

VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: February 13, 2019

For the Period: 02/14/19 to 03/04/19 (19/045 – 19/063)

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:

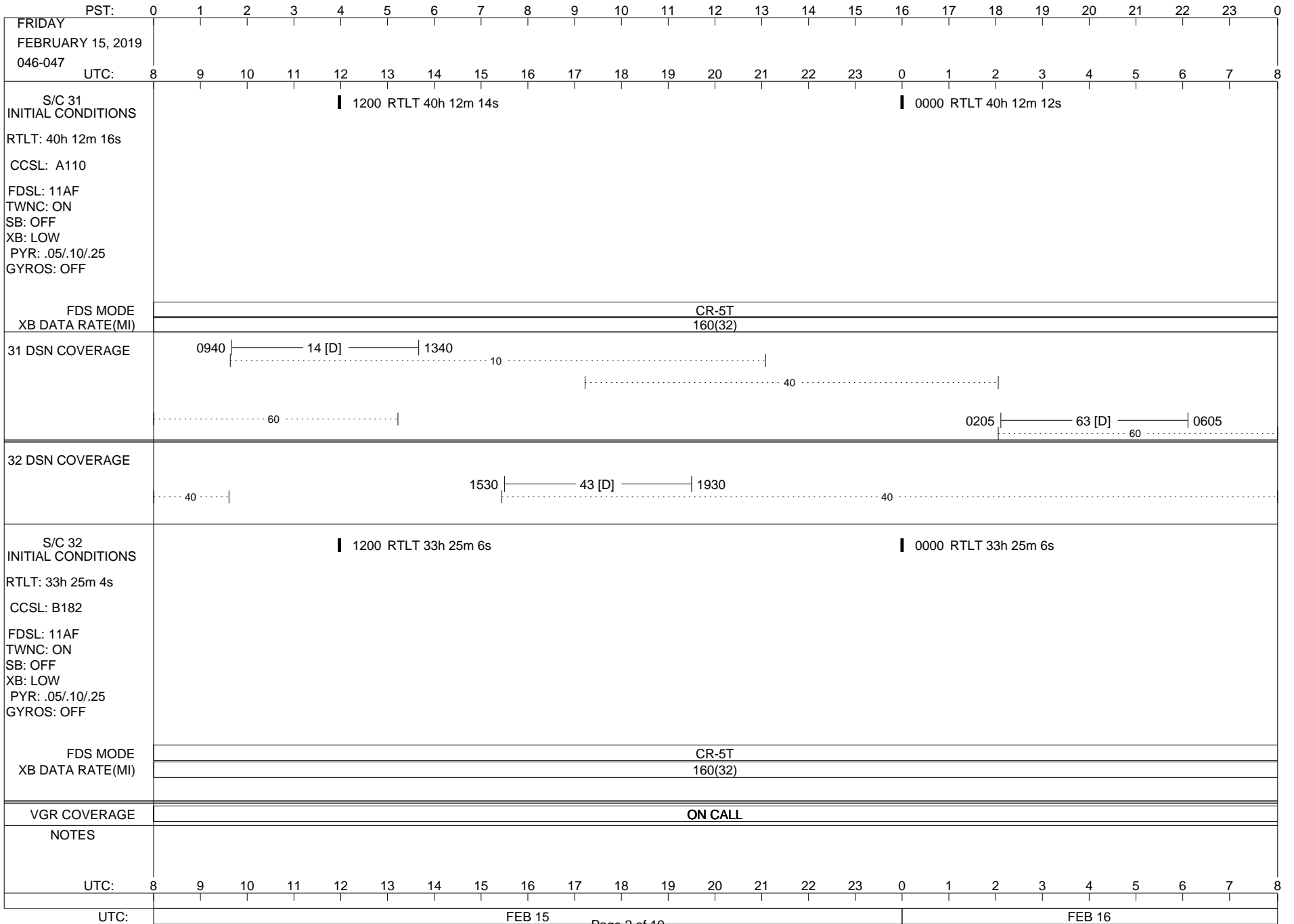
- ▽ = R/T Command (Last chance or Contingency)
- ▼ = R/T Command (Scheduled)
- * = Result of R/T Command
- n = (where n = 1,2,3 ..) Special Note, see bottom of page
- A = Arrayed station
- B = BLF
- D = Downlink only pass
- H = High Power Transmitter
- R = Array Reference Antenna
- T = TLC Uplink
- U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

