

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: March 9, 2016

For the Period: 03/10/16 to 03/27/16 (16-070 – 16-087)

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

**DSOT (1) 230-102**

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**SCIENCE**

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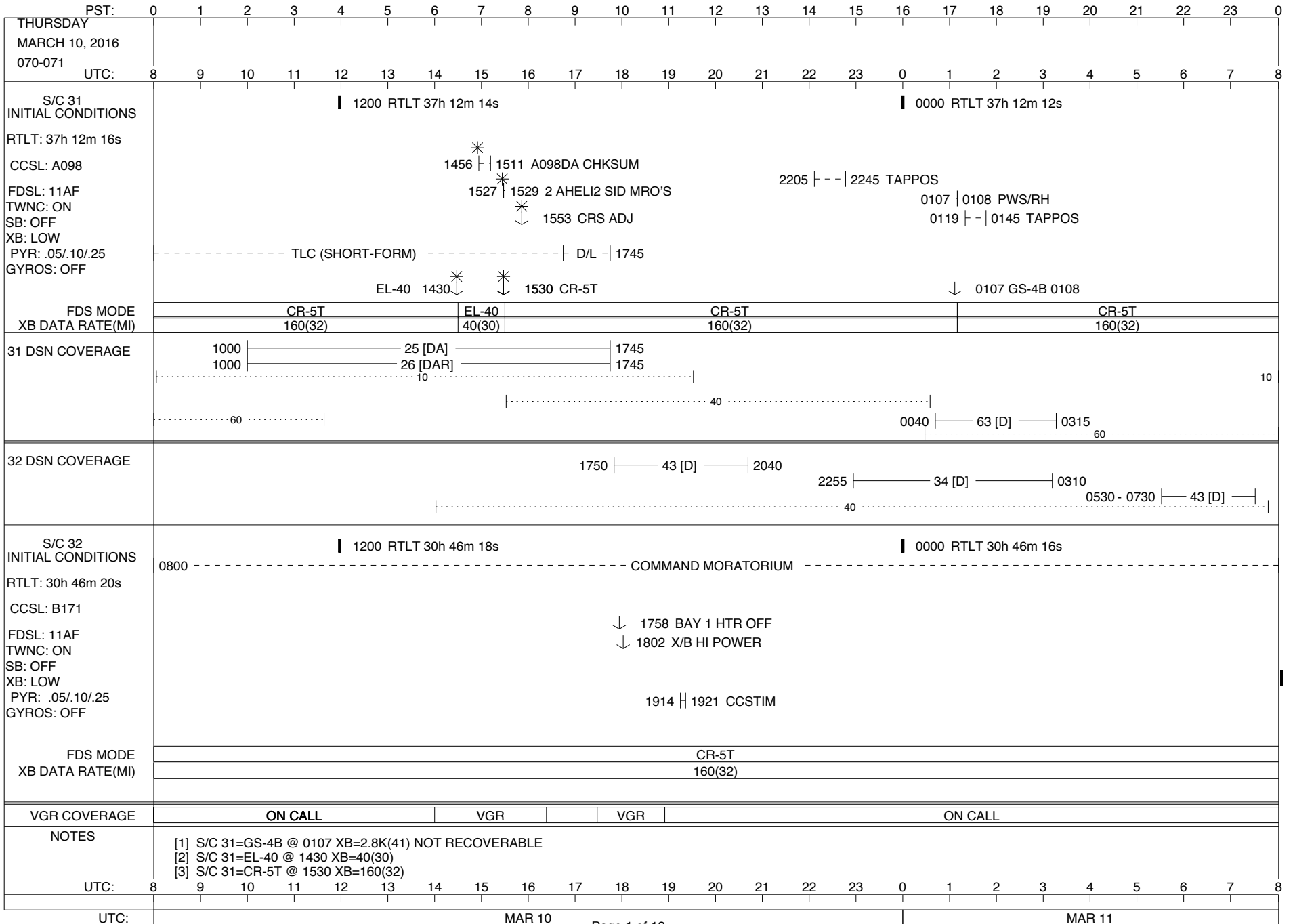
**FLIGHT TEAM (14) 600-100**

