

VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: December 5, 2018

For the Period: 12/06/18 to 12/24/18 (18/340 – 18/358)

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

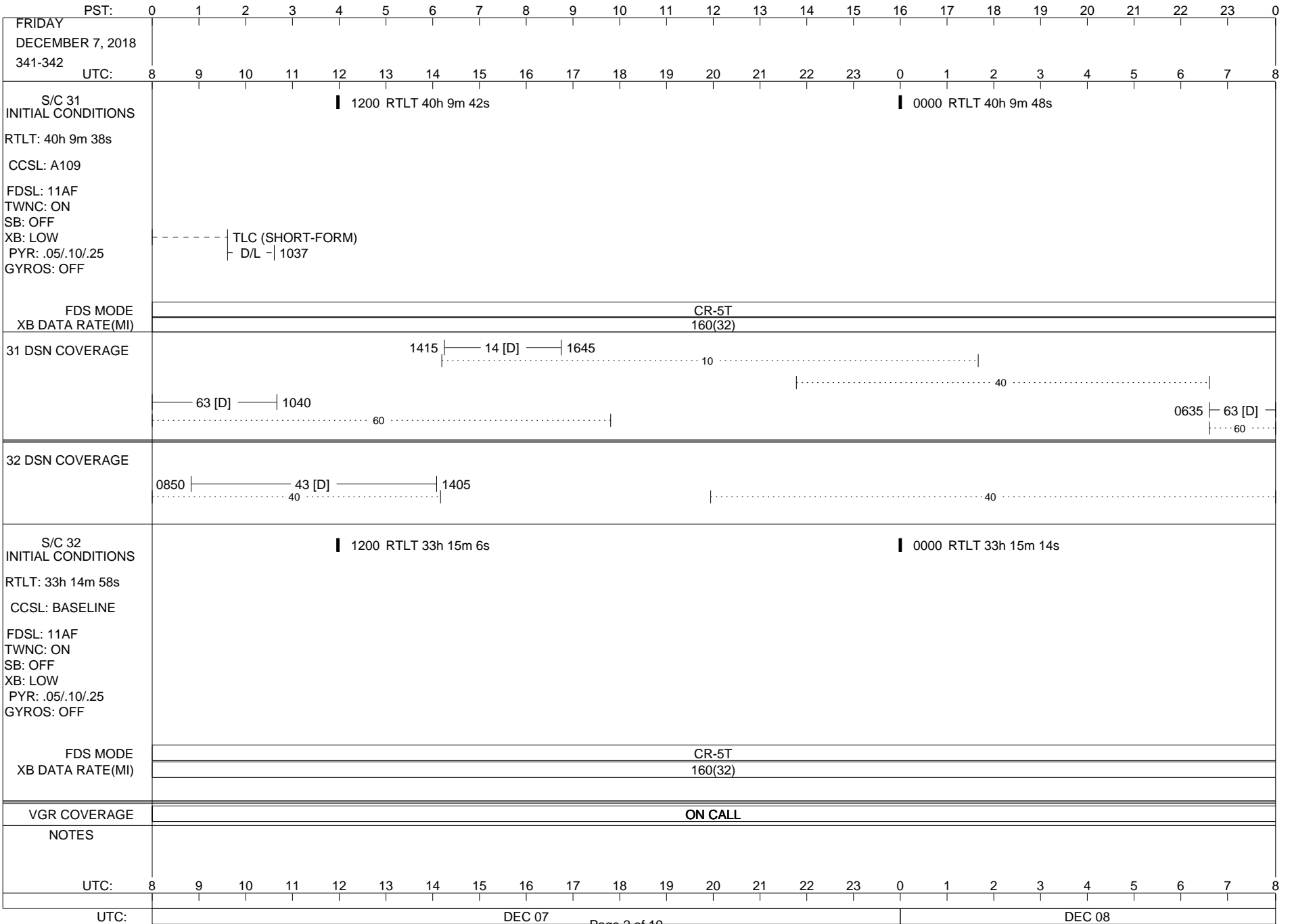
Posted at http://voyager.jpl.nasa.gov/mission/soesfos/tracking_schedule.html