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

02/27/17

ISSUE DATE: 03/04/19 12:27

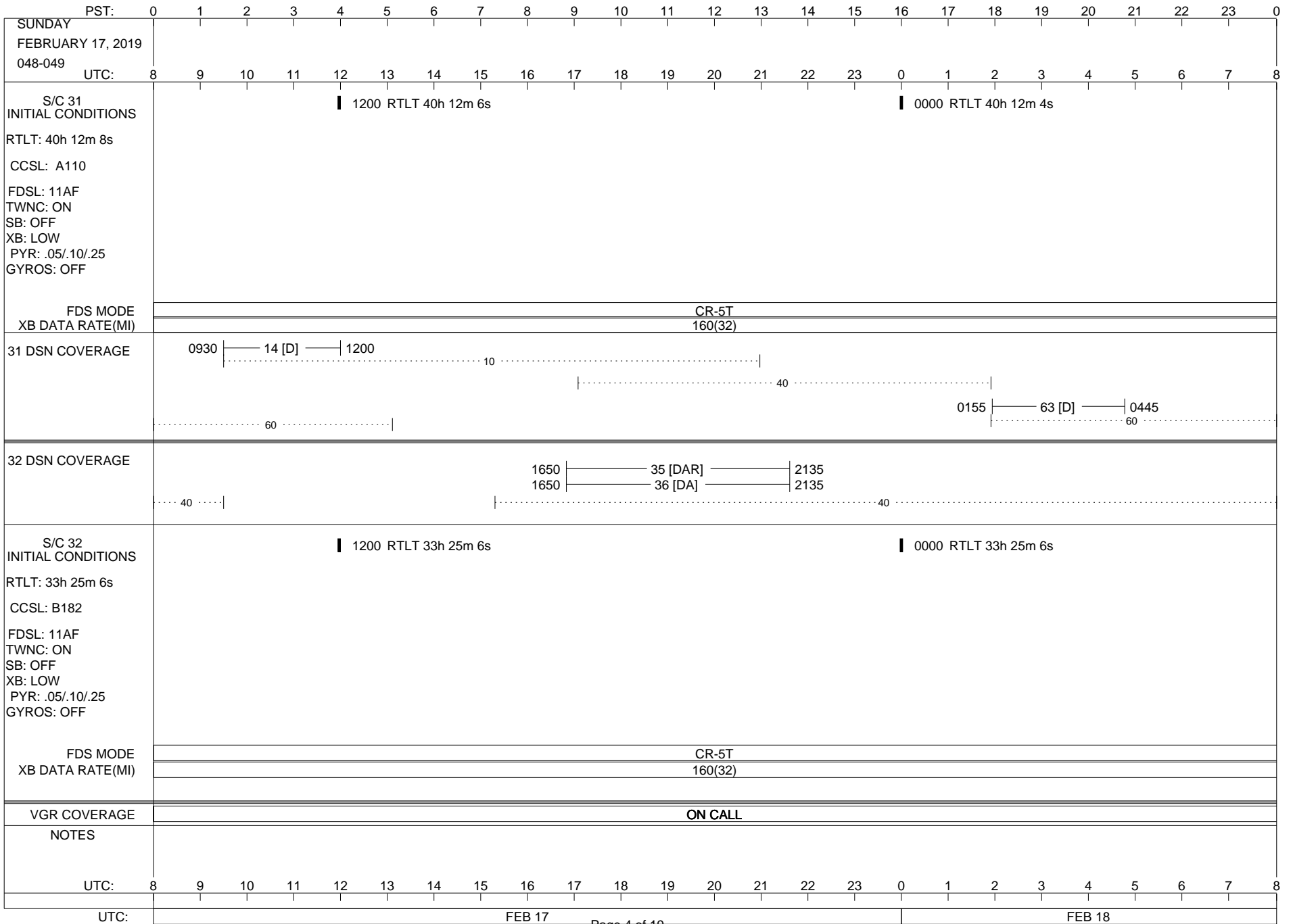
PST: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0					
THURSDAY FEBRUARY 14, 2019 045-046					
UTC: 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 8					
S/C 31 INITIAL CONDITIONS RTLTL: 40h 12m 18s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLTL 40h 12m 16s</p> <p>0000 RTLTL 40h 12m 16s</p> <p>1227 - 1259 SHUNT POWER TEST</p> <p>2335 TAPPOS 0057</p> <p>0237 0238 PWS/RH</p> <p>0249 - - - - 0356 TAPPOS</p> <p>↓ 0237 GS-4B 0238</p>				
FDS MODE XB DATA RATE(MI)	<table border="1"> <tr> <td>CR-5T</td> <td>CR-5T</td> </tr> <tr> <td>160(32)</td> <td>160(32)</td> </tr> </table>	CR-5T	CR-5T	160(32)	160(32)
CR-5T	CR-5T				
160(32)	160(32)				
31 DSN COVERAGE	<p>1150 25 [DA] 1315</p> <p>1150 26 [DAR] 1315</p> <p>.....10.....40.....60.....60.....</p>				
32 DSN COVERAGE	<p>1530 43 [D] 1930</p> <p>.....40.....40.....</p>				
S/C 32 INITIAL CONDITIONS RTLTL: 33h 25m 4s CCSL: B182 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLTL 33h 25m 4s</p> <p>0000 RTLTL 33h 25m 4s</p>				
FDS MODE XB DATA RATE(MI)	<table border="1"> <tr> <td>CR-5T</td> </tr> <tr> <td>160(32)</td> </tr> </table>	CR-5T	160(32)		
CR-5T					
160(32)					
VGR COVERAGE	ON CALL				
NOTES	[1] S/C 31=GS-4B @ 0237 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: FEB 14 FEB 15					