Dodd, S.  
 Hall, J.  
 Howard, S. (3)  
 Ludwig, R. (2)  
 Matsumoto, S.  
 Medina  
 Peralta, F.  
 Weeks, T.  
 Wong, R.  
 Yang, L.  
 Zottarelli, L.  
 \*odivers@san.rr.com

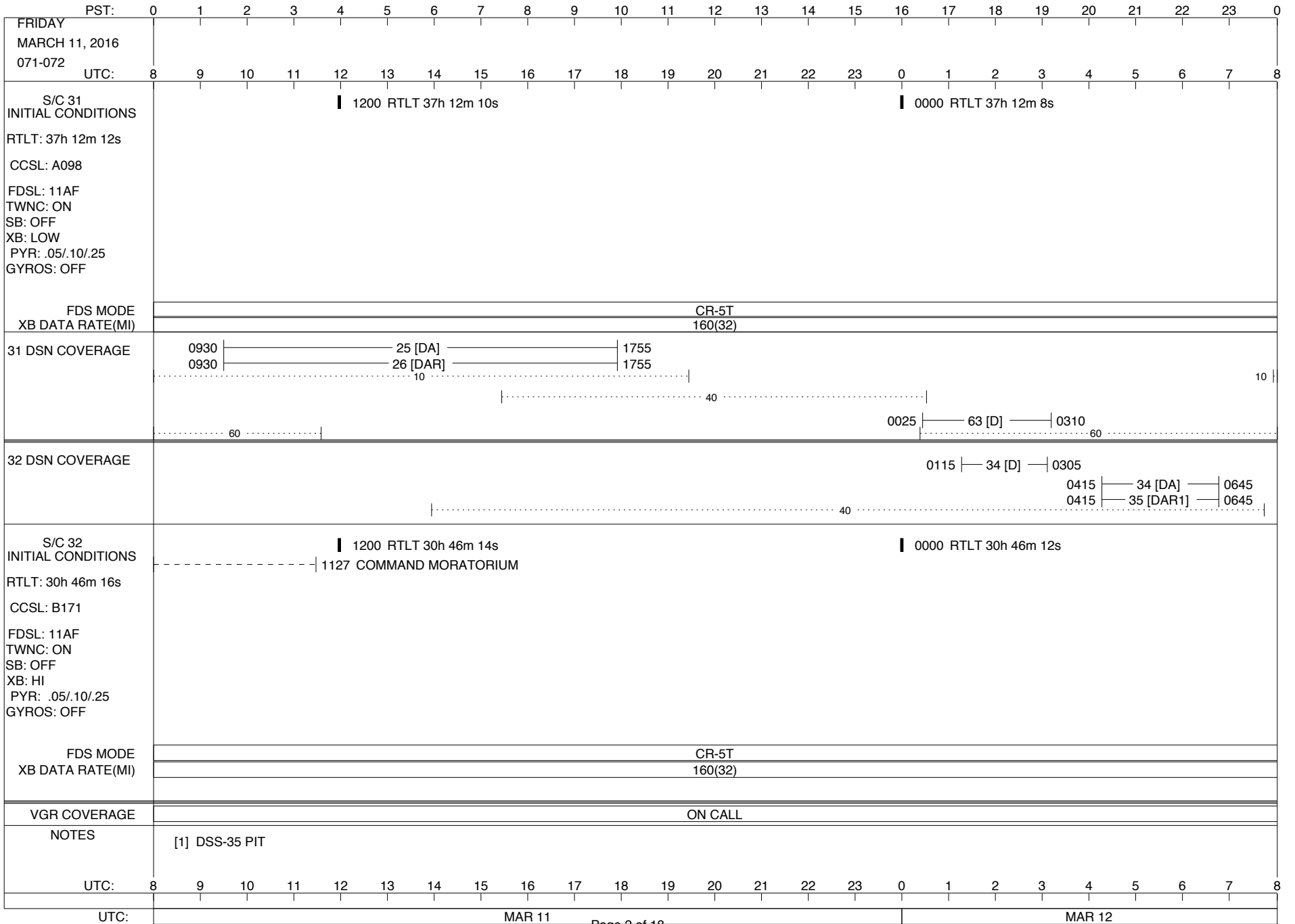
**LEGEND:**  
 ▽ = R/T Command (Last chance or Contingency)  
 ▼ = R/T Command (Scheduled)  
 \* = Result of R/T Command  
 n = (where n = 1,2,3 ..) Special Note, see bottom of page  
 A = Arrayed station  
 B = BLF  
 D = Downlink only pass  
 H = High Power Transmitter  
 R = Array Reference Antenna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

