

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: March 10, 2010

For the Period: 30/11/2010 to 03/29/2010 (10-070 – 10-088)

**DSN OPSCHIEF (1) 230-102**

**SCIENCE**

**FLIGHT TEAM (15) 600-100**

**DSOT (1) 230-102**

- \*Zsarina.Bulchand@jpl.nasa.gov
- \*gdyke@airmail.ftops.jpl.nasa.gov
- \*John.M.Grant@jpl.nasa.gov
- \*dmcclena@airmail.ftops.jpl.nasa.gov
- \*pquach@airmail.ftops.jpl.nasa.gov
- \*mrobles@airmail.ftops.jpl.nasa.gov
- \*rwilliam@airmail.ftops.jpl.nasa.gov

- CRS \*bryant@mail630.gsfc.nasa.gov
- LECP \*r.decker@jhupl.edu
- UVS \*holberg@argus.lpl.arizona.edu
- MAG \*u2mha@lepvox.gsfc.nasa.gov
- PLS \*vgr@space.mit.edu
- PWS \*wsk@space.physics.uiowa.edu
- \*Leonard.F.Burlaga@nasa.gov
- \*Donald-Gurnett@uiowa.edu

- Hall, J.
- Howard, S. (3)
- Ludwig, R. (2)
- Massey, Ed
- Matsumoto, S.
- Medina, E.
- Peralta, F.
- Poynter, R.
- Weeks, T.
- Wong, R.
- Yang, L
- Zottarelli, L.

\*odivers1@san.rr.com

**OTHER**

- \* KMassey@jgld.gdscc.nasa.gov
- \* Belinda.Arroyo@jpl.nasa.gov
- \* DSN-MPSETA@jjpl.jpl.nasa.gov

**LEGEND:**

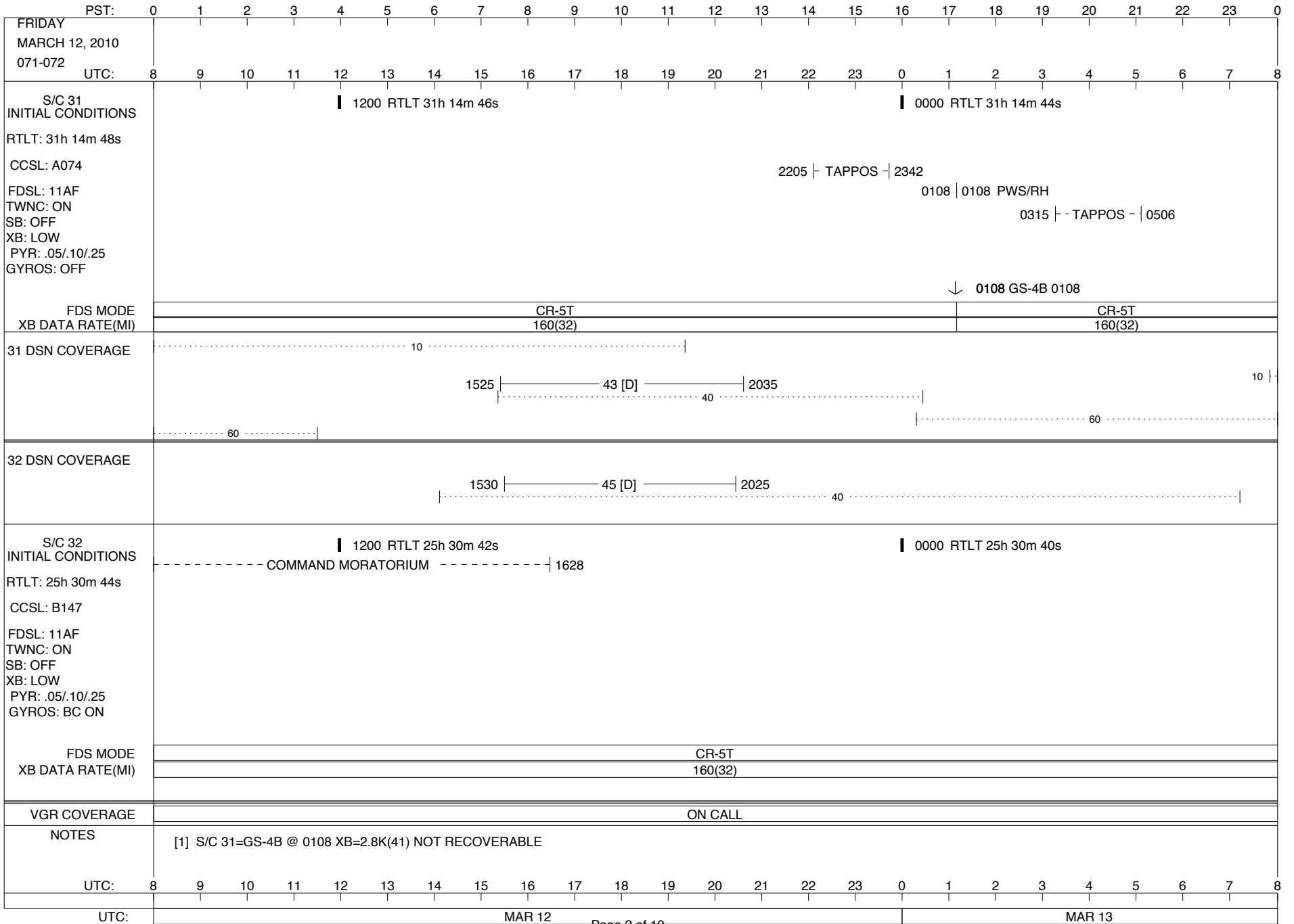
- ∇ = R/T Command (Last chance or Contingency)
- ▼ = R/T Command (Scheduled)
- \* = Result of R/T Command
- n = (where n = 1,2,3 ..) Special Note, see bottom of page
- A = Arrayed station
- B = 7-Point BLF
- D = Downlink only pass
- H = High Power Transmitter
- R = Array Reference Antenna
- T = TLC Uplink
- U = Uplink only pass
- [o] = Ramp-through