02/27/17

ISSUE DATE: 12/11/18 08:53

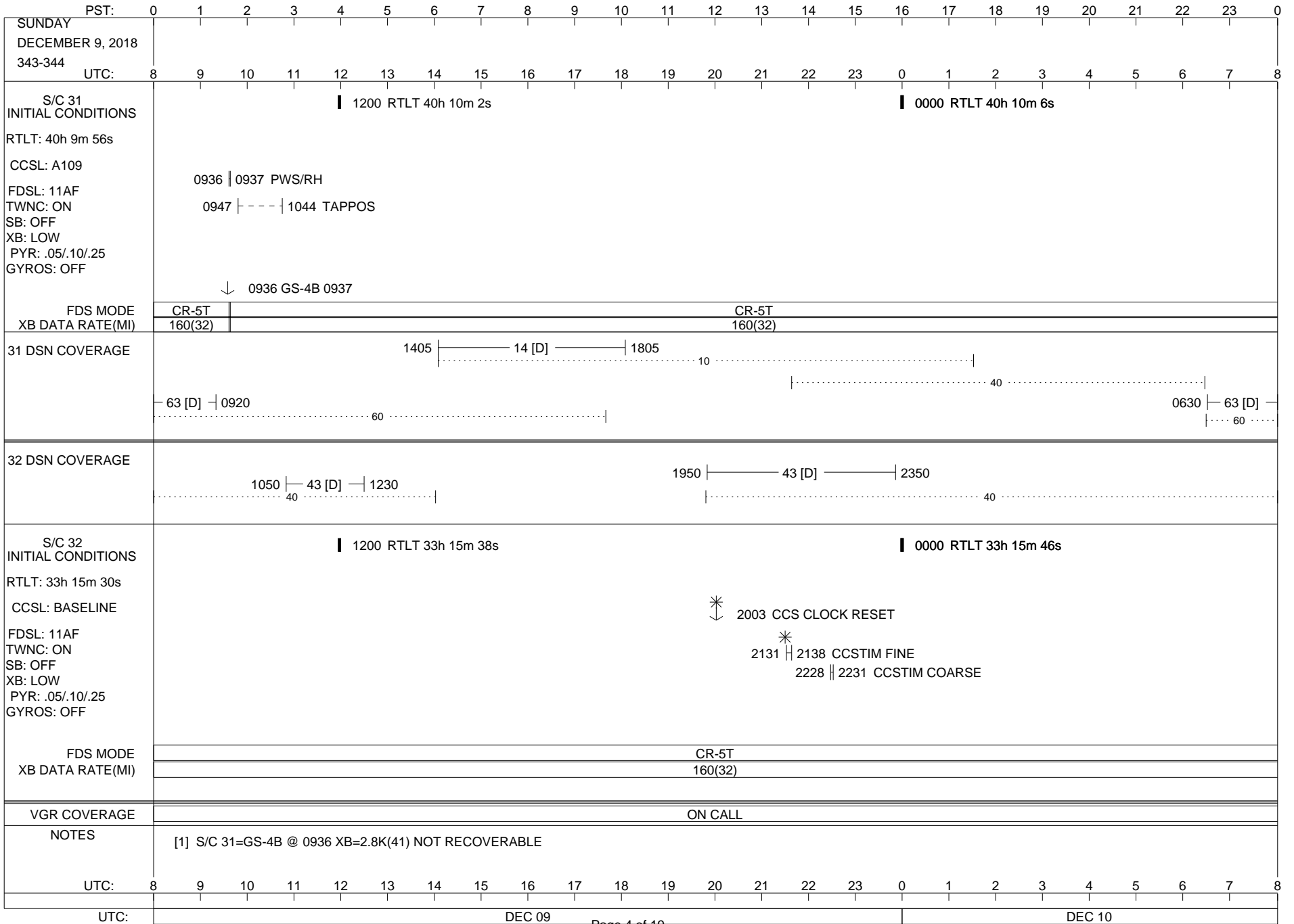
PST:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0
THURSDAY DECEMBER 6, 2018 340-341	UTC: 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLTL: 40h 9m 28s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 40h 9m 32s												0000 RTLTL 40h 9m 38s												
	0334 | - | 0403 TAPPOS PWS/RH 0635 | 0637 TAPPOS 0647 - 0730 | - - |																								
	----- TLC (SHORT-FORM) -----																								
	0635 GS-4B 0637 ↓																								
FDS MODE	CR-5T											CR-5T													
XB DATA RATE(MI)	160(32)											160(32)													
31 DSN COVERAGE	| ..... 10 ..... |																								
	63 [D] | 0800 - 1005 | ..... 40 ..... |											0640 | 63 [D] |													
	1005 | 55 [DAR] | 1145											| ..... 60 ..... |													
	1005 | 65 [DA] | 1145											| ..... 60 ..... |													
32 DSN COVERAGE	| ..... 40 ..... |																								
	1015 | ..... 43 [D] ..... | 1415											| ..... 40 ..... |													
S/C 32 INITIAL CONDITIONS RTLTL: 33h 14m 42s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 33h 14m 50s												0000 RTLTL 33h 14m 58s												
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 @ 0635 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 06											DEC 07													