\*Electronic Copy Only  
 (16 – Dist/N: Paper Copies)  
 09/08/10

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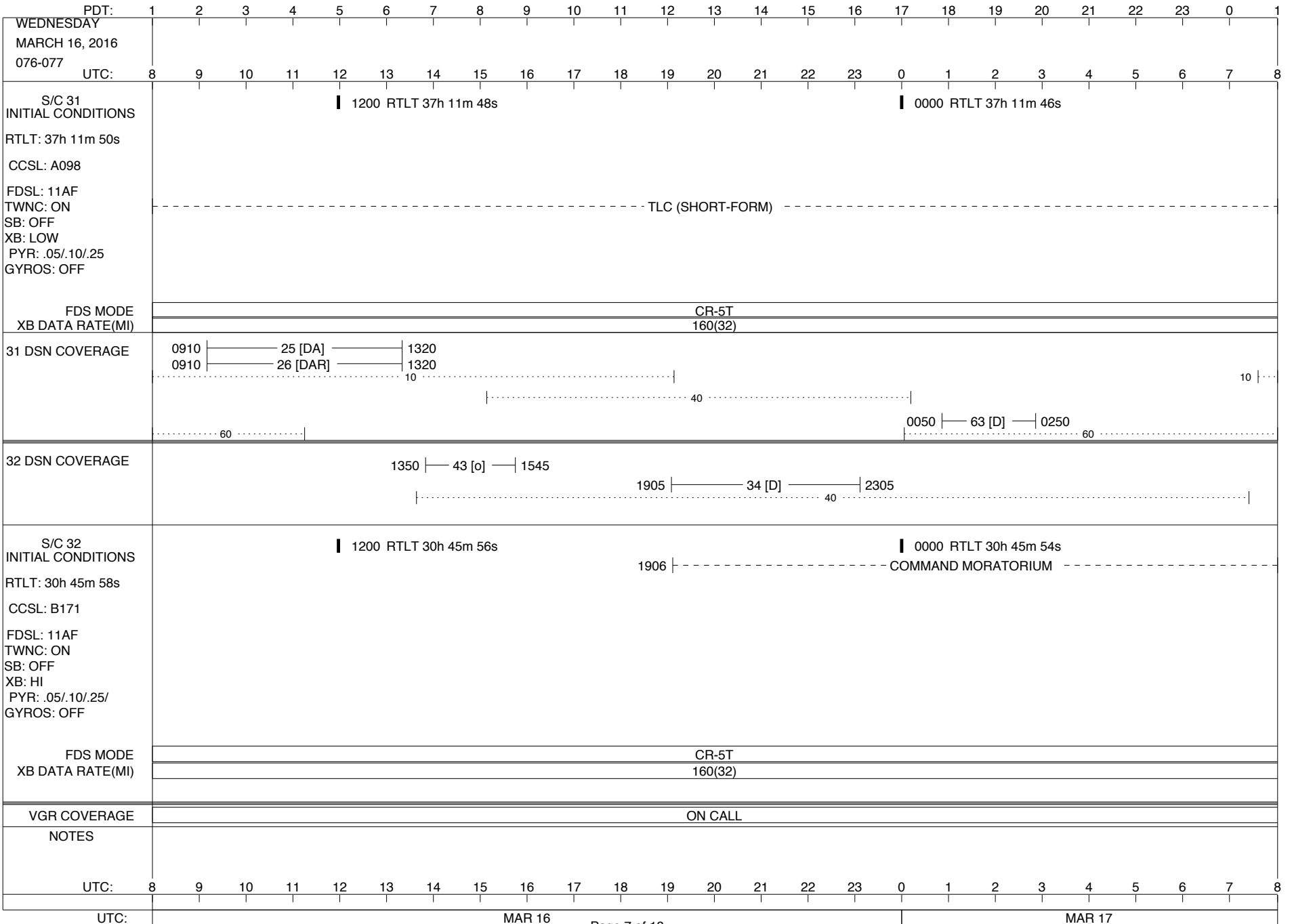


