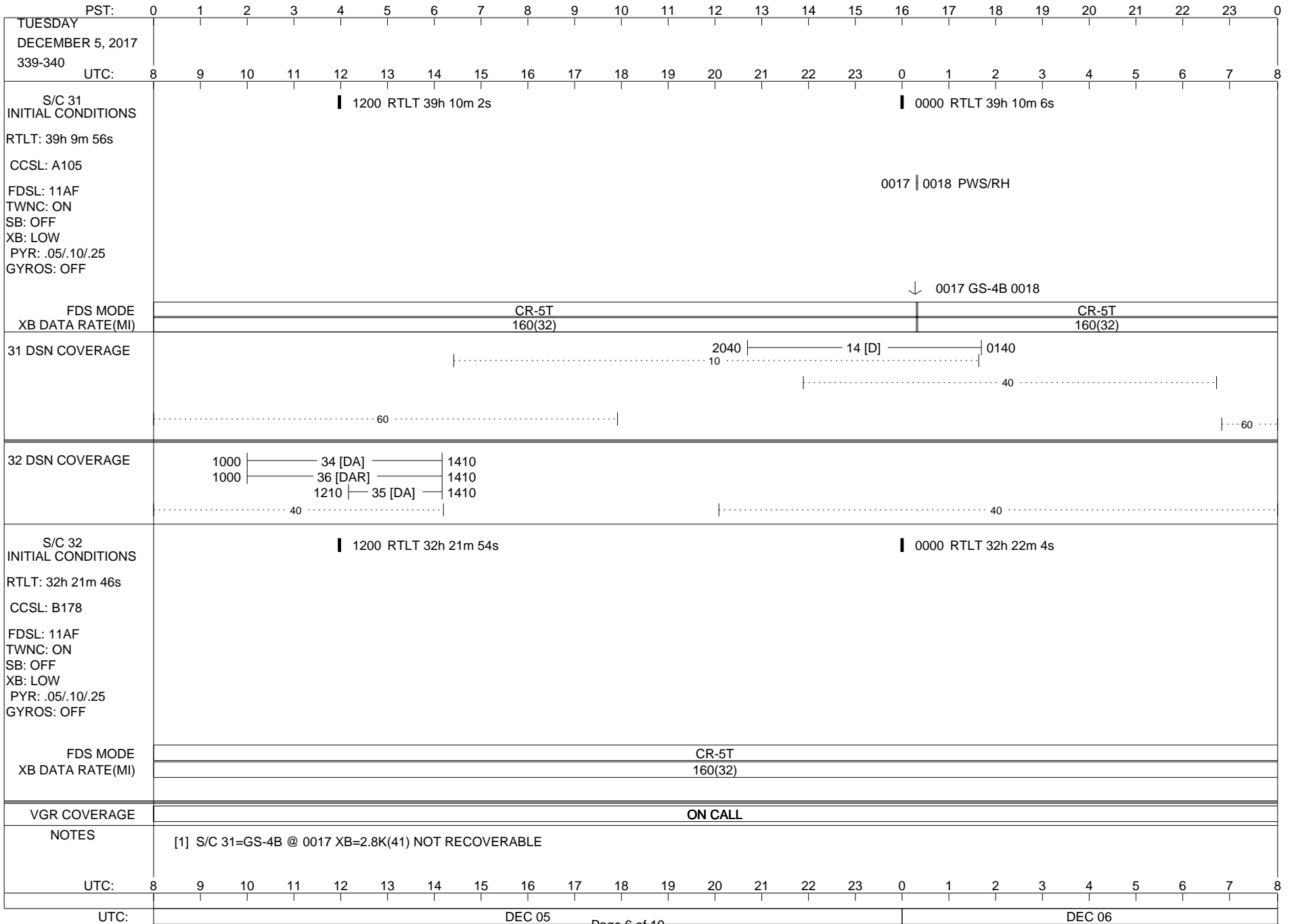
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