\*Electronic Copy Only  
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04/02/09

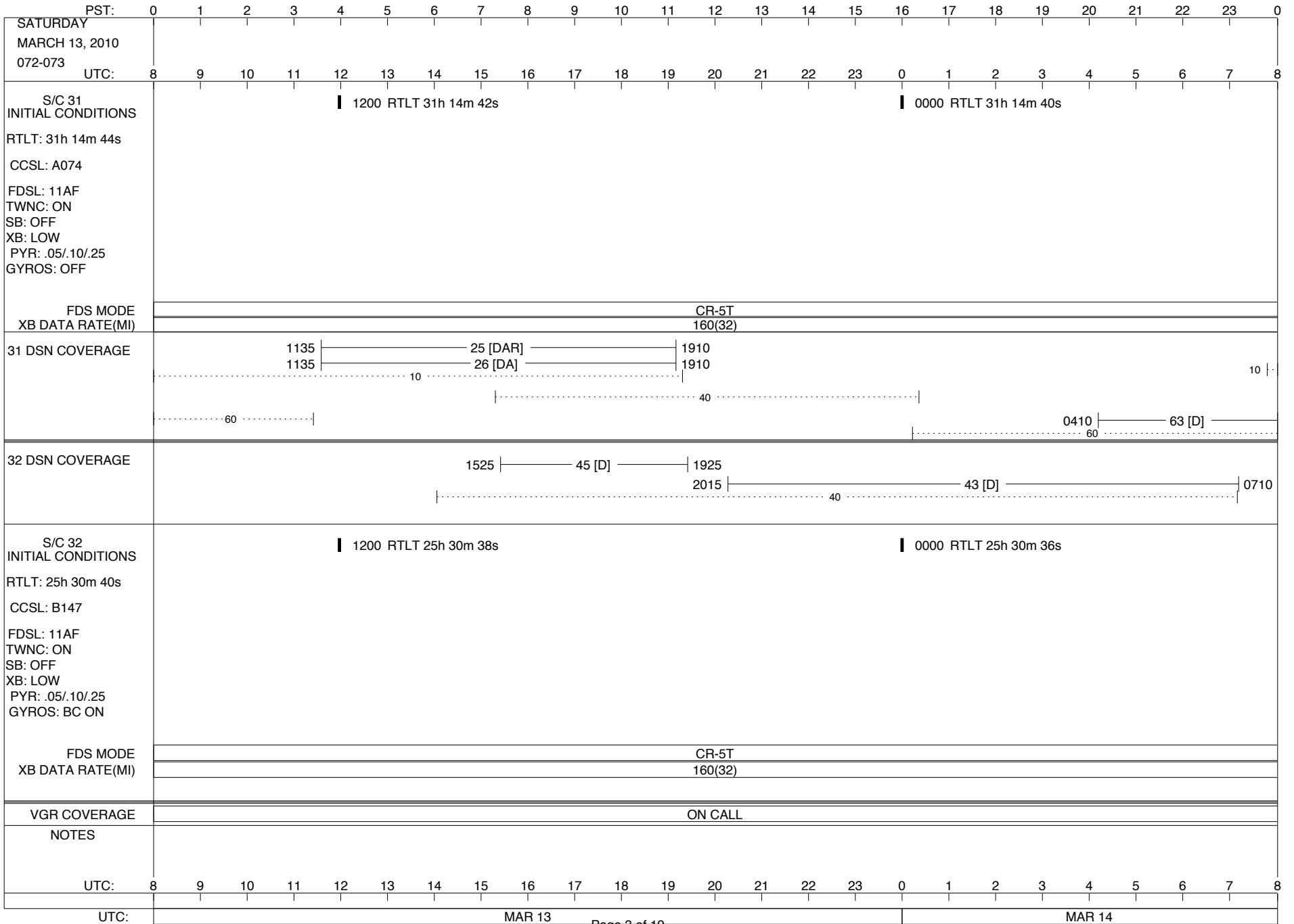
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THURSDAY MARCH 11, 2010 070-071																									
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S/C 31 INITIAL CONDITIONS RTLTL: 31h 14m 52s CCSL: A074 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLTL 31h 14m 50s												0000 RTLTL 31h 14m 48s												
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 RTLTL: 25h 30m 48s CCSL: B147 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: AC ON	1200 RTLTL 25h 30m 46s												0000 RTLTL 25h 30m 44s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL								VGR				ON CALL				VGR				ON CALL				
NOTES	<p>0800 ----- COMMAND MORATORIUM -----</p> <p>↓ 1759 GYROS BC ON ↓ 1759 GYRO INIT ↓ 1809 GYRO FAULT TEST</p> <p>1858    1905 CCSTIM(B)</p>																								
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 11												MAR 12												

