

VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: February 19, 2019

For the Period: 02/21/19 to 03/11/19 (19/052 – 19/070)

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

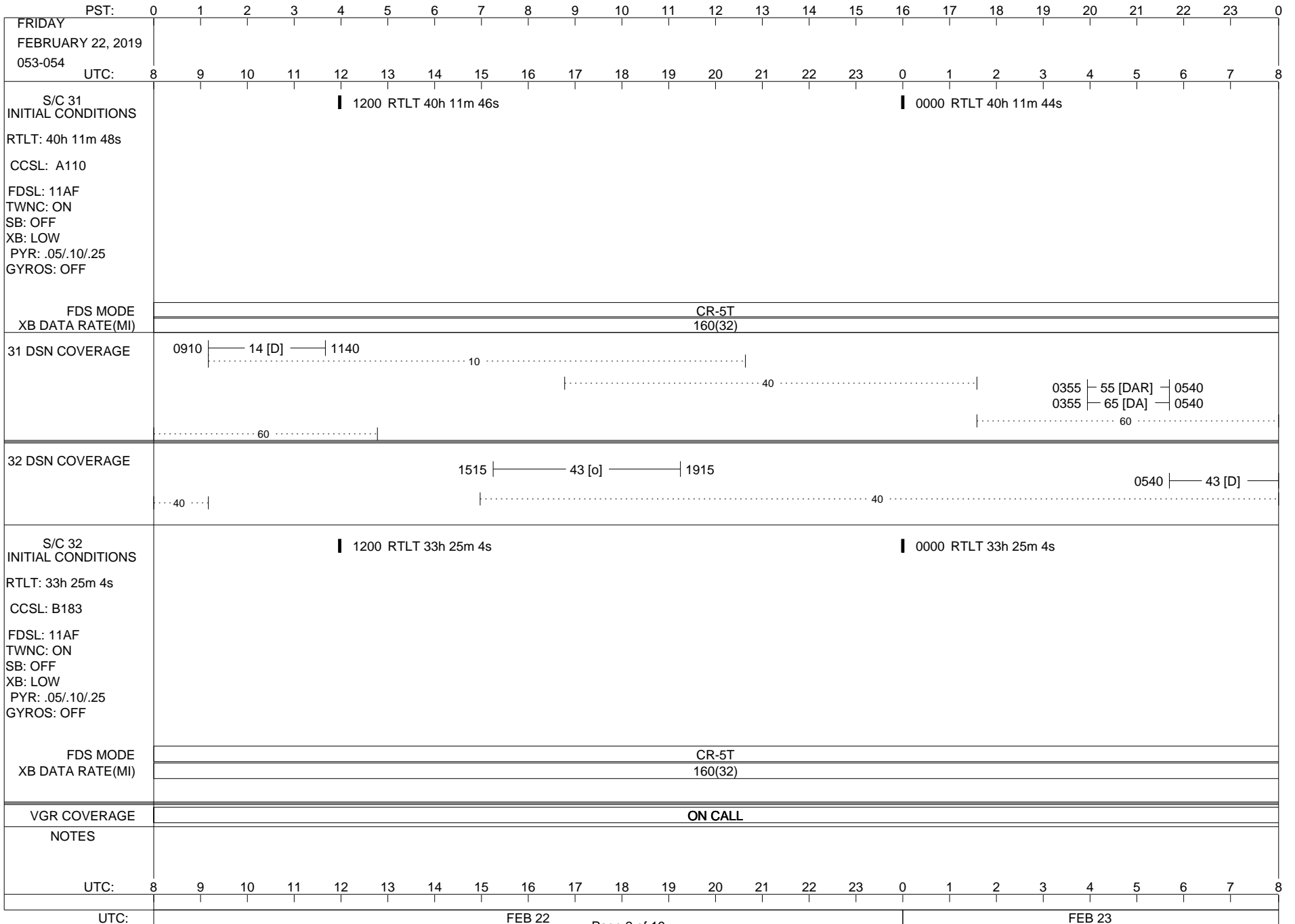
Posted at http://voyager.jpl.nasa.gov/mission/soesfos/tracking_schedule.html

02/27/17

ISSUE DATE: 03/04/19 12:28

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THURSDAY FEBRUARY 21, 2019 052-053																									
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S/C 31 INITIAL CONDITIONS RTLTL: 40h 11m 52s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 40h 11m 50s												0000 RTLTL 40h 11m 48s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	0915 ----- 14 [D] ----- 1335 ----- 10 ----- ----- 40 ----- ----- 60 ----- 0140 ----- 63 [D] ----- 0545 ----- 60 -----																								
32 DSN COVERAGE	43 [D] 0910 ----- 40 ----- 1630 ----- 34 [DAR] ----- 2045 1630 ----- 36 [DA] ----- 2045 ----- 40 -----																								
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 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
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ISSUE DATE: 03/04/19 12:28