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SUNDAY MARCH 13, 2016 073-074	UTC: 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9		
S/C 31 INITIAL CONDITIONS RTLT: 37h 12m 4s CCSL: A098 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 37h 12m 2s													0000 RTLT 37h 12m 0s														
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)														
31 DSN COVERAGE	.....  10 .....													.....  40 .....														
	.....  60 .....													0015   63 [D]   0255 .....  60 .....														
32 DSN COVERAGE														2125   40 .....  34 [o] .....  0255 .....														
S/C 32 INITIAL CONDITIONS RTLT: 30h 46m 8s CCSL: B171 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/10/25 GYROS: OFF	1200 RTLT 30h 46m 6s													0000 RTLT 30h 46m 6s														
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	9		
UTC:	MAR 13														MAR 14													

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 14, 2016 074-075																								
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S/C 31 INITIAL CONDITIONS RTLTL: 37h 12m 0s CCSL: A098 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 37h 11m 56s												0000 RTLT 37h 11m 54s											
FDS MODE													CR-5T											
XB DATA RATE(MI)													160(32)											
31 DSN COVERAGE	<p>1320   15 [DA]   1745 1320   24 [DAR]   1745 10   40   10   60   0040   63 [D]   0300   60</p>																							
32 DSN COVERAGE	<p>1835   43 [D]   2055   40   0445 - 0730   43 [D]</p>																							
S/C 32 INITIAL CONDITIONS RTLTL: 30h 46m 6s CCSL: B171 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 30h 46m 4s												0000 RTLT 30h 46m 2s											
FDS MODE													CR-5T											
XB DATA RATE(MI)													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 14												MAR 15											

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			
TUESDAY MARCH 15, 2016 075-076																												
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: 37h 11m 54s CCSL: A098 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 37h 11m 52s														0000 RTLT 37h 11m 50s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)														CR-5T 160(32)													
31 DSN COVERAGE	<p>0915   15 [DAR]   1300 0915   26 [DA]   1300 ..... 10 ..... ..... 40 ..... 0010   63 [T]   0410 ..... 60 .....</p>																											
32 DSN COVERAGE	<p>1650   35 [DAR]   1820 1650   45 [DA]   2145 ..... 40 ..... 0530 - 0725   43 [D]  </p>																											
S/C 32 INITIAL CONDITIONS RTLT: 30h 46m 2s CCSL: B171 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 30h 46m 0s														0000 RTLT 30h 45m 58s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																											
VGR COVERAGE	ON CALL														VGR				ON CALL									
NOTES	[1] S/C 31=GS-4B @ 1830 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 15														MAR 16													