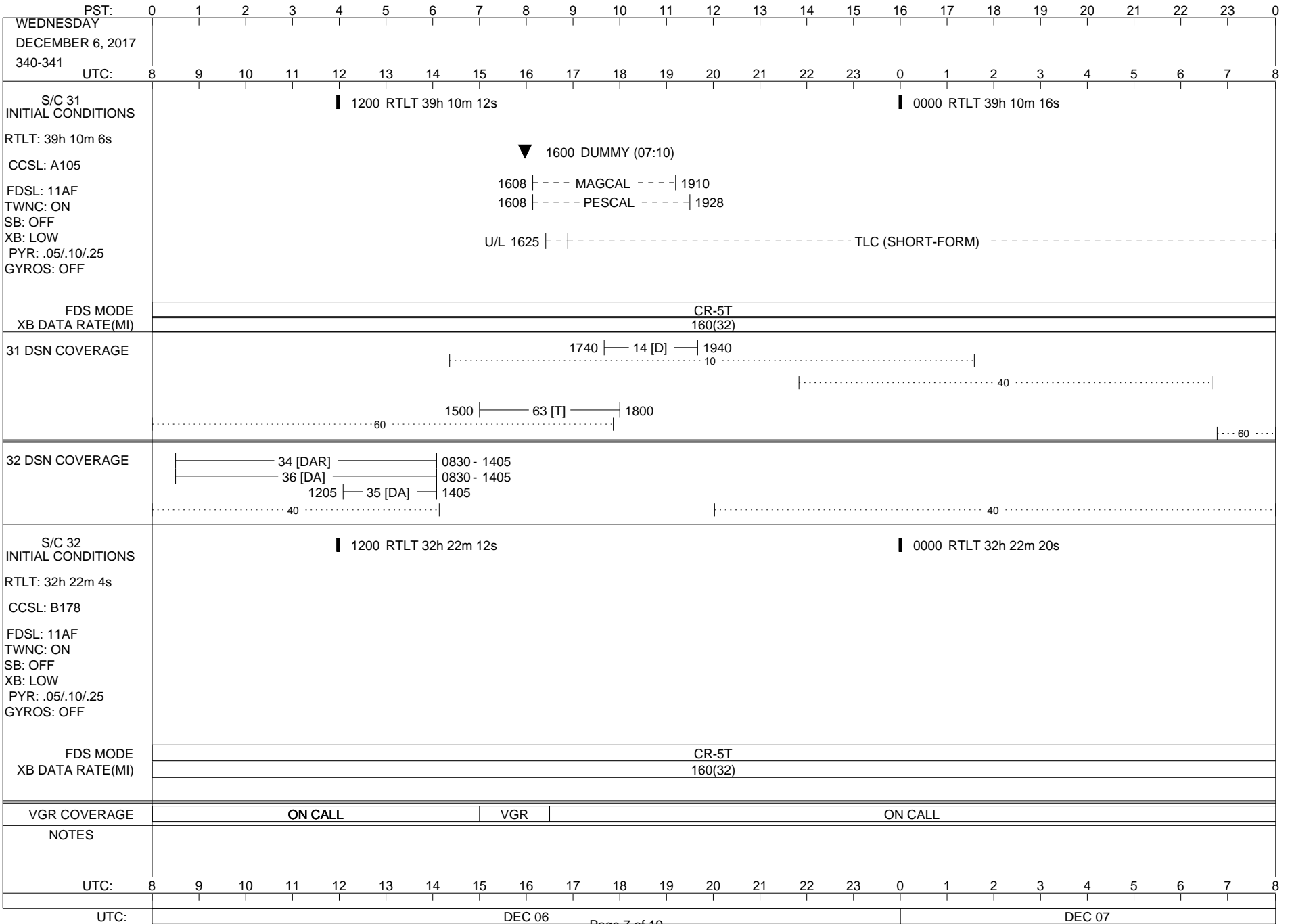
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ISSUE DATE: 11/21/17 12:19