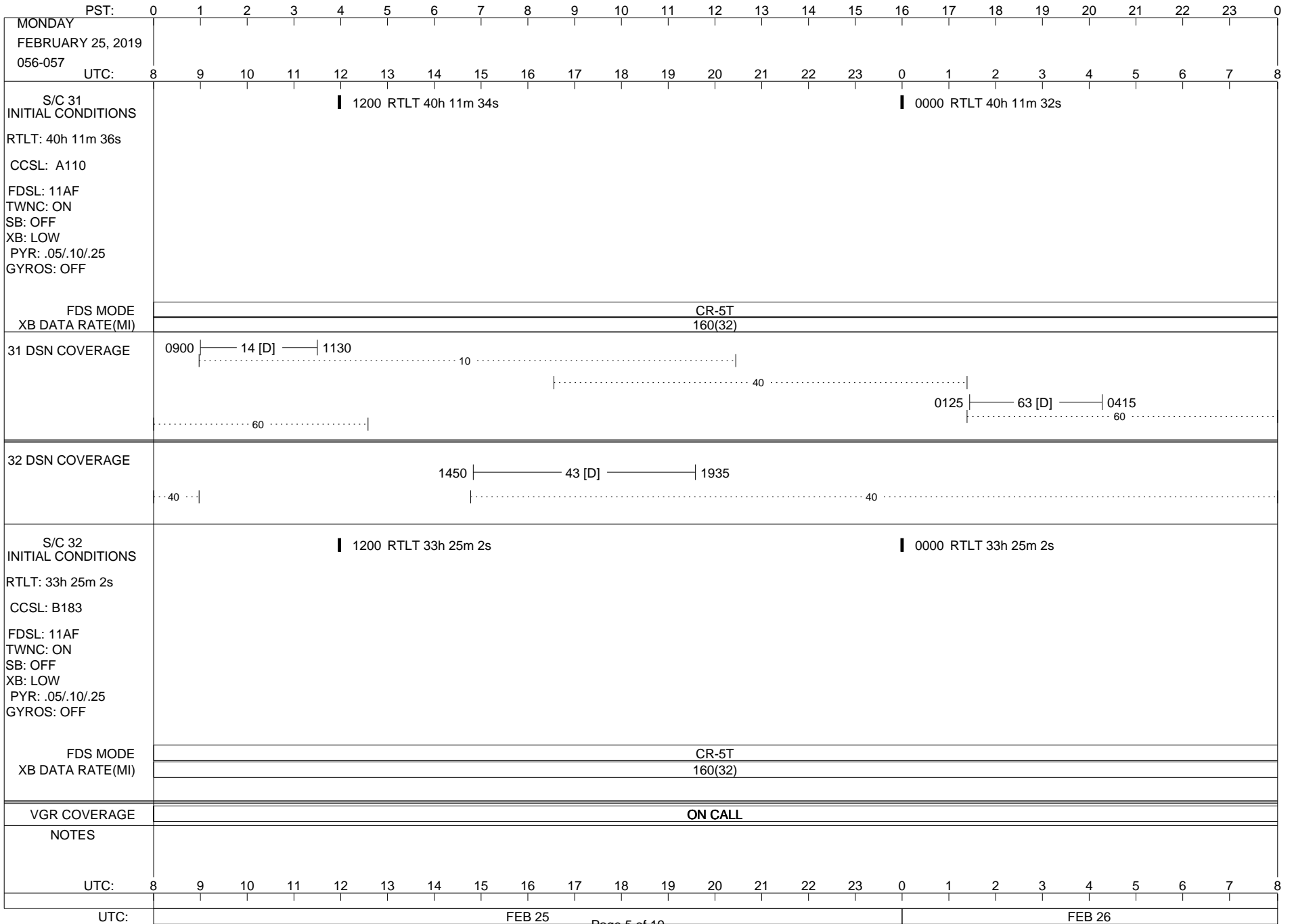


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SATURDAY FEBRUARY 23, 2019 054-055	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLT: 40h 11m 44s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 11m 42s												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	43 [D] 0905 ----- 40 -----												1455 ----- 43 [D] ----- 1855 ----- 40 ----- 0205 - 0735 ----- 43 [D] -----												
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
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ISSUE DATE: 03/04/19 12:28