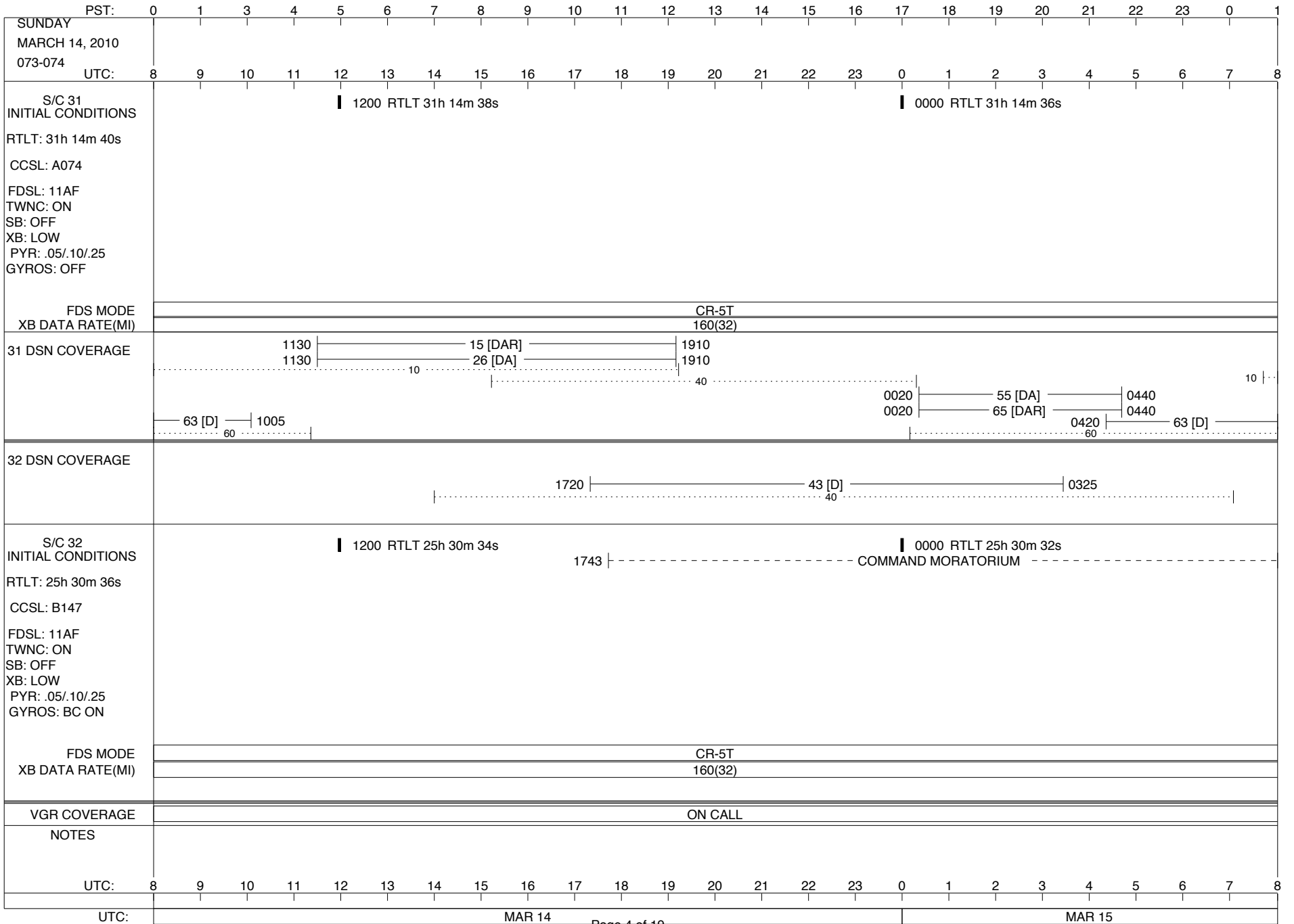
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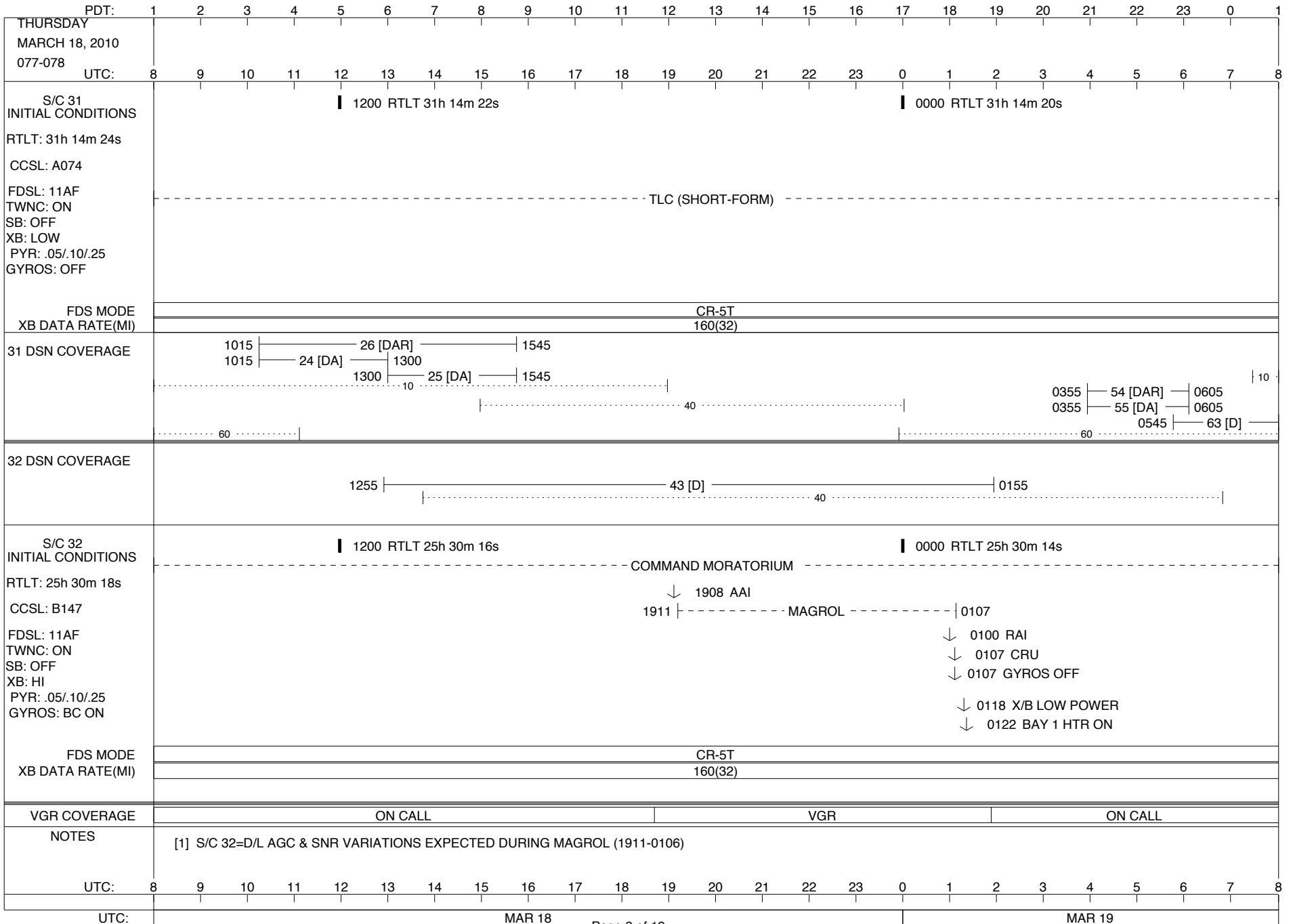
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TUESDAY MARCH 16, 2010 075-076																												
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S/C 31 INITIAL CONDITIONS RTLT: 31h 14m 32s CCSL: A074 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 31h 14m 30s												0000 RTLT 31h 14m 28s															
													1843   1844 PWS/RH															
													↓ 1843 GS-4B 1844															
FDS MODE	CR-5T												CR-5T															
XB DATA RATE(MI)	160(32)												160(32)															
31 DSN COVERAGE	0905   15 [DAR]   1445 0905   26 [DA]   1445												10															
	63 [D]   0900   60												40   0410   55 [DA]   0515 60   0410   65 [DAR]   60															
32 DSN COVERAGE	1515   45 [D]   1830												40   0025   43 [B]   0515															
S/C 32 INITIAL CONDITIONS RTLT: 25h 30m 28s CCSL: B147 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON	1200 RTLT 25h 30m 26s												0000 RTLT 25h 30m 22s															
	----- COMMAND MORATORIUM -----   1713												▼ 0042 DUMMY (5 MIN BRACKETED 02:13)															
FDS MODE													CR-5T															
XB DATA RATE(MI)													160(32)															
VGR COVERAGE	ON CALL												VGR				ON CALL											
NOTES	[1] S/C 31=GS-4B @ 1843 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 16														MAR 17													