ISSUE DATE: 12/11/18 08:53

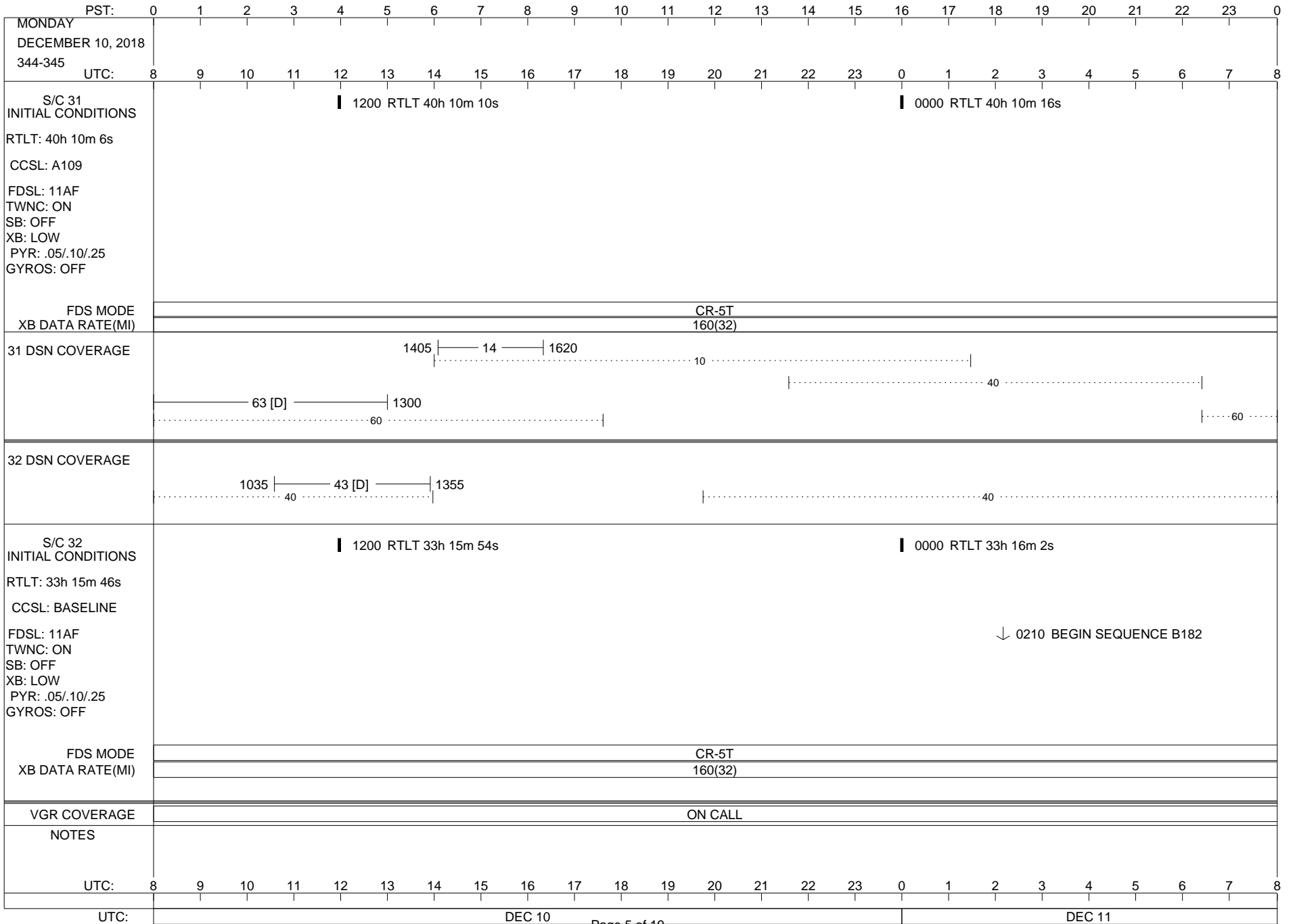


ISSUE DATE: 12/11/18 08:53

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 8, 2018 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: 40h 9m 48s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		█ 1200 RTLTL 40h 9m 52s														█ 0000 RTLTL 40h 9m 56s													
FDS MODE XB DATA RATE(MI)																CR-5T 160(32)													
31 DSN COVERAGE																													
32 DSN COVERAGE																													
S/C 32 INITIAL CONDITIONS RTLTL: 33h 15m 14s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		█ 1200 RTLTL 33h 15m 22s														█ 0000 RTLTL 33h 15m 30s													
FDS MODE XB DATA RATE(MI)																CR-5T 160(32)													
VGR COVERAGE		ON CALL								VGR								ON CALL											
NOTES		[1] HP DRV OFF <= 12:40																											
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 08														DEC 09													