ISSUE DATE: 03/04/19 12:27

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 FEBRUARY 16, 2019 047-048	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 12m 12s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 12m 10s												0000 RTLT 40h 12m 8s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	0935 ----- 14 [D] ----- 1205 ----- 10 ----- ----- 40 ----- ----- 60 -----												0200 ----- 63 [D] ----- 0600 ----- 60 -----												
32 DSN COVERAGE	1535 ----- 35 [DAR] ----- 2005 1535 ----- 36 [DA] ----- 2005 ----- 40 -----																								
S/C 32 INITIAL CONDITIONS RTLT: 33h 25m 6s CCSL: B182 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 25m 6s												0000 RTLT 33h 25m 6s												
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 @ 0537 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:	FEB 16												FEB 17												

ISSUE DATE: 03/04/19 12:27

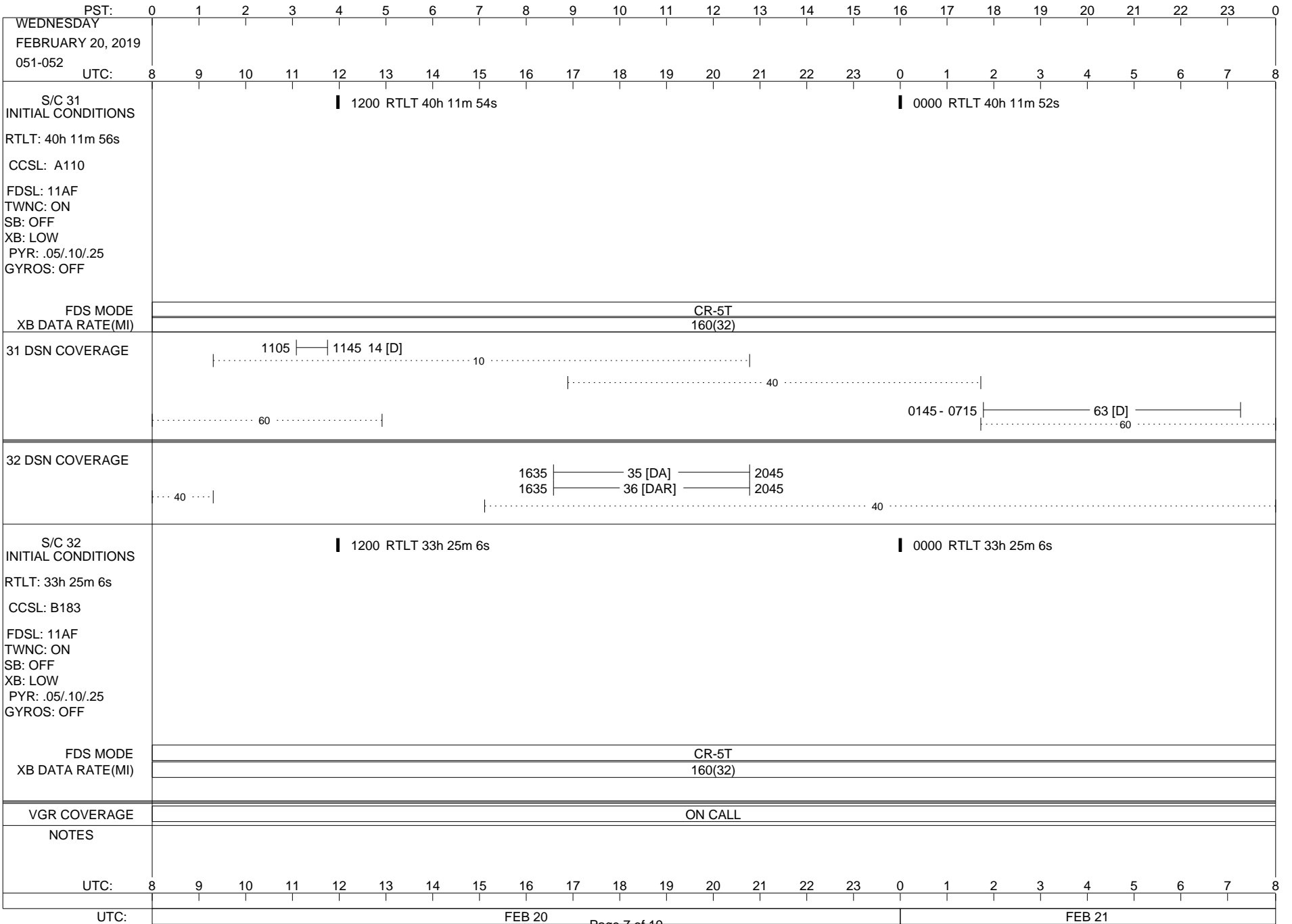


ISSUE DATE: 03/04/19 12:27

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MONDAY FEBRUARY 18, 2019 049-050	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 12m 4s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 40h 12m 2s												█ 0000 RTLT 40h 12m 0s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	0930 ----- 14 [T] ----- 1330 ----- 60 -----												----- 40 ----- 0150 ----- 63 [D] ----- 0550 ----- 60 -----												
32 DSN COVERAGE	----- 40 -----												1610 ----- 43 [H1] ----- 2040 ----- 40 -----												
S/C 32 INITIAL CONDITIONS RTLT: 33h 25m 6s CCSL: B182 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 33h 25m 6s												█ 0000 RTLT 33h 25m 6s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE	ON CALL	VGR	ON CALL				VGR	ON CALL																	
NOTES	JPL HOLIDAY! [1] DSS-43 HP TXR DRV ON >= 16:38																								
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:	FEB 18												FEB 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 FEBRUARY 19, 2019 050-051																												
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 12m 0s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 40h 11m 58s												0000 RTLTL 40h 11m 56s															
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)															
31 DSN COVERAGE	0935 14 [D] 1150												0145 - 0715 63 [D]															
32 DSN COVERAGE	1510 43 [D] 1940												0230 43 [D] 0525															
S/C 32 INITIAL CONDITIONS RTLTL: 33h 25m 6s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 33h 25m 6s												0000 RTLTL 33h 25m 6s															
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												EL-40 40(30)				CR-5T 160(32)											
VGR COVERAGE	ON CALL												VGR				ON CALL											
NOTES	[1] S/C 31=GS-4B @ 2000 XB=2.8K(41) NOT RECOVERABLE [2] S/C 32=EL-40 @ 0248 XB=40(30) [3] S/C 32=CR-5T @ 0516 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:	FEB 19														FEB 20													