ISSUE DATE: 03/10/10 21:55

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WEDNESDAY MARCH 17, 2010 076-077																																
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S/C 31 INITIAL CONDITIONS RTLT: 31h 14m 28s CCSL: A074 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 31h 14m 26s												█ 0000 RTLT 31h 14m 24s																			
FDS MODE															CR-5T																	
XB DATA RATE(MI)															160(32)																	
31 DSN COVERAGE																																
32 DSN COVERAGE																																
S/C 32 INITIAL CONDITIONS RTLT: 25h 30m 22s CCSL: B147 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON	█ 1200 RTLT 25h 30m 20s												█ 0000 RTLT 25h 30m 18s																			
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:	MAR 17														MAR 18																	

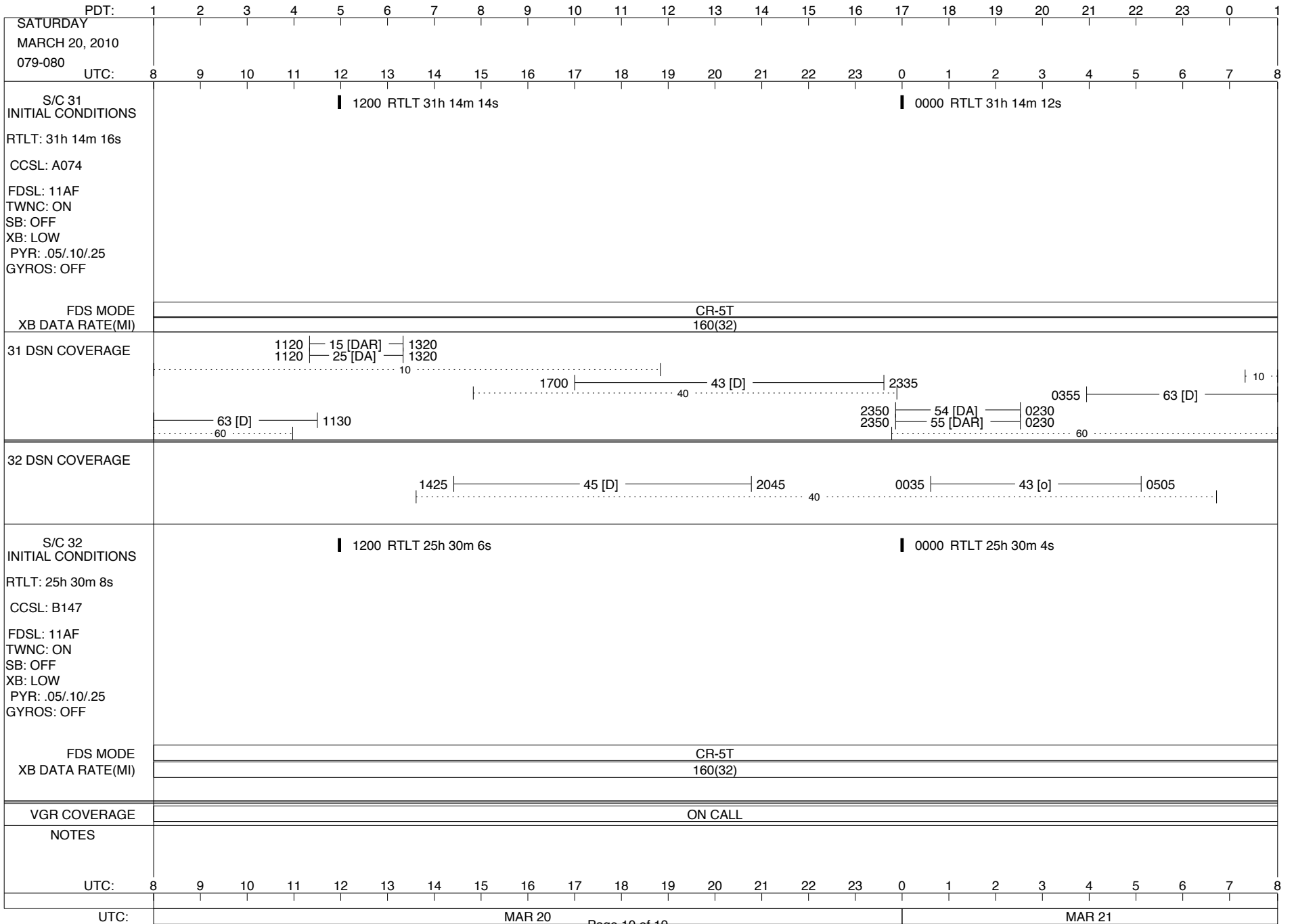




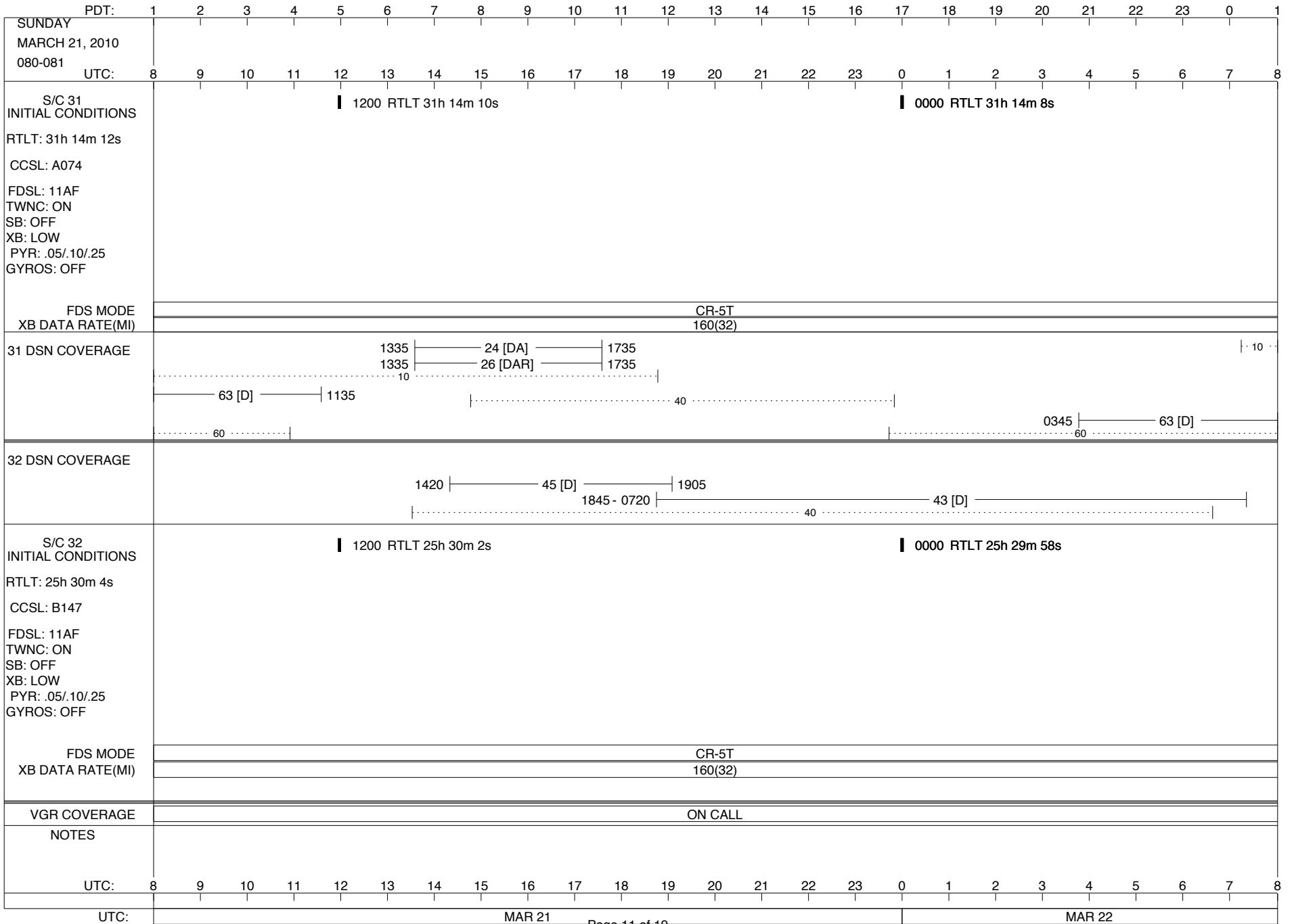
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UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8					
FRIDAY MARCH 19, 2010 078-079																														
S/C 31 INITIAL CONDITIONS RTLTL: 31h 14m 20s CCSL: A074 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 31h 14m 18s												0000 RTLT 31h 14m 16s																	
TLC (SHORT-FORM) + D/L -  1212															2141   - TAPPOS - -  2346				0043   0044 PWS/RH								0251   - - TAPPOS - -  0509			
FDS MODE	CR-5T														CR-5T															
XB DATA RATE(MI)	160(32)														160(32)															
31 DSN COVERAGE	1125   15 [DAR]   1445 1125   26 [DA]   1445												10																	
	63 [D]   1145						40												0140   63 [D]						60					
32 DSN COVERAGE	1705   43 [D]   0230												40																	
S/C 32 INITIAL CONDITIONS RTLTL: 25h 30m 14s CCSL: B147 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 25h 30m 12s												0000 RTLT 25h 30m 8s																	
	----- COMMAND MORATORIUM -----  2337																													
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 @ 0043 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 19														MAR 20															