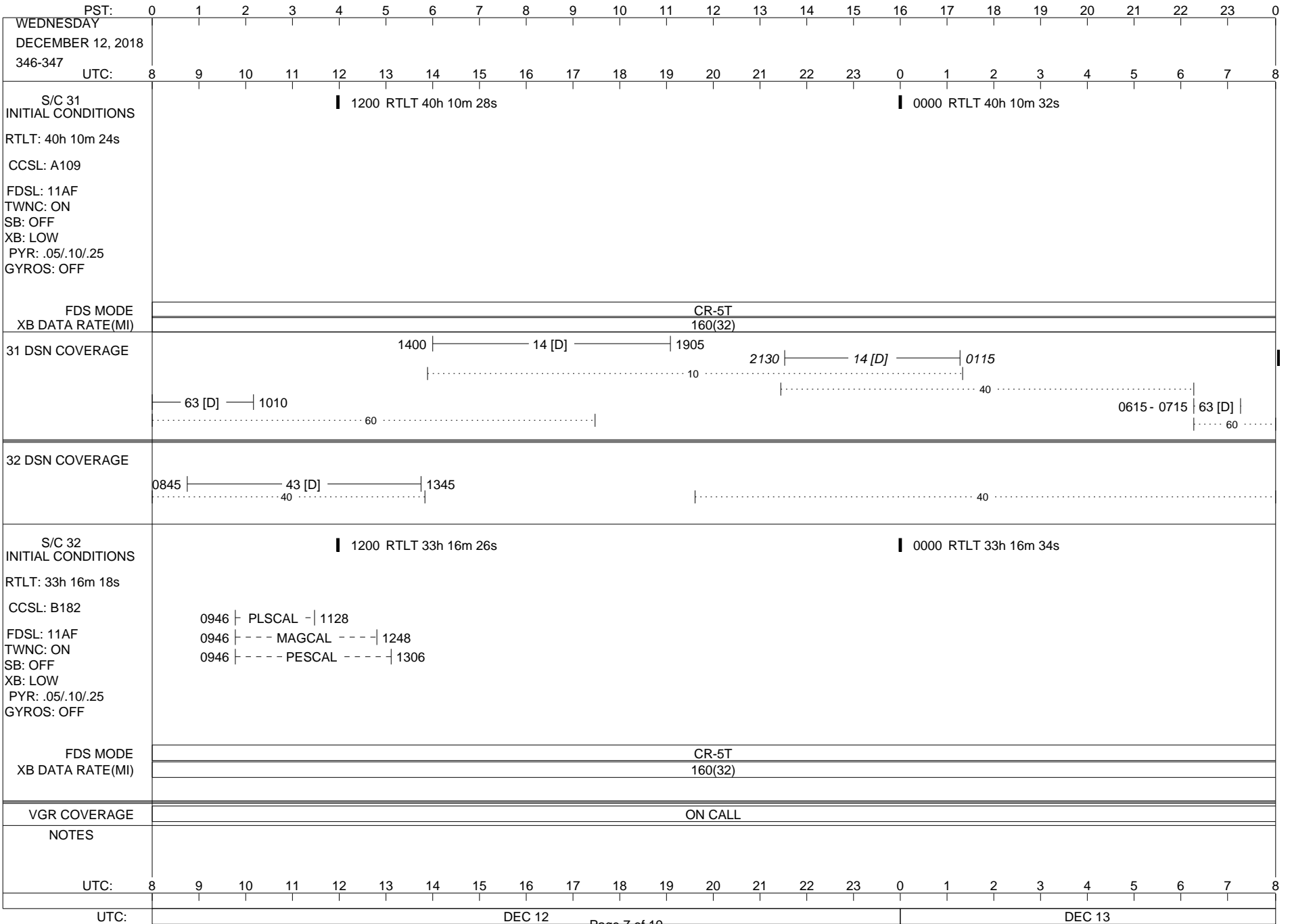
ISSUE DATE: 12/11/18 08:53



ISSUE DATE: 12/11/18 08:53

TUESDAY DECEMBER 11, 2018 345-346		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: 40h 10m 16s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLTL 40h 10m 20s</p> <p>0000 RTLTL 40h 10m 24s</p> <p>2359 | 0000 PWS/RH</p> <p>↓ 2359 GS-4B 0000</p>	
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)	CR-5T 160(32)
31 DSN COVERAGE	<p>1140 |----- 63 [D] -----| 1705</p> <p>60</p> <p>10</p> <p>40</p> <p>0620 |----- 63 [D] -----|</p> <p>60</p>	
32 DSN COVERAGE	<p>1045 |----- 43 [D] -----| 1350</p> <p>40</p> <p>40</p>	
S/C 32 INITIAL CONDITIONS RTLTL: 33h 16m 2s CCSL: B182 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLTL 33h 16m 10s</p> <p>0000 RTLTL 33h 16m 18s</p>	
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)	
VGR COVERAGE	ON CALL	
NOTES	[1] S/C 31=GS-4B @ 2359 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: 12/11/18 08:53