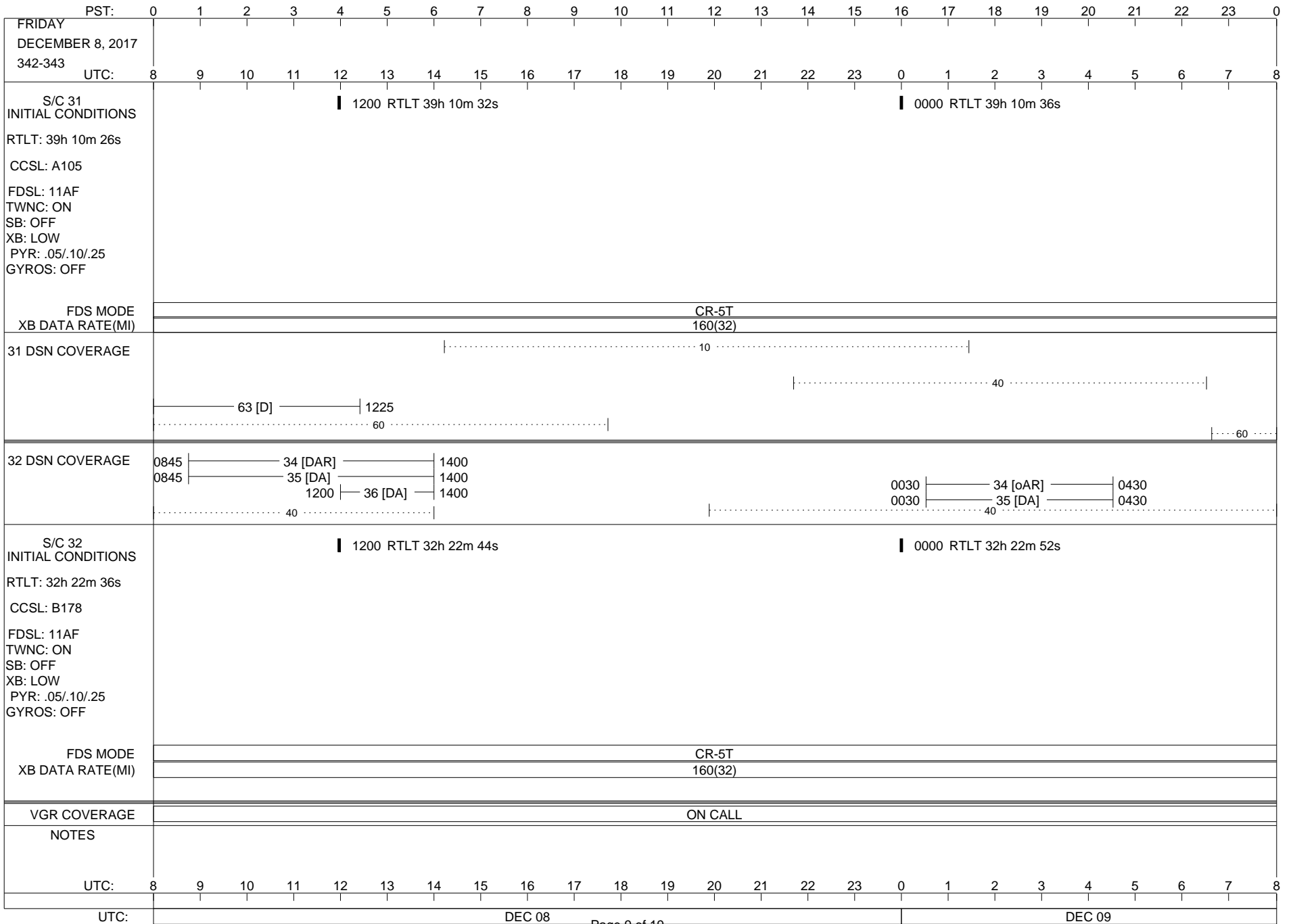
ISSUE DATE: 11/21/17 12:19



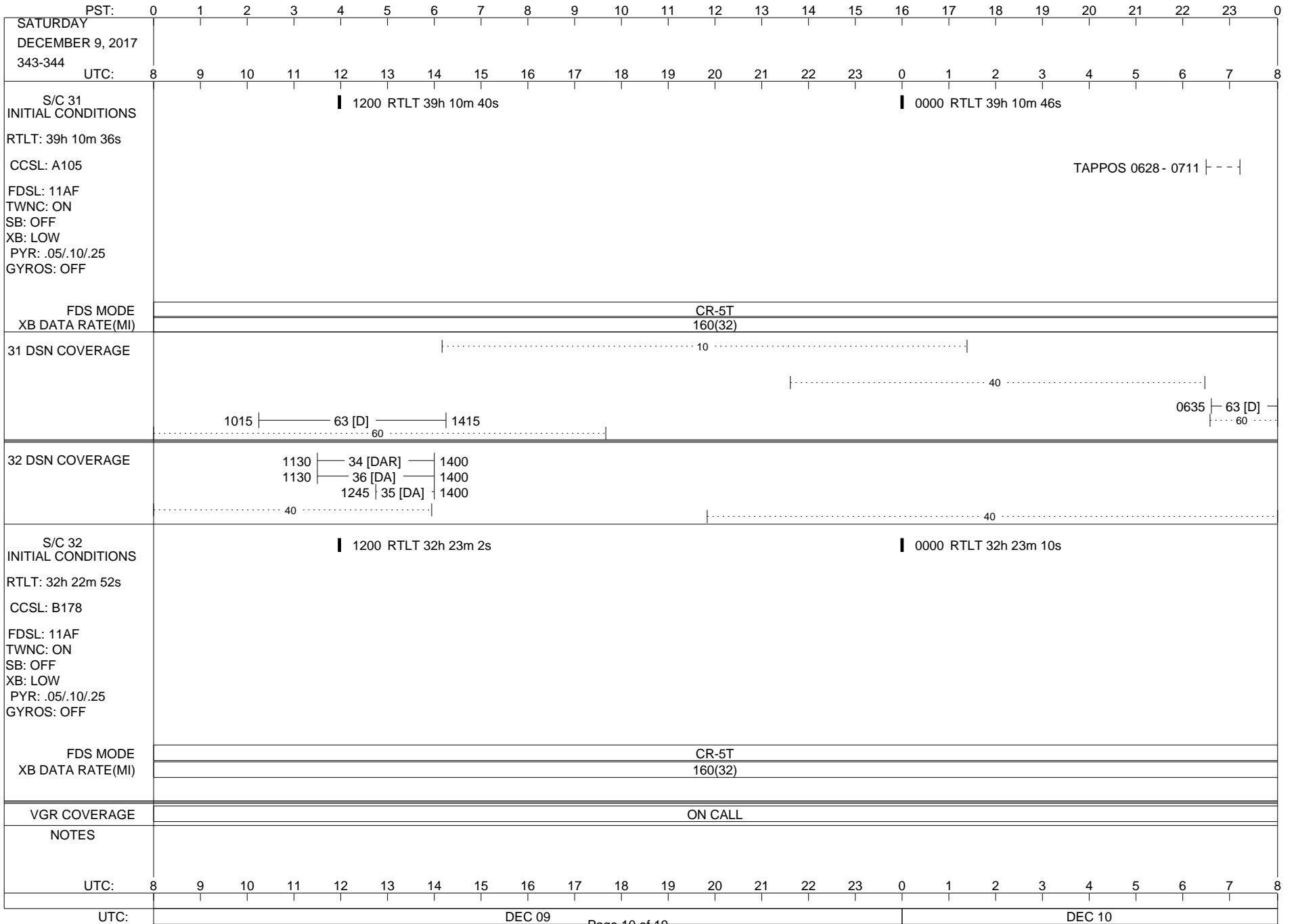


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THURSDAY DECEMBER 7, 2017 341-342																												
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8			
S/C 31 INITIAL CONDITIONS RTLTL: 39h 10m 16s CCSL: A105 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 39h 10m 22s														0000 RTLTL 39h 10m 26s													
TLC (SHORT-FORM)																												
0328   -   0357 TAPPOS PWS/RH 0630   0631 TAPPOS 0642 - 0725   - - -   - 0735   D/L -   0630 GS-4B 0631 ↓																												
FDS MODE	CR-5T																										CR-5T	
XB DATA RATE(MI)	160(32)																										160(32)	
31 DSN COVERAGE	<p>..... .....10..... .....</p> <p>1420   54 [DA]   1535   .....40..... </p> <p>1420   ..... 1535 55 [DAR]  </p> <p>1530   ..... 63 [D] .....   1820</p> <p>.....60..... </p> <p>0645   63 [D]  </p> <p>.....60..... </p>																											
32 DSN COVERAGE	<p>0910   ..... 34 [DA] .....   1400</p> <p>0910   ..... 36 [DAR] .....   1400</p> <p>1200   ..... 35 [DA] .....   1400</p> <p>.....40..... </p> <p>0105   ..... 0155 34 [DAR]  </p> <p>0105   ..... 0155 36 [DA]  </p> <p>.....40..... </p>																											
S/C 32 INITIAL CONDITIONS RTLTL: 32h 22m 20s CCSL: B178 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 32h 22m 28s														0000 RTLTL 32h 22m 36s													
0112    0119 CCSTIMB FINE																												
FDS MODE	CR-5T																											
XB DATA RATE(MI)	160(32)																											
VGR COVERAGE	ON CALL																											
NOTES	[1] S/C 31=GS-4B @ 0630 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: 11/21/17 12:19



ISSUE DATE: 11/21/17 12:19



ISSUE DATE: 11/21/17 12:19

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 10, 2017																										
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: 39h 10m 46s