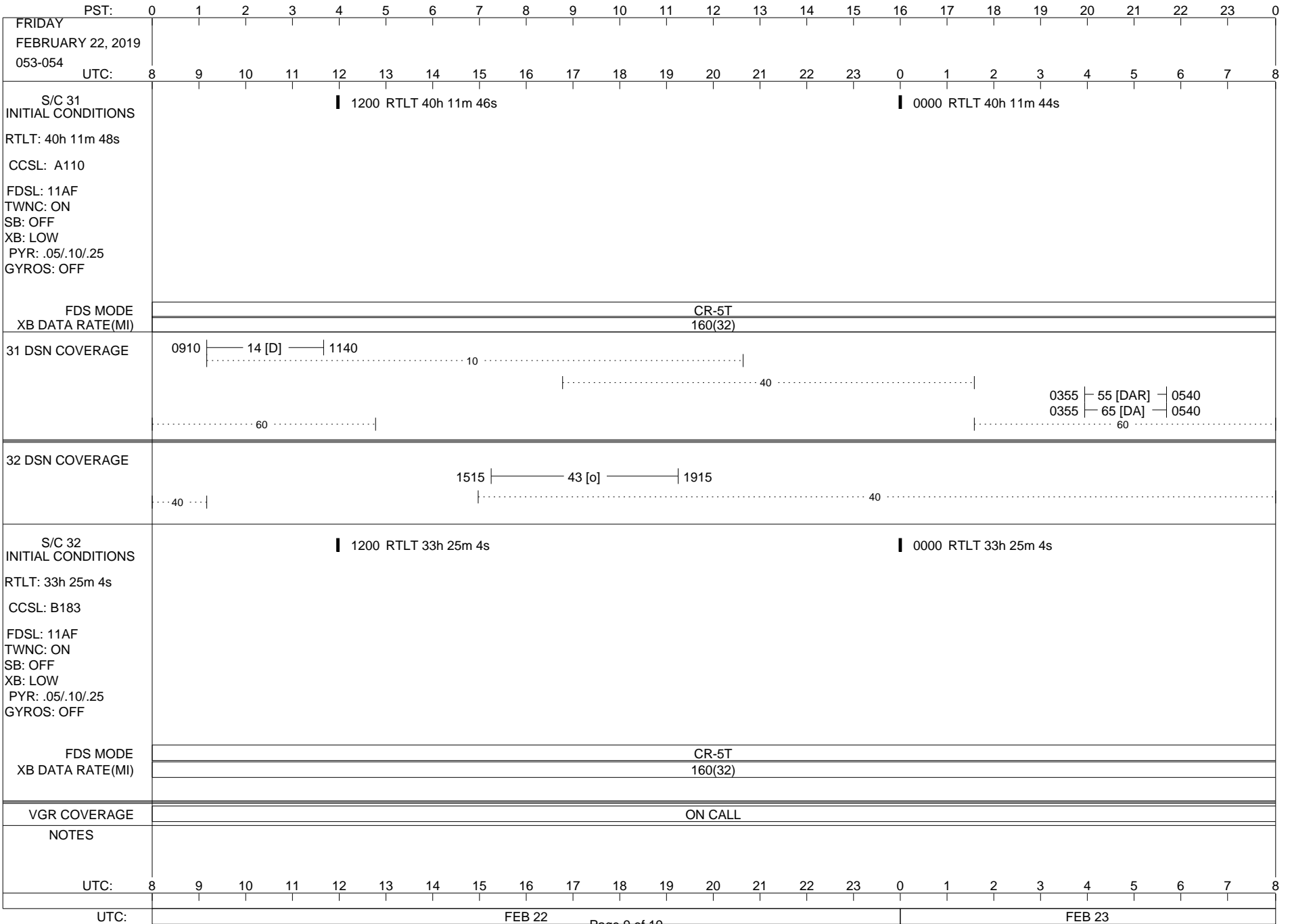
ISSUE DATE: 03/04/19 12:27



ISSUE DATE: 03/04/19 12:27

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 FEBRUARY 21, 2019 052-053																												
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 52s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 40h 11m 50s														█ 0000 RTLT 40h 11m 48s													
FDS MODE	CR-5T														CR-5T													
XB DATA RATE(MI)	160(32)														160(32)													
31 DSN COVERAGE	<p>0915 ----- 14 [D] ----- 1335 ----- 10 ----- ----- 40 ----- ----- 60 ----- ----- 0140 ----- 63 [D] ----- 0545 ----- 60 ----- </p>																											
32 DSN COVERAGE	<p>..... ----- 40 ----- ----- 1630 ----- 34 [DAR] ----- 2045 ----- 1630 ----- 36 [DA] ----- 2045 ----- 40 ----- </p>																											
S/C 32 INITIAL CONDITIONS RTLT: 33h 25m 6s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 33h 25m 6s														█ 0000 RTLT 33h 25m 4s													
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 @ 0212 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:	FEB 21														FEB 22													