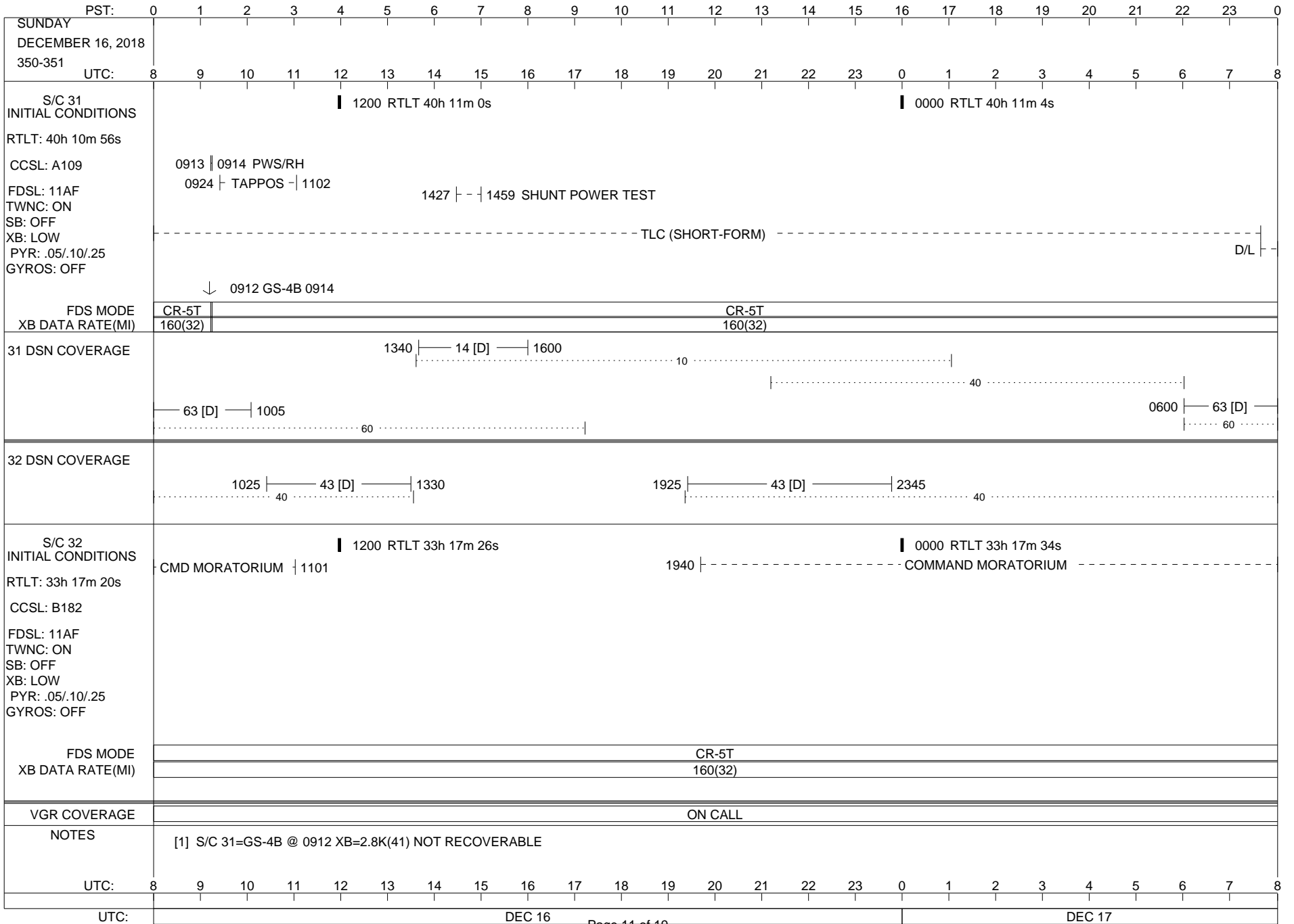
ISSUE DATE: 12/11/18 08:53

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, 2018 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: 40h 10m 32s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 40h 10m 36s												0000 RTLTL 40h 10m 40s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	1350 |----- 14 [D] -----| 1745												10 .....|----- 40 .....|												
	.....|----- 60 .....|												.....|----- 60 .....|												
32 DSN COVERAGE	1035 |----- 43 [D] -----| 1345												40 .....|----- 40 .....|												
S/C 32 INITIAL CONDITIONS RTLTL: 33h 16m 34s CCSL: B182 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 33h 16m 42s												0000 RTLTL 33h 16m 50s												
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 @ 0612 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 13												DEC 14												

ISSUE DATE: 12/11/18 08:53

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, 2018 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 RTLT: 40h 10m 40s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 10m 44s												0000 RTLT 40h 10m 48s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	63 [D] 0830 - 1115 60												10 40 60												
32 DSN COVERAGE	0850 43 [B] 1340 40												40												
S/C 32 INITIAL CONDITIONS RTLT: 33h 16m 50s CCSL: B182 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 16m 58s 1141												0000 RTLT 33h 17m 4s ----- CMD MORATORIUM -----												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE	VGR												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 14												DEC 15												