CCSL: A105

FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLT 39h 10m 50s

0930 || 0932 PWS/RH  
0942 |----| 1039 TAPPOS

0000 RTLT 39h 10m 54s

↓ 0930 GS-4B 0932

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

31 DSN COVERAGE

63 [D] 1035

60

40

0630 63 [D] 60

32 DSN COVERAGE

34 [DA] 0830 - 1350

35 [DAR] 0830 - 1350

1150 36 [DA] 1350

40

35 [DA] 0740

36 [DAR] 0740

S/C 32  
INITIAL CONDITIONS

RTLT: 32h 23m 10s

CCSL: B178

FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLT 32h 23m 18s

0000 RTLT 32h 23m 24s

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

VGR COVERAGE

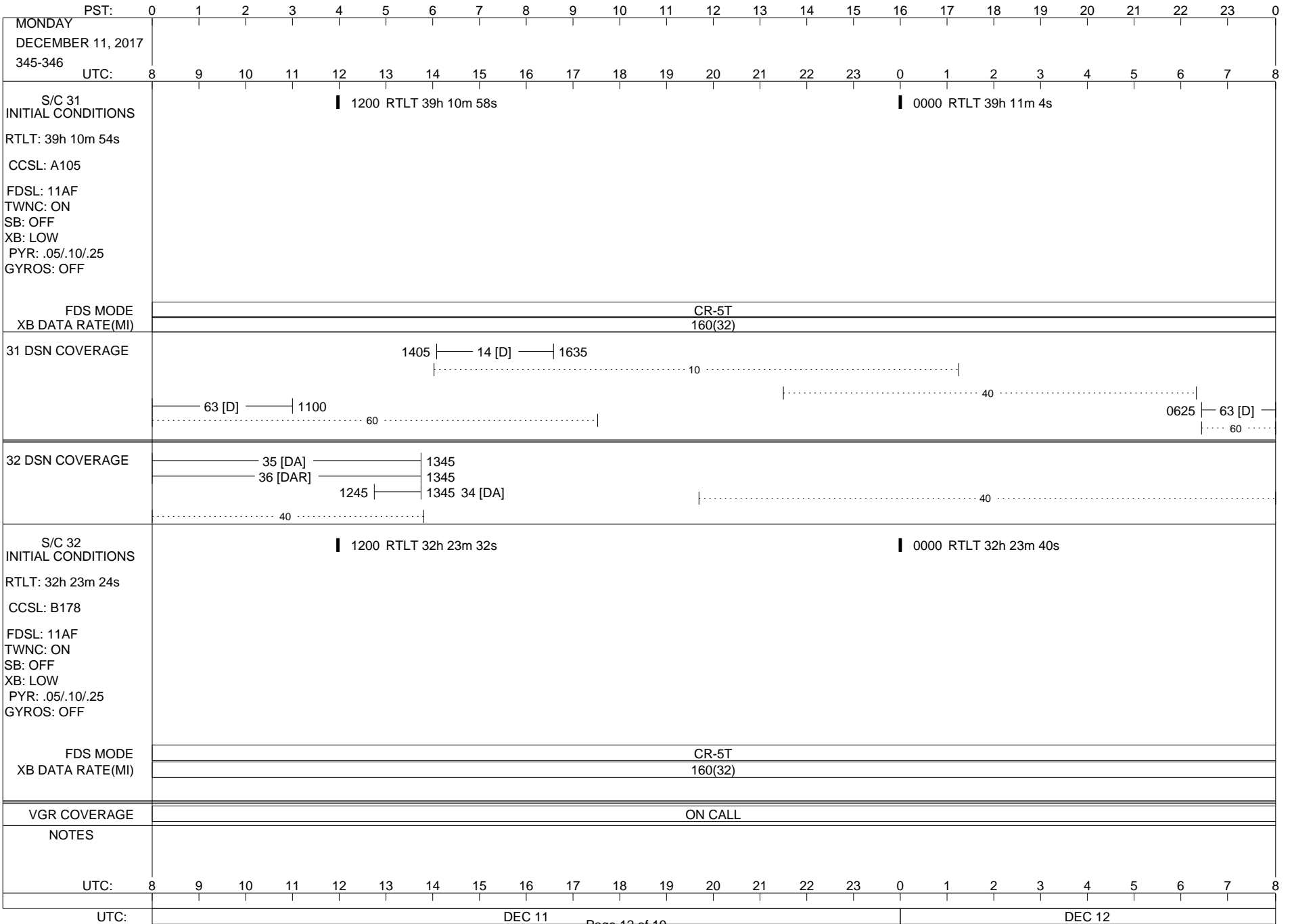
ON CALL

NOTES

[1] S/C 31=GS-4B @ 0930 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 10														DEC 11										

ISSUE DATE: 11/21/17 12:19



ISSUE DATE: 11/21/17 12:19

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 12, 2017  
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  
RTLT: 39h 11m 4s  
CCSL: A105  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF  
1200 RTLT 39h 11m 8s  
0000 RTLT 39h 11m 12s  
2353 | 2354 PWS/RH  
↓ 2353 GS-4B 2354

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

31 DSN COVERAGE  
63 [D] | 1025  
60  
40  
60

32 DSN COVERAGE  
0855 | 35 [DA] | 1255  
0855 | 36 [DAR] | 1255  
40  
0115 | 35 [DAR] | 0515  
0115 | 36 [DAR] | 0515  
34 [DA] 0750  
35 [DAR] 0750  
40