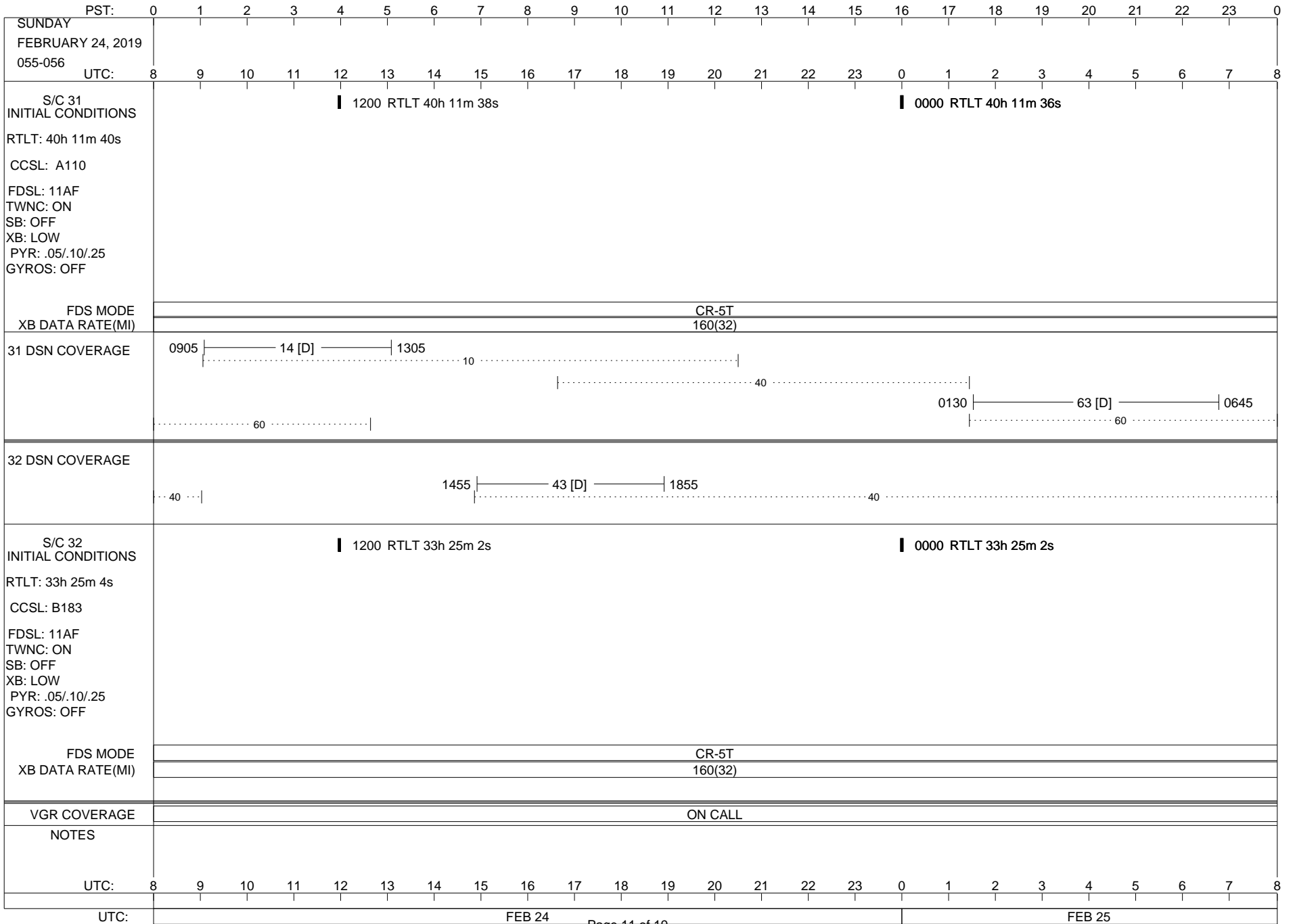
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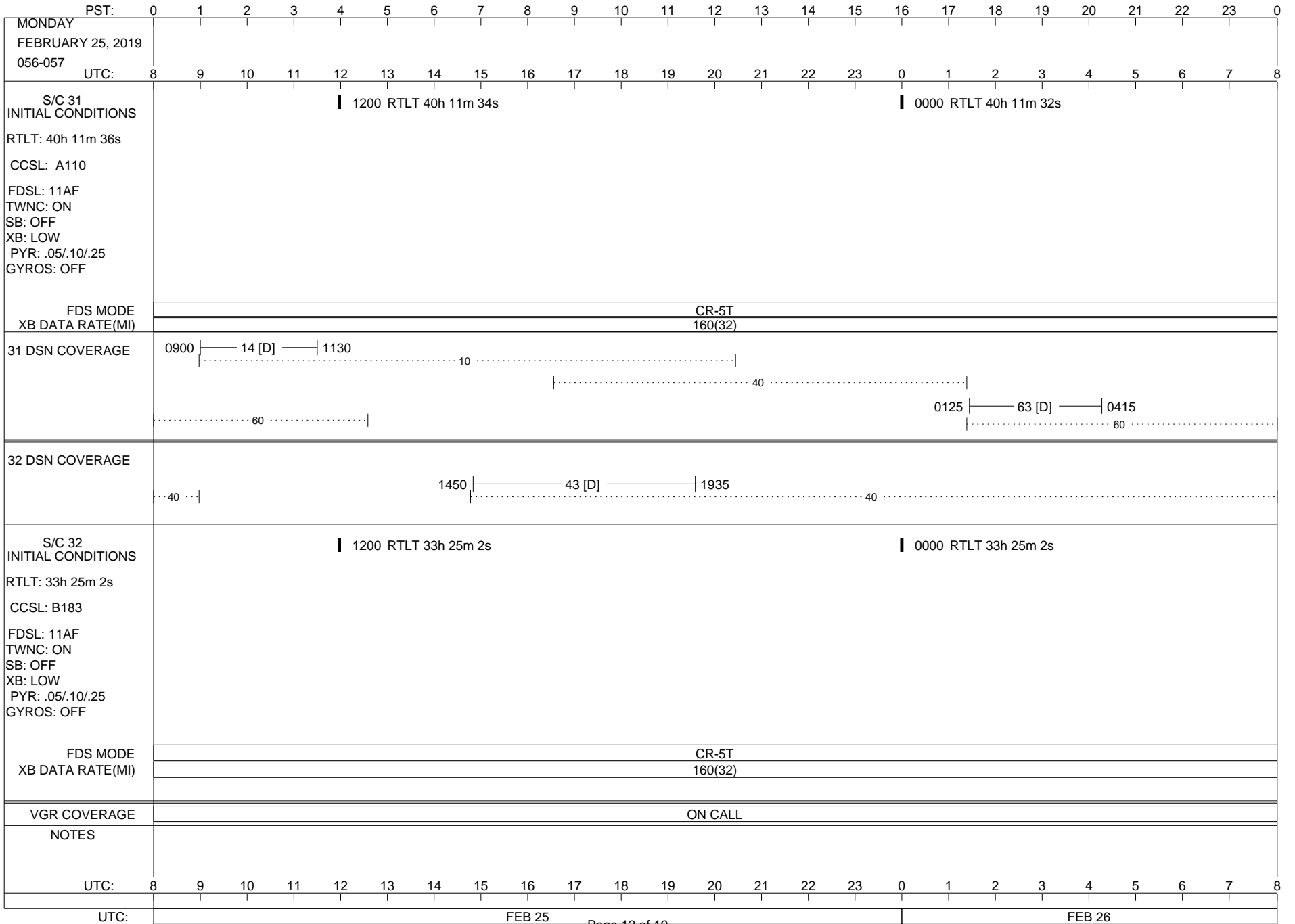
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PST:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0
SATURDAY FEBRUARY 23, 2019 054-055	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLT: 40h 11m 44s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 11m 42s												0000 RTLT 40h 11m 40s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	0910 ----- 14 [D] ----- 1315 ----- 10 ----- ----- 40 ----- ----- 60 -----												0130 ----- 63 [D] ----- 0420 ----- 60 -----												
32 DSN COVERAGE	1455 ----- 43 [D] ----- 1855 ----- 40 -----												0205 - 0735 ----- 43 [D] ----- ----- 40 -----												
S/C 32 INITIAL CONDITIONS RTLT: 33h 25m 4s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 25m 4s												0000 RTLT 33h 25m 4s												
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 @ 0512 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:	FEB 23												FEB 24												