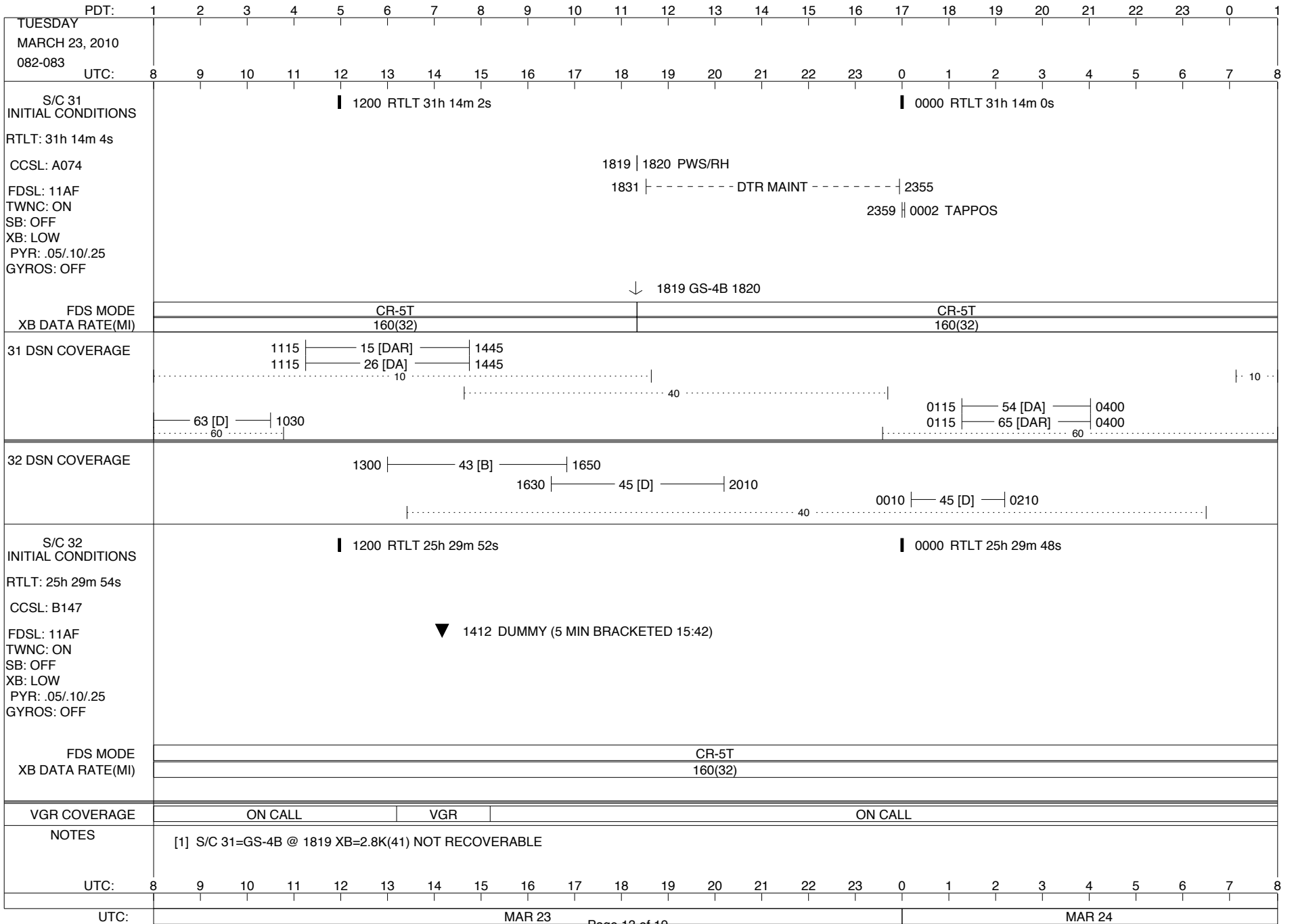
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PDT:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1			
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8			
WEDNESDAY MARCH 24, 2010 083-084																												
S/C 31 INITIAL CONDITIONS RTLT: 31h 14m 0s CCSL: A074 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 31h 13m 58s														0000 RTLT 31h 13m 56s													
FDS MODE XB DATA RATE(MI)															CR-5T 160(32)													
31 DSN COVERAGE	0915  ----- 24 [DAR] -----  1445 0915  ----- 25 [DA] -----  1445 ..... ----- 10 -----  ..... ----- 40 -----  ..... ----- 60 -----														25 [DA] 0705 26 [DAR] 0705 ..... ----- 10 -----  0230  ----- 55 [DA] -----  0645 0230  ----- 65 [DAR] -----  0645 ..... ----- 60 -----													
32 DSN COVERAGE	1445  ----- 45 [D] -----  2045 ..... ----- 40 -----																											
S/C 32 INITIAL CONDITIONS RTLT: 25h 29m 48s CCSL: B147 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 25h 29m 46s														0000 RTLT 25h 29m 44s													
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 24														MAR 25													