S/C 32  
INITIAL CONDITIONS  
RTLT: 32h 23m 40s  
CCSL: B178  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF  
1200 RTLT 32h 23m 48s  
0000 RTLT 32h 23m 56s  
0121 | PLSCAL - | 0303  
0121 | --- MAGCAL --- | 0423  
0121 | --- PESCAL --- | 0441

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

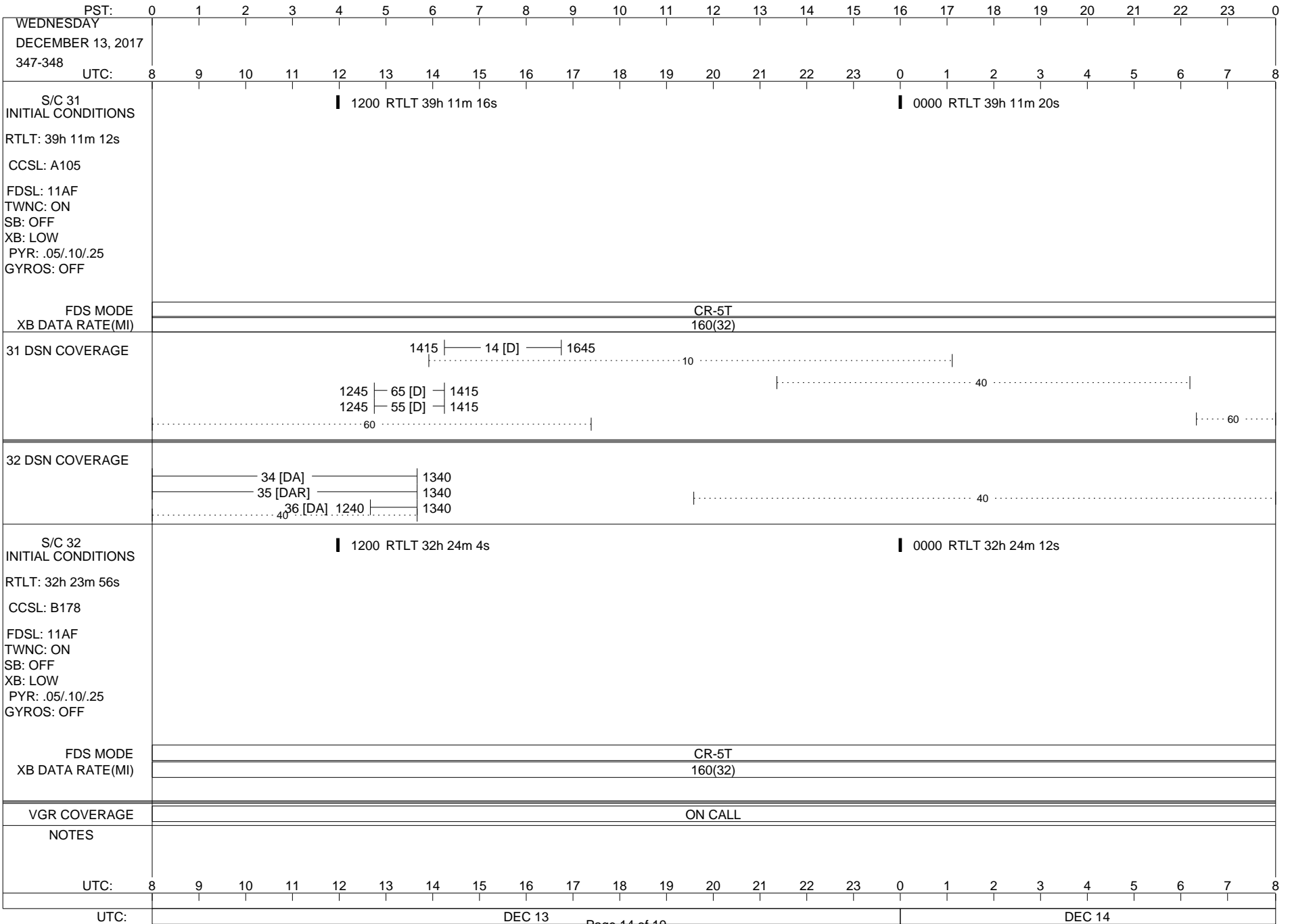
VGR COVERAGE  
ON CALL

NOTES  
[1] S/C 31=GS-4B @ 2353 XB=2.8K(41) NOT RECOVERABLE

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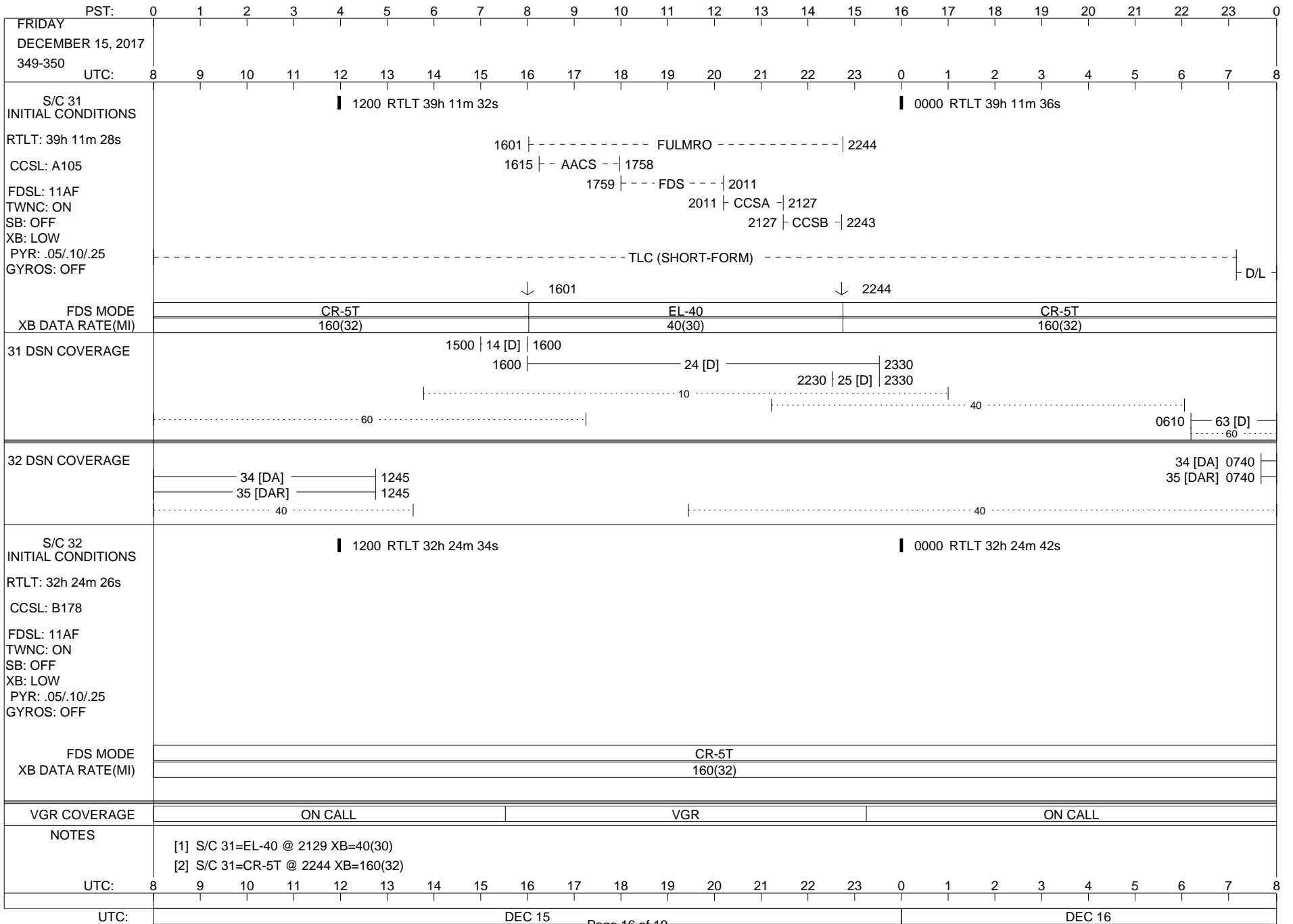
UTC: DEC 12 DEC 13