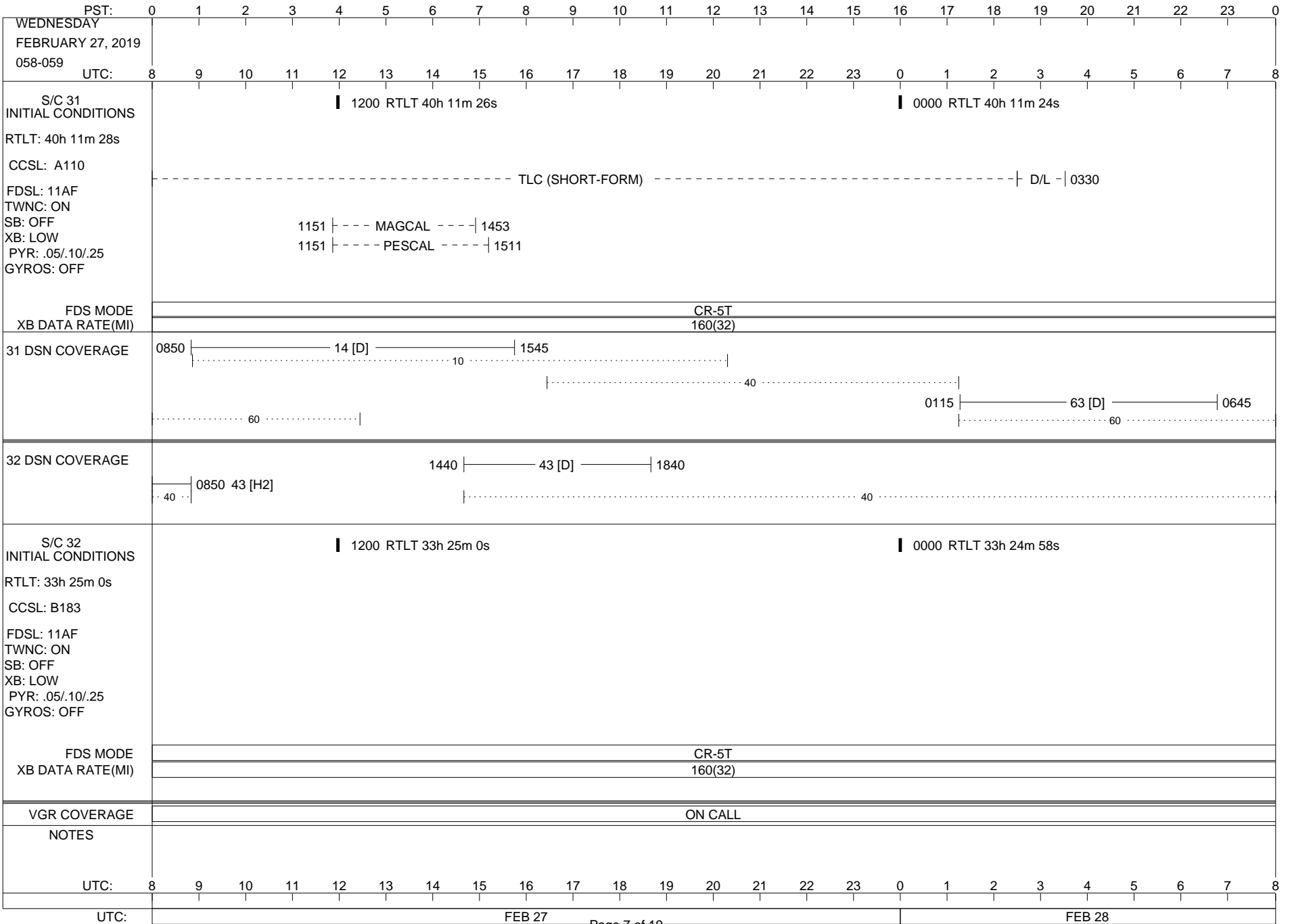
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SUNDAY FEBRUARY 24, 2019 055-056																										
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S/C 31 INITIAL CONDITIONS RTLT: 40h 11m 40s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 40h 11m 38s												█ 0000 RTLT 40h 11m 36s													
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
31 DSN COVERAGE	0905 ----- 14 [D] ----- 1305 ----- 10 ----- ----- 40 ----- 0130 ----- 63 [D] ----- 0645 ----- 60 -----																									
32 DSN COVERAGE	1455 ----- 43 [D] ----- 1855 ----- 40 ----- ----- 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 2s												█ 0000 RTLT 33h 25m 2s													
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 24													FEB 25												