ISSUE DATE: 03/10/10 21:55

PDT:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1
THURSDAY MARCH 25, 2010 084-085																									
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: 31h 13m 56s CCSL: A074 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 31h 13m 54s												█ 0000 RTLT 31h 13m 52s												
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
31 DSN COVERAGE	<p>31 DSN COVERAGE</p> <p>25 [DA] 1315   10   26 [DAR] 1315</p> <p>1500   43   1715   40</p> <p>2350   55 [DA] 0345   63 [T] 0350</p> <p>2350   65 [DAR] 0350   60</p>																								
32 DSN COVERAGE	<p>32 DSN COVERAGE</p> <p>1405   45 [D]   1910   40</p>																								
S/C 32 INITIAL CONDITIONS RTLT: 25h 29m 44s CCSL: B147 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 25h 29m 40s												█ 0000 RTLT 25h 29m 38s												
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:	MAR 25												MAR 26												



ISSUE DATE: 03/10/10 21:55

PDT:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1		
FRIDAY MARCH 26, 2010 085-086																											
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 31h 13m 50s													0000 RTLT 31h 13m 50s													
RTLTL: 31h 13m 52s	----- TLC (SHORT FORM) -----																										
CCSL: A074																											
FDSL: 11AF														2117  --- TAPPOS ---  2349													
TWNC: ON														0019   0020 PWS/RH													
SB: OFF														0226  --- TAPPOS ---  0445													
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	<p>..... 10 .....</p> <p>63 [T]  -----  1040</p> <p>..... 40 .....</p> <p>..... 10 .....</p> <p>60 .....</p> <p>0055  -----  63 [D]</p> <p>..... 60 .....</p>																										
32 DSN COVERAGE	<p>1455  -----  43 [o] -----  2105</p> <p>..... 40 .....</p> <p>0110  -----  43 [D] -----  0515</p>																										
S/C 32 INITIAL CONDITIONS	1200 RTLT 25h 29m 36s													0000 RTLT 25h 29m 32s													
RTLTL: 25h 29m 38s																											
CCSL: B147																											
FDSL: 11AF																											
TWNC: ON																											
SB: OFF																											
XB: LOW																											
PYR: .05/10/25																											
GYROS: OFF																											
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
VGR COVERAGE	ON CALL																										
NOTES	[1] S/C 31=GS-4B @ 0019 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 26													MAR 27													

ISSUE DATE: 03/10/10 21:55

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SATURDAY MARCH 27, 2010 086-087																										
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 31h 13m 48s												0000 RTLT 31h 13m 46s													
RTLT: 31h 13m 50s	---																									
CCSL: A074	TLC (SHORT FORM) -- + D/L -   1252																									
FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF																										
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
31 DSN COVERAGE	<p>Detailed description of 31 DSN COVERAGE chart: The chart shows data coverage from UTC 0800 to 0800. Key events include: 1045-1250 [25 [DA] and 26 [DAR]] with a 10-minute gap; 0250-0555 [54 [DAR] and 55 [DA]] with a 60-minute gap; 0630-1010 [63 [D]] with a 60-minute gap; and 1435-2155 [45 [D]] with a 40-minute gap.</p>																									
32 DSN COVERAGE	<p>Detailed description of 32 DSN COVERAGE chart: The chart shows data coverage from UTC 0800 to 0800. Key event: 1435-2155 [45 [D]] with a 40-minute gap.</p>																									
S/C 32 INITIAL CONDITIONS	1200 RTLT 25h 29m 30s												0000 RTLT 25h 29m 28s													
RTLT: 25h 29m 32s																										
CCSL: B147																										
FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF																										
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:	MAR 27												MAR 28													

ISSUE DATE: 03/10/10 21:55

PDT:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1			
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			
SUNDAY MARCH 28, 2010 087-088																												
S/C 31 INITIAL CONDITIONS RTLTL: 31h 13m 46s CCSL: A074 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 31h 13m 44s														0000 RTLT 31h 13m 42s													
FDS MODE XB DATA RATE(MI)															CR-5T 160(32)													
31 DSN COVERAGE																												
32 DSN COVERAGE																												
S/C 32 INITIAL CONDITIONS RTLTL: 25h 29m 28s CCSL: B147 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 25h 29m 24s														0000 RTLT 25h 29m 22s													
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 28														MAR 29													

ISSUE DATE: 03/10/10 21:55

PDT:	1	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 29, 2010 088-089																										
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: 31h 13m 42s CCSL: A074 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 31h 13m 40s</p> </div>																									
FDS MODE														CR-5T												
XB DATA RATE(MI)														160(32)												
31 DSN COVERAGE	<div style="text-align: center;"> <p>..... 10 .....</p> <p>..... 40 .....</p> <p>63 [D] 1020</p> <p>60 .....</p> </div>																									
32 DSN COVERAGE																										
S/C 32 INITIAL CONDITIONS RTLT: 25h 29m 22s CCSL: B147 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 25h 29m 20s</p> </div>																									
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:	MAR 29													MAR 30												