ISSUE DATE: 11/21/17 12:19

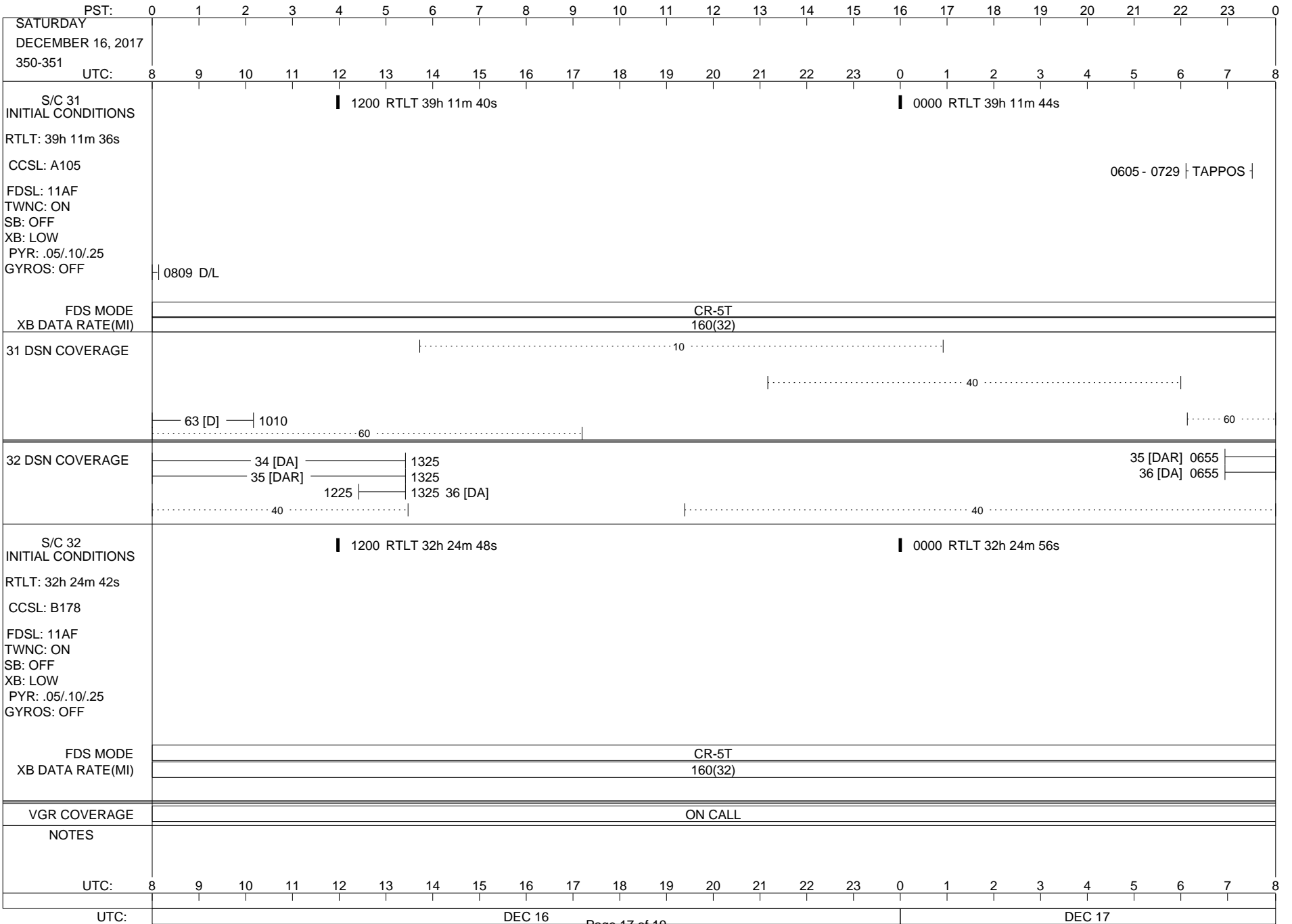








ISSUE DATE: 11/21/17 12:19



ISSUE DATE: 11/21/17 12:19

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 17, 2017 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 RTLTL: 39h 11m 44s CCSL: A105 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 39h 11m 46s												█ 0000 RTLTL 39h 11m 50s												
	0907   0908 PWS/RH 0918   TAPPOS -   1057																								
	↓ 0906 GS-4B 0908																								
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	1340  -----  14 [D]  -----  1740												-----  10  -----  40  -----  0620  -----  63 [D]  -----  60												
32 DSN COVERAGE	35 [DAR]  -----  1320 36 [DA]  -----  1320 1220  -----  1320 34 [DA]												-----  40  -----  40												
S/C 32 INITIAL CONDITIONS RTLTL: 32h 24m 56s CCSL: B178 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 32h 25m 4s												█ 0000 RTLTL 32h 25m 10s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE													ON CALL												
NOTES	[1] S/C 31=GS-4B @ 0906 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												

ISSUE DATE: 11/21/17 12:19

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 18, 2017 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: 39h 11m 50s CCSL: A105 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 39h 11m 54s</p> </div>																								
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	<div style="text-align: center;"> <p>1335  -----  14 [D]  -----  1735</p> <p>0840 63 [D]</p> <p>..... 60 .....</p> </div>																								
32 DSN COVERAGE	<div style="text-align: center;"> <p>0915  -----  34 [DAR]  -----  1320</p> <p>0915  -----  35 [DA]  -----  1320</p> <p>1220  -----  1320 36 [DA]</p> <p>..... 40 .....</p> </div>																								
S/C 32 INITIAL CONDITIONS RTLT: 32h 25m 10s CCSL: B178 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 32h 25m 18s</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 18												DEC 19												