ISSUE DATE: 03/04/19 12:28



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	1200 RTLT 40h 11m 30s												0000 RTLT 40h 11m 28s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	0855 ----- 14 [T] ----- 1500 ----- 10 ----- ----- 40 ----- ----- 60 -----												----- 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	1200 RTLT 33h 25m 0s												0000 RTLT 33h 25m 0s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE	VGR												ON CALL												
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 12:28



ISSUE DATE: 03/04/19 12:28

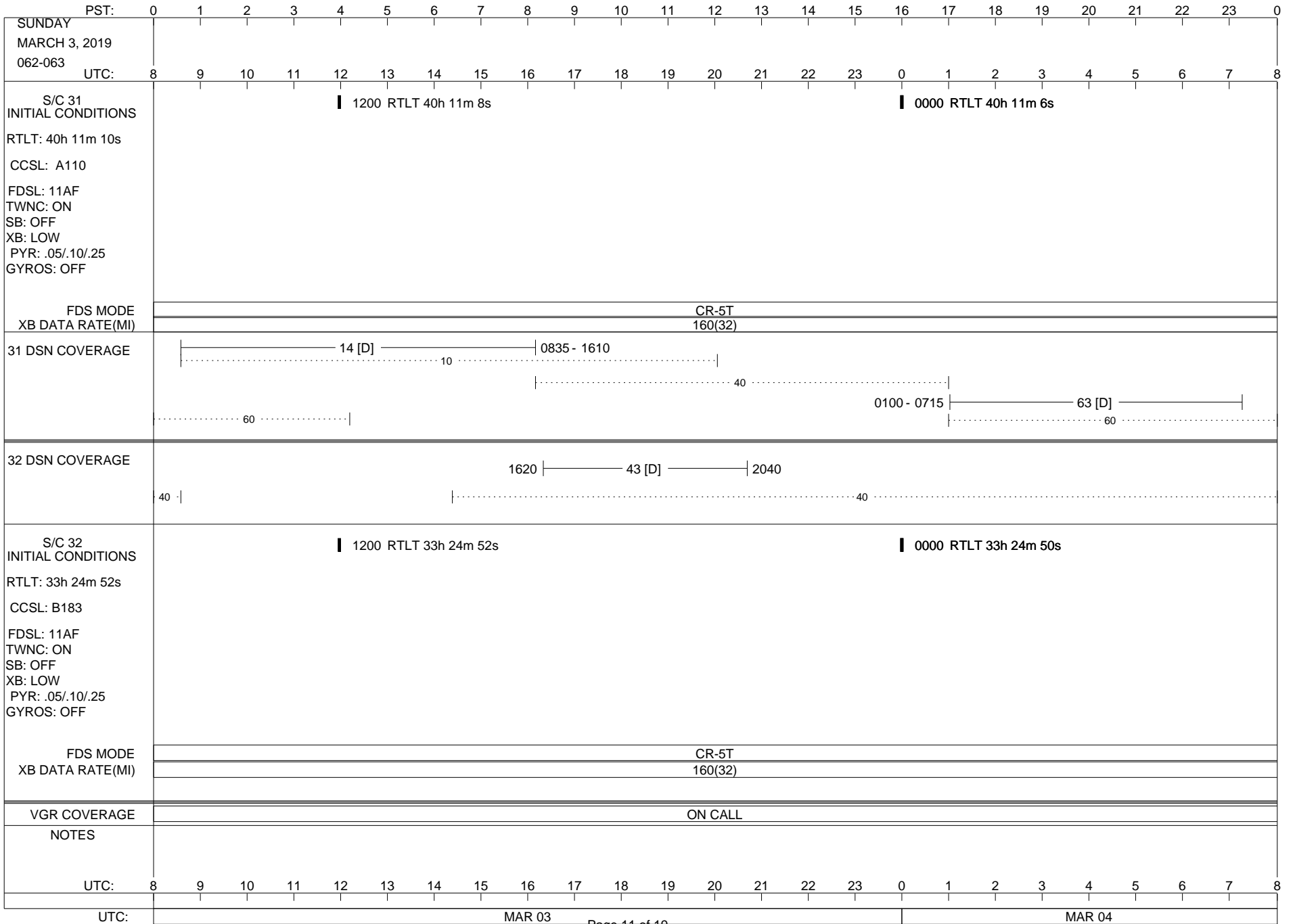
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THURSDAY FEBRUARY 28, 2019 059-060				
UTC: 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 8				
S/C 31 INITIAL CONDITIONS RTLT: 40h 11m 24s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLT 40h 11m 22s</p> <p>0000 RTLT 40h 11m 20s</p> <p>2247 --- 2341 TAPPOS 0148 0150 PWS/RH 0200 -- 0240 TAPPOS</p> <p>↓ 0148 GS-4B 0150</p>			
FDS MODE XB DATA RATE(MI)	<table border="1"> <tr> <td>CR-5T 160(32)</td> <td>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> 10 </p> <p> 40 </p> <p>0110 ----- 63 [D] ----- 0400</p> <p> 60 </p> <p> 60 </p>			
32 DSN COVERAGE	<p>40 </p> <p>1435 ----- 43 [D] ----- 1835</p> <p> 40 </p>			
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	<p>1200 RTLT 33h 24m 58s</p> <p>0000 RTLT 33h 24m 56s</p> <p>* ↓ 1629 CRS SC21AF</p>			
FDS MODE XB DATA RATE(MI)	<table border="1"> <tr> <td>CR-5T 160(32)</td> </tr> </table>	CR-5T 160(32)		
CR-5T 160(32)				
VGR COVERAGE	<table border="1"> <tr> <td>ON CALL</td> <td>VGR</td> <td>ON CALL</td> </tr> </table>	ON CALL	VGR	ON CALL
ON CALL	VGR	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				