ISSUE DATE: 12/11/18 08:53



ISSUE DATE: 12/11/18 08:53

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, 2018 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 RTLT: 40h 11m 4s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 11m 8s												0000 RTLT 40h 11m 12s												
D/L | 0839																									
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	.....|.....10.....|.....												.....|.....40.....|.....												
	63 [D] | 1055												0555 | 63 [D] |												
	.....60.....|.....												.....60.....|.....												
32 DSN COVERAGE	1020 | 43 [D] | 1325												0425 | 34 [DA] | 0625 0425 | 36 [DAR] | 0625 0425 | 43 [DA] | 0625												
	.....40.....|.....												.....40.....|.....												
S/C 32 INITIAL CONDITIONS RTLT: 33h 17m 34s CCSL: B182 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 17m 42s												0000 RTLT 33h 17m 48s												
COMMAND MORATORIUM	-----																								
													BAY 1 HTR OFF 0428 ↓ GYROS BC ON 0428 ↓ GYRO FAULT TEST 0438 ↓ GYRO INIT 0429 ↓ AAI 0459 ↓ MAGROL 0502 | - | 0537 RAI 0541 ↓ CRU 0547 ↓ ↓ 0431 EL-40 0432												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
VGR COVERAGE	ON CALL												VGR						ON CALL						
NOTES	[1] S/C 32 - D/L AGC VARIATIONS EXPECTED DURING MAGROL (0428-0547)																								
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: 12/11/18 08:53