ISSUE DATE: 03/04/19 12:27



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ISSUE DATE: 03/04/19 12:27

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 FEBRUARY 26, 2019 057-058	
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 32s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLT 40h 11m 30s</p> <p>0925 DUMMY (01:37)</p> <p>U/L 0950 - - - - - - TLC (SHORT-FORM) - - - - -</p> <p>1935 1936 PWS/RH</p> <p>↓ 1935 GS-4B 1936</p> <p>CR-5T 160(32)</p> <p>CR-5T 160(32)</p>
FDS MODE XB DATA RATE(MI)	CR-5T 160(32) CR-5T 160(32)
31 DSN COVERAGE	0855 ----- 14 [T] ----- 1500 ----- 10 ----- ----- 40 ----- ----- 60 -----
32 DSN COVERAGE	----- 40 ----- ----- 40 ----- 0630 --- 43 [H2] ---
S/C 32 INITIAL CONDITIONS RTLT: 33h 25m 2s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLT 33h 25m 0s</p> <p>0000 RTLT 33h 25m 0s</p> <p>CRS SC21AF (16:28) 0703▼</p> <p>DUMMY (16:40) 0715▼</p>
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)
VGR COVERAGE	VGR ----- ON CALL ----- VGR
NOTES	[1] S/C 31=GS-4B @ 1935 XB=2.8K(41) NOT RECOVERABLE [2] DSS-43 HP TXR DRV OFF <= 07:26
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: FEB 26 ----- FEB 27 -----	

ISSUE DATE: 03/04/19 12:27

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 FEBRUARY 27, 2019 058-059																									
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S/C 31 INITIAL CONDITIONS RTLTL: 40h 11m 28s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 40h 11m 26s												█ 0000 RTLTL 40h 11m 24s												
TLC (SHORT-FORM)												D/L - 0330													
1151 --- MAGCAL --- 1453																									
1151 --- PESCAL --- 1511																									
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
31 DSN COVERAGE	0850 ----- 14 [D] ----- 1545												0115 ----- 63 [D] ----- 0645												
..... 60 40													
..... 60 60													
32 DSN COVERAGE	0850 43 [H2]												1440 ----- 43 [D] ----- 1840												
..... 40 40													
S/C 32 INITIAL CONDITIONS RTLTL: 33h 25m 0s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 33h 25m 0s												█ 0000 RTLTL 33h 24m 58s												
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:	FEB 27												FEB 28												

ISSUE DATE: 03/04/19 12:27

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 FEBRUARY 28, 2019 059-060																												
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 24s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 40h 11m 22s														█ 0000 RTLT 40h 11m 20s													
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 RTLT: 33h 24m 58s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 33h 24m 58s														█ 0000 RTLT 33h 24m 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 @ 0148 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:	FEB 28														MAR 01													