ISSUE DATE: 03/04/19 12:28

		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																											
MARCH 1, 2019																											
060-061		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 20s																											
CCSL: A110																											
FDSL: 11AF																											
TWNC: ON																											
SB: OFF																											
XB: LOW																											
PYR: .05/.10/.25																											
GYROS: OFF																											
FDS MODE																											
XB DATA RATE(MI)																											
31 DSN COVERAGE			0845																								
32 DSN COVERAGE																											
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																											
FDS MODE																											
XB DATA RATE(MI)																											
VGR COVERAGE																											
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												

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	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 16s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 11m 12s												0000 RTLT 40h 11m 10s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	14 [D] 0840 - 1110												40 60												
32 DSN COVERAGE	40 1430 43 [D] 1850												40 60												
S/C 32 INITIAL CONDITIONS RTLT: 33h 24m 54s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 24m 54s												0000 RTLT 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												

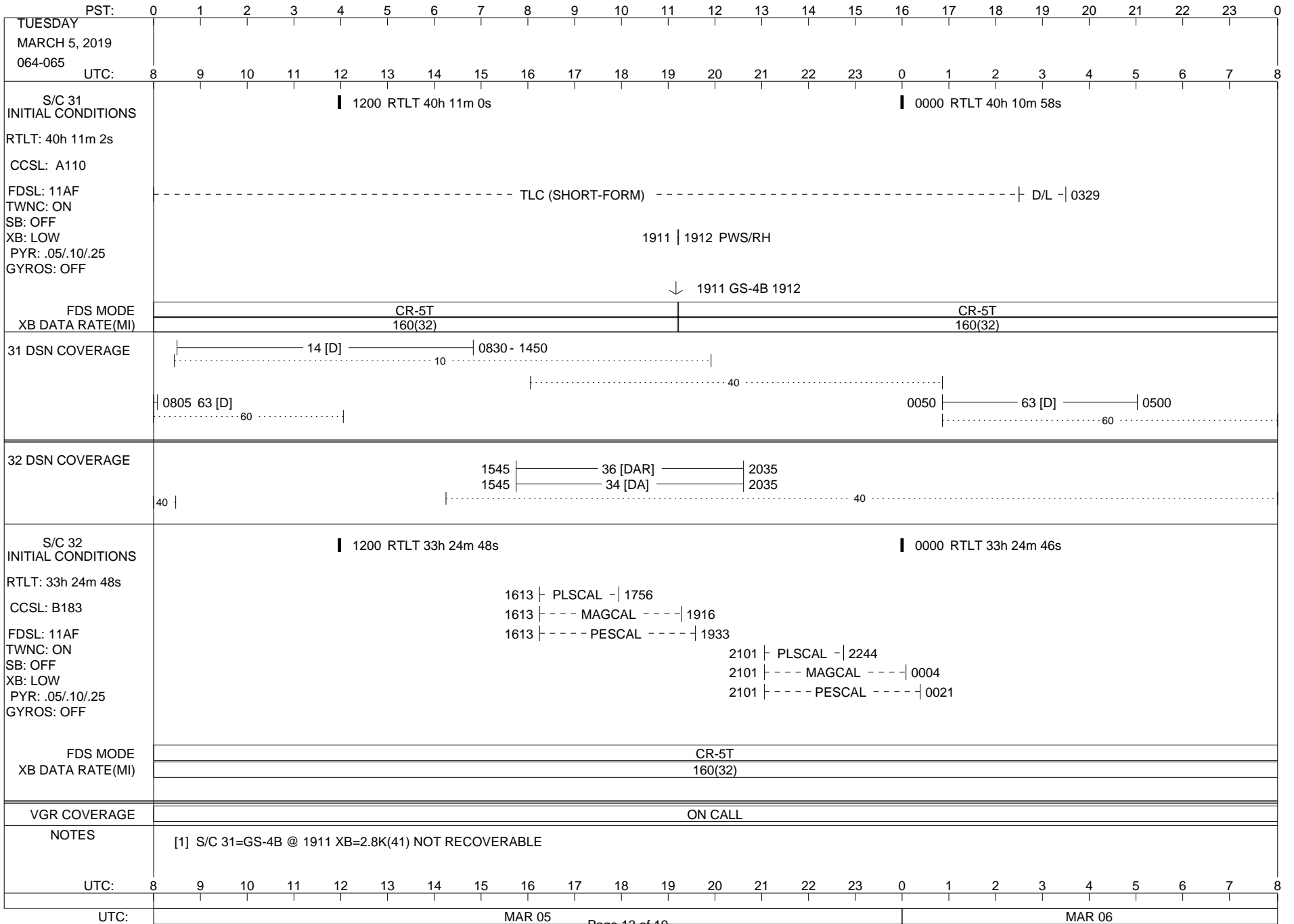
ISSUE DATE: 03/04/19 12:28



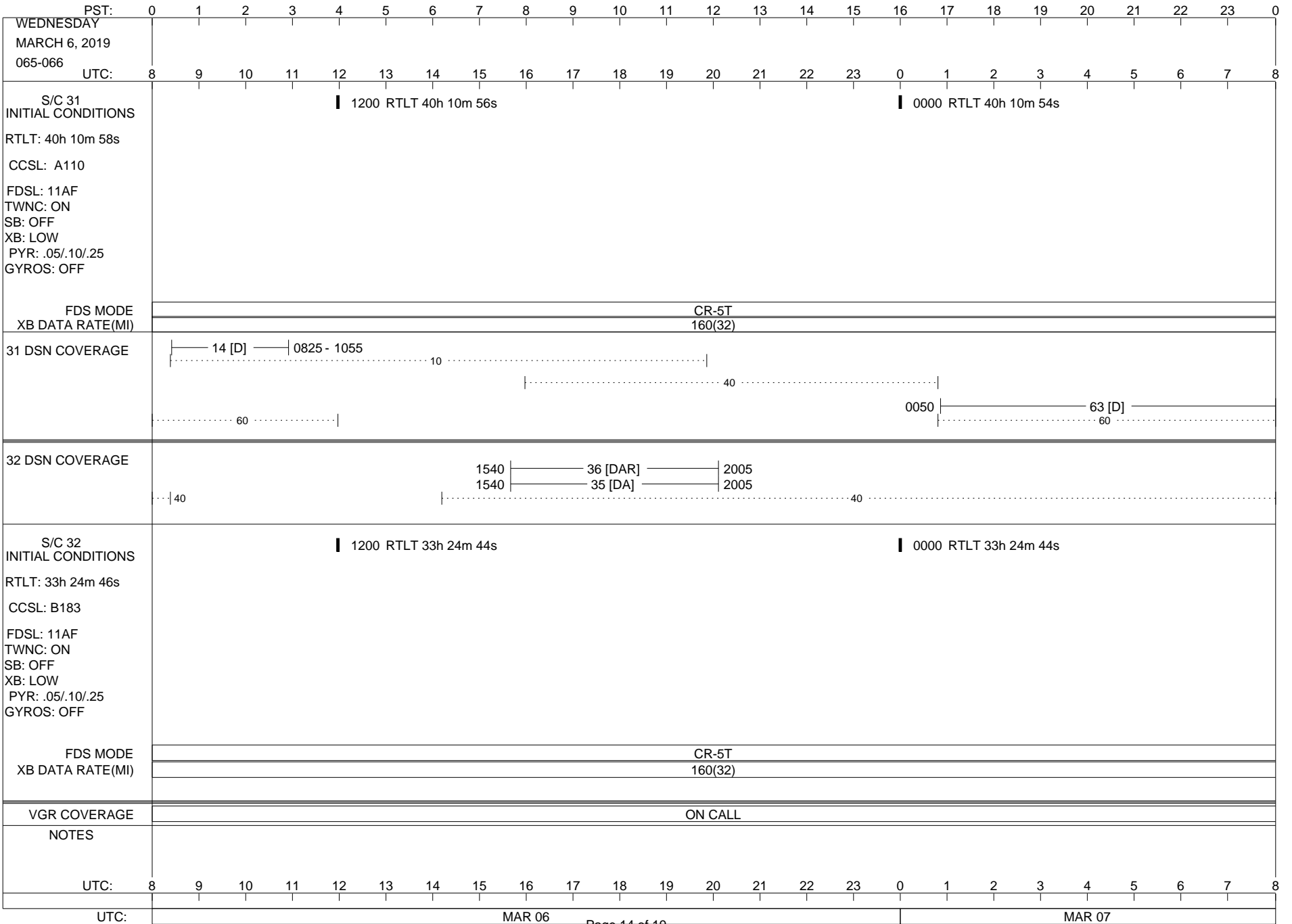
ISSUE DATE: 03/04/19 12:28

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> <p>U/L 0950 - ----- TLC (SHORT-FORM) -----</p> <p>0000 RTLT 40h 11m 2s</p>
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)