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 18, 2018 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: 40h 11m 12s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 11m 16s												0000 RTLT 40h 11m 18s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	.....|.....10.....|.....|.....40.....|.....|.....0555|.....63 [D].....|.....0955.....|.....60.....|.....												.....|.....40.....|.....|.....0555|.....63 [D].....|.....0955.....|.....60.....|.....												
32 DSN COVERAGE	0930|.....43 [o].....|.....1325.....|.....|.....0000 - 0715|.....40.....|.....36 [D].....|.....												.....|.....40.....|.....|.....0000 - 0715|.....40.....|.....36 [D].....|.....												
S/C 32 INITIAL CONDITIONS RTLT: 33h 17m 48s CCSL: B182 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: BC ON	1200 RTLT 33h 17m 56s												0000 RTLT 33h 18m 2s												
FDS MODE	CR-5T												EL-40												
XB DATA RATE(MI)	160(32)												40(30)												
VGR COVERAGE	ON CALL												VGR												
NOTES	[1] S/C 31=GS-4B @ 2335 XB=2.8K(41) NOT RECOVERABLE [2] S/C 32=EL-40 @ 0011 XB=40(30) [3] S/C 32=CR-5T @ 0654 XB=160(32)																								
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												

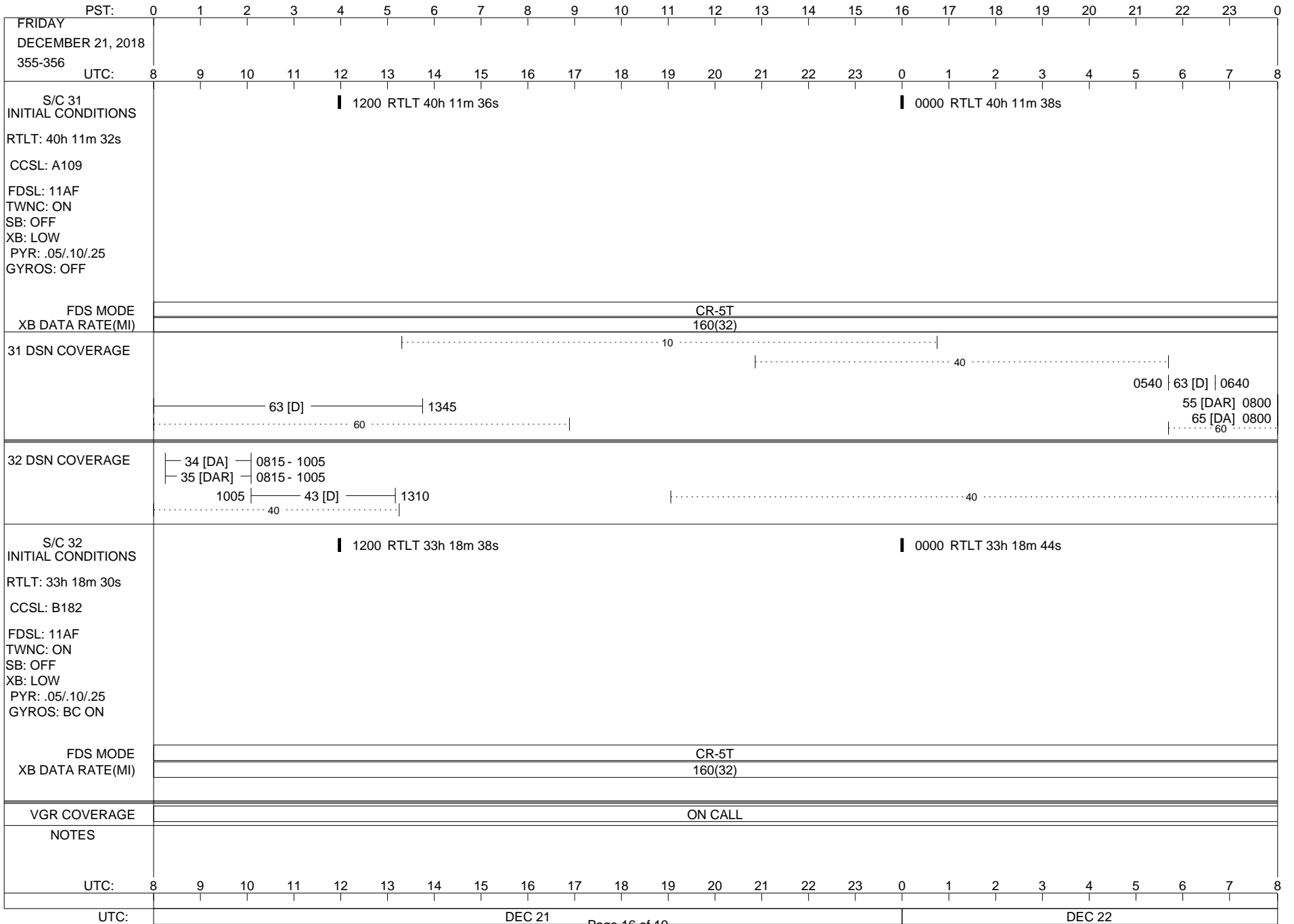
ISSUE DATE: 12/11/18 08:53

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 19, 2018 353-354																									
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: 40h 11m 18s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 40h 11m 22s												█ 0000 RTLT 40h 11m 26s												
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
31 DSN COVERAGE	1310 |-----| 14 [D] |-----| 1645												10 .....|												
	|-----| 0835 63 [D] |-----| 60 .....|												|-----| 40 .....|												
													0550 - 0715 |-----| 63 [D] |-----| 60 .....|												
32 DSN COVERAGE	.....| 40 .....|												1900 |-----| 43 [D] |-----| 2345											
													.....| 40 .....|												
S/C 32 INITIAL CONDITIONS RTLT: 33h 18m 2s CCSL: B182 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: BC ON	█ 1200 RTLT 33h 18m 10s												█ 0000 RTLT 33h 18m 16s												