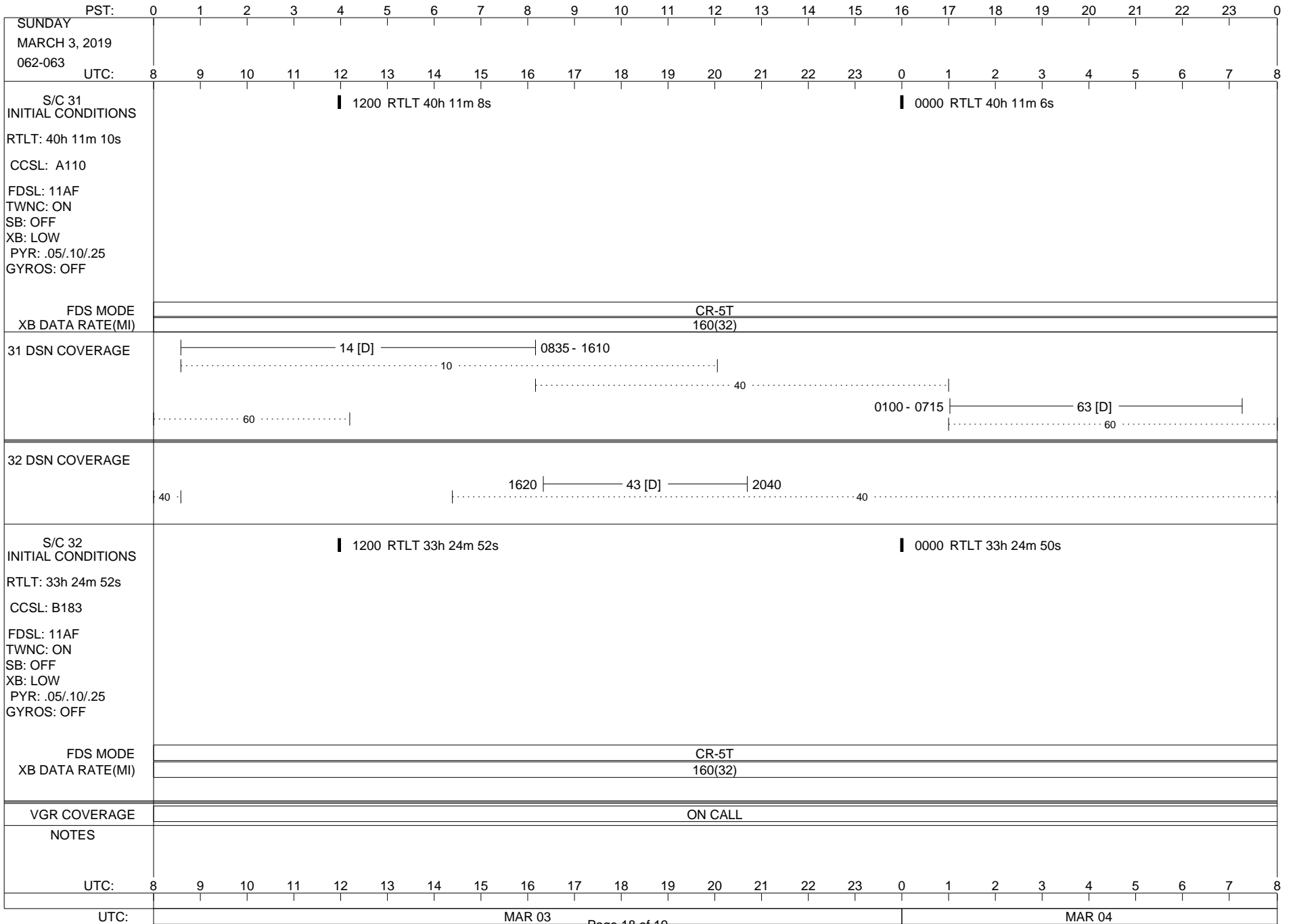
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S/C 31 INITIAL CONDITIONS RTLT: 40h 11m 20s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 11m 18s												0000 RTLT 40h 11m 16s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	0845 ----- 14 [D] ----- 1540 ----- 10 ----- ----- 40 ----- ----- 60 -----												0110 ----- 63 [D] ----- 0510 ----- 60 -----												
32 DSN COVERAGE	1435 ----- 43 [D] ----- 1935 ----- 40 -----																								
S/C 32 INITIAL CONDITIONS RTLT: 33h 24m 56s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 24m 56s												0000 RTLT 33h 24m 54s												
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:	MAR 01												MAR 02												

ISSUE DATE: 03/04/19 12:27

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 MARCH 2, 2019 061-062																										
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 16s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 40h 11m 12s												█ 0000 RTLTL 40h 11m 10s													
	0146 - - 0227 TAPPOS																									
	0449 0450 PWS/RH																									
	0500 - 0526 TAPPOS																									
	↓ 0448 GS-4B 0450																									
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
31 DSN COVERAGE	----- 14 [D] ----- 0840 - 1110												----- 10 -----													
	----- 40 -----												----- 60 -----													
32 DSN COVERAGE	40 ·												1430 ----- 43 [D] ----- 1850													
	----- 40 -----												----- 60 -----													
S/C 32 INITIAL CONDITIONS RTLTL: 33h 24m 54s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 33h 24m 54s												█ 0000 RTLTL 33h 24m 52s													
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 @ 0448 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:	MAR 02												MAR 03													

ISSUE DATE: 03/04/19 12:27



ISSUE DATE: 03/04/19 12:27

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 MARCH 4, 2019 063-064	
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 6s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLT 40h 11m 4s</p> <p>0925 DUMMY (01:36)</p>
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)
31 DSN COVERAGE	<p>14 [T] 0835 - 1430</p> <p>10</p> <p>60</p>
32 DSN COVERAGE	<p>1550 34 [DA] 2155</p> <p>1550 35 [DAR] 2155</p> <p>40</p>
S/C 32 INITIAL CONDITIONS RTLT: 33h 24m 50s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLT 33h 24m 50s</p>
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:	MAR 04 Page 19 of 19 MAR 05