31 DSN COVERAGE	<p>14 [T] 0835 - 1430</p> <p>60</p> <p>40</p> <p>0345 63 [D] 60</p>
32 DSN COVERAGE	<p>1550 34 [DA] 2155</p> <p>1550 35 [DAR] 2155</p> <p>40</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> <p>0000 RTLT 33h 24m 48s</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 12 of 19 MAR 05

ISSUE DATE: 03/04/19 12:28



ISSUE DATE: 03/04/19 12:28



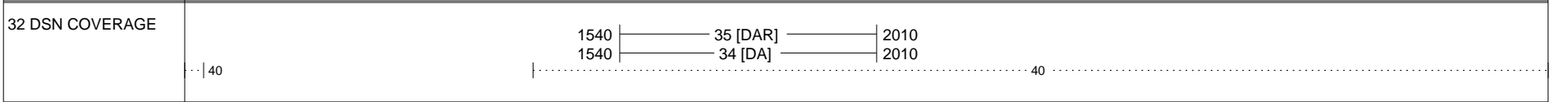
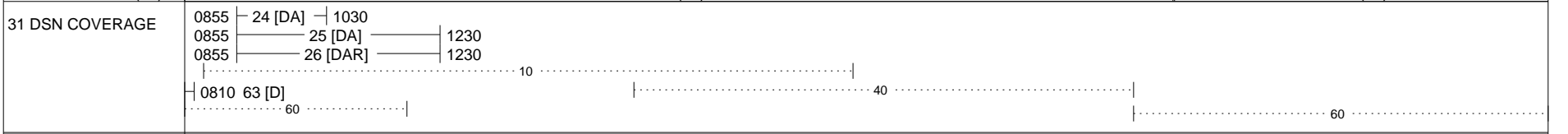
ISSUE DATE: 03/04/19 12:28

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
MARCH 7, 2019
066-067
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 54s
CCSL: A110
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF
2222 | - - | 2302 TAPPOS
0124 || 0126 PWS/RH
0136 | - | 0202 TAPPOS
↓ 0124 GS-4B 0126

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



S/C 32
INITIAL CONDITIONS
RTLT: 33h 24m 44s
CCSL: B183
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF
1917 || 1922 CCSTIMB FINE