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 19												DEC 20												

ISSUE DATE: 12/11/18 08:53

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 20, 2018 354-355																												
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: 40h 11m 26s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 40h 11m 30s														█ 0000 RTLTL 40h 11m 32s													
FDS MODE	CR-5T							EL-40							CR-5T							CR-5T						
XB DATA RATE(MI)	160(32)							40(30)							160(32)							160(32)						
31 DSN COVERAGE																												
32 DSN COVERAGE																												
S/C 32 INITIAL CONDITIONS RTLTL: 33h 18m 16s CCSL: B182 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: BC ON	█ 1200 RTLTL 33h 18m 24s														█ 0000 RTLTL 33h 18m 30s													
FDS MODE	CR-5T																											
XB DATA RATE(MI)	160(32)																											
VGR COVERAGE	ON CALL														VGR							ON CALL						
NOTES	[1] S/C 31=EL-40 @ 1631 XB=40(30) [2] S/C 32=CR-5T @ 2314 XB=160(32) [3] S/C 31=GS-4B @ 0548 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 20														DEC 21													

ISSUE DATE: 12/11/18 08:53



ISSUE DATE: 12/11/18 08:53

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 24, 2018 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 RTLT: 40h 11m 50s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 40h 11m 54s</p> <p>----- TLC (SHORT-FORM) -----</p> </div>																										
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)													
31 DSN COVERAGE	<div style="text-align: center;"> <p>1310 |-----| 14 |-----| 1710</p> <p>| 0820 63 [D] |-----| 60 |-----|</p> </div>																										
32 DSN COVERAGE	<div style="text-align: center;"> <p>1855 |-----| 43 [D] |-----| 2255</p> <p>..... 40 |-----|</p> </div>																										
S/C 32 INITIAL CONDITIONS RTLT: 33h 19m 10s CCSL: B182 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: BC ON	<div style="text-align: center;"> <p>1200 RTLT 33h 19m 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 24													DEC 25													