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

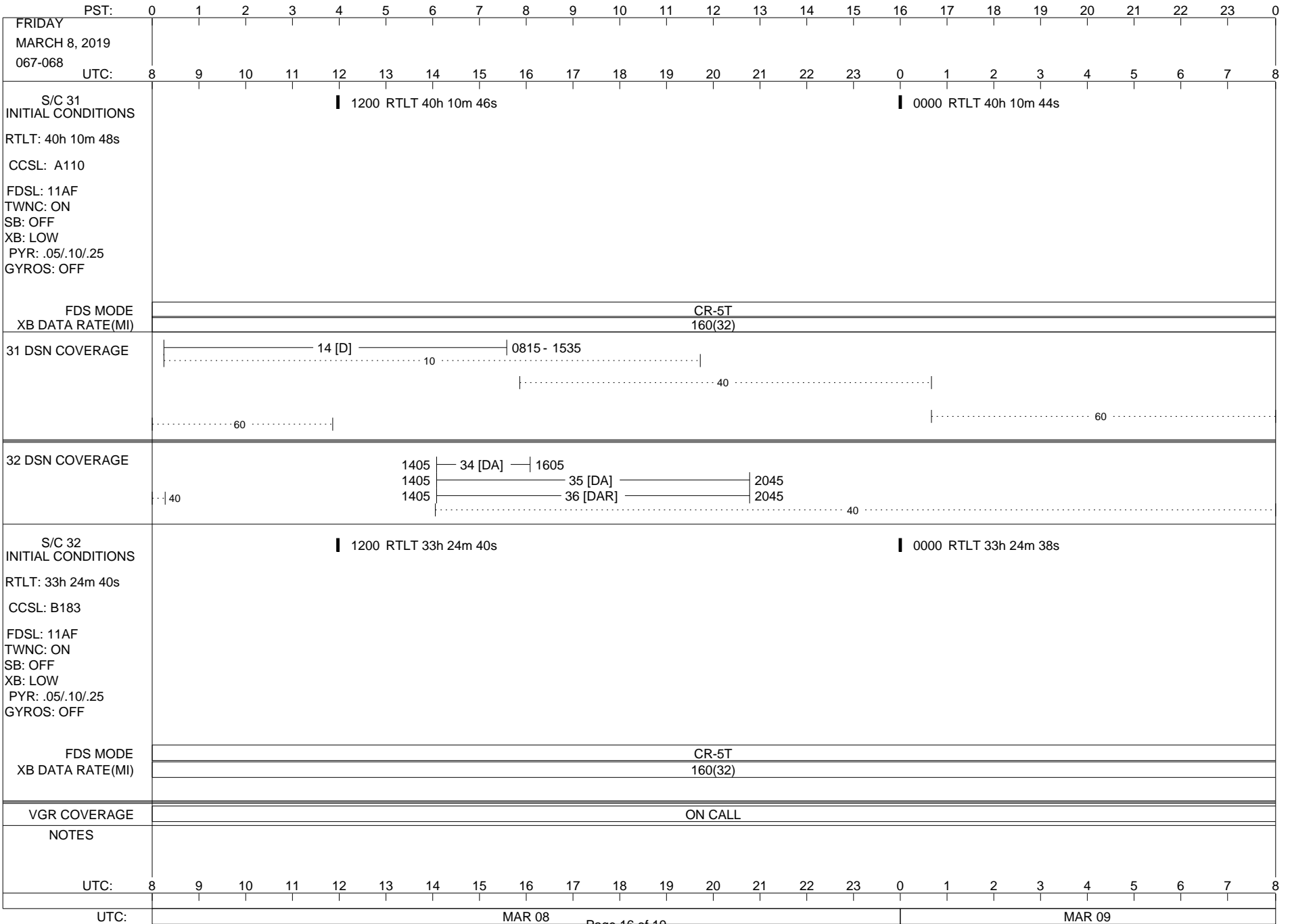
VGR COVERAGE ON CALL

NOTES
[1] S/C 31=GS-4B @ 0124 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 07 Page 15 of 19 MAR 08

ISSUE DATE: 03/04/19 12:28



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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 MARCH 9, 2019 068-069	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 44s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 10m 42s												0000 RTLT 40h 10m 40s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	14 [D] 0815 - 1220												0035 63 [D] 0325												
32 DSN COVERAGE	1530 36 [DAR] 1930												1530 34 [DA] 1930												
S/C 32 INITIAL CONDITIONS RTLT: 33h 24m 38s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 24m 36s												0000 RTLT 33h 24m 34s												
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 @ 0424 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 09												MAR 10												

ISSUE DATE: 03/04/19 12:28

PST: 0 1 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2	
SUNDAY MARCH 10, 2019 069-070	
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 9	
S/C 31 INITIAL CONDITIONS RTLT: 40h 10m 40s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLT 40h 10m 38s</p> <p>0855 DUMMY (01:06)</p> <p>0000 RTLT 40h 10m 36s</p>
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)
31 DSN COVERAGE	<p>14 0825 - 1530</p> <p>10</p> <p>40</p> <p>0030 - 0820 63 [D]</p> <p>60</p> <p>10</p>
32 DSN COVERAGE	<p>1525 35 [DAR] 2205</p> <p>1525 34 [DA] 2205</p> <p>40</p> <p>40</p>
S/C 32 INITIAL CONDITIONS RTLT: 33h 24m 34s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLT 33h 24m 34s</p> <p>0000 RTLT 33h 24m 32s</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 9	
UTC: MAR 10 Page 18 of 19 MAR 11	

PDT:	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1
MONDAY MARCH 11, 2019 070-071																								
UTC:	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 36s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLT 40h 10m 34s</p>																							
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																							
31 DSN COVERAGE	<p>1210 ----- 14 [D] ----- 1535</p> <p>..... </p> <p>.....60..... </p>																							
32 DSN COVERAGE	<p>1520 ----- 34 [DAR] ----- 1920</p> <p>1520 ----- 36 [DA] ----- 1920</p>																							
S/C 32 INITIAL CONDITIONS RTLT: 33h 24m 32s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLT 33h 24m 30s</p>																							
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																							
VGR COVERAGE	ON CALL																							
NOTES																								
UTC:	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 11												MAR 12											