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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	
THURSDAY MARCH 17, 2016 077-078																										
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: 37h 11m 46s CCSL: A098 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLTL 37h 11m 44s</p> <p>2141   -   2207 TAPPOS</p> <p>TLC (SHORT-FORM) -----   D/L -   1550</p> <p>0043   0044 PWS/RH</p> <p>0054     0107 TAPPOS</p> <p>↓ 0042 GS-4B 0044</p>												<p>0000 RTLTL 37h 11m 42s</p>													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)													
31 DSN COVERAGE	<p>1225  -----  24 [DA]  -----  1640</p> <p>1225  -----  25 [DAR]  -----  1640</p> <p>..... -----  10 ..... -----  40 ..... -----  60 ..... -----  10</p>																									
32 DSN COVERAGE													<p>1830  -----  43 [DAo]  -----  0215</p> <p>1855  -----  45 [DAR]  -----  0215</p> <p>..... -----  40 ..... ----- </p>													
S/C 32 INITIAL CONDITIONS RTLTL: 30h 45m 54s CCSL: B171 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25/ GYROS: OFF	<p>1200 RTLTL 30h 45m 52s</p> <p>COMMAND MORATORIUM</p> <p>↓ 1909 TEMP CRS CMD WORDS</p>												<p>0000 RTLTL 30h 45m 50s</p> <p>↓ 0125 X/B LOW POWER</p> <p>↓ 0129 BAY 1 HTR ON</p> <p>↓ 0135 RESTORE CRS CMD WORDS</p>													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																									
VGR COVERAGE	ON CALL												VGR ON CALL													
NOTES	[1] S/C 31=GS-4B @ 0042 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 17												MAR 18													

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 18, 2016 078-079																									
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: 37h 11m 42s CCSL: A098 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 37h 11m 40s												█ 0000 RTLT 37h 11m 38s												
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
31 DSN COVERAGE	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>1225  -----  15 [DAR]  -----  1730</p> <p>1225  -----  24 [DA]  -----  1730</p> <p>..... -----  10 ..... -----  40 ..... -----  60 ..... </p> </div> <div style="width: 45%;"> <p>2355  -----  63 [D]  -----  0245</p> <p>..... -----  60 ..... ----- </p> </div> </div>																								
32 DSN COVERAGE	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>2200  -----  34 [o]  -----  0130</p> <p>..... -----  40 ..... ----- </p> </div> <div style="width: 45%;"> <p>0200  -----  35 [DAR]  -----  0615</p> <p>0235  -----  45 [DA]  -----  0615</p> <p>..... ----- </p> </div> </div>																								
S/C 32 INITIAL CONDITIONS RTLT: 30h 45m 50s CCSL: B171 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	█ 1200 RTLT 30h 45m 46s												█ 0000 RTLT 30h 45m 44s												
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
VGR COVERAGE	ON CALL												VGR ON CALL												
NOTES	----- COMMAND MORATORIUM -----  1843																								
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 18												MAR 19												

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	
SATURDAY MARCH 19, 2016 079-080																										
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: 37h 11m 38s CCSL: A098 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: BC ON	█ 1200 RTLT 37h 11m 36s												█ 0000 RTLT 37h 11m 34s													
													0041   0053 TAPPOS 0342   0344 PWS/RH 0354   0356 TAPPOS													
													↓ 0342 GS-4B 0344													
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
31 DSN COVERAGE	1325   15 [DA]   1725 1325   24 [DAR]   1725												2355   63 [D]   0240													
	..... 60 .....												..... 60 .....													
32 DSN COVERAGE	1805   45 [D]   1910 2025   34 [D]   0235												0415   43 [D]   0710													
	..... 40 .....												..... 40 .....													
S/C 32 INITIAL CONDITIONS RTLT: 30h 45m 44s CCSL: B171 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	█ 1200 RTLT 30h 45m 42s												█ 0000 RTLT 30h 45m 40s													
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 @ 0342 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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SUNDAY MARCH 20, 2016 080-081																												
S/C 31 INITIAL CONDITIONS RTLT: 37h 11m 34s CCSL: A098 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: BC ON	█ 1200 RTLT 37h 11m 32s												█ 0000 RTLT 37h 11m 30s															
														↓ 1641 GYRO INIT														
FDS MODE														CR-5T														
XB DATA RATE(MI)														160(32)														
31 DSN COVERAGE	1220  -----  15 [DAR]  -----  1720												-----  10  -----															
	1220  -----  24 [DA]  -----  1720												-----  40  -----															
	-----  60  -----												0125  -----  54 [DA]  -----  0525															
	-----												0125  -----  65 [DAR]  -----  0525															
	-----												-----  60  -----															
32 DSN COVERAGE																												
	-----												1815  -----  34 [o]  -----  0155															
	-----												-----  40  -----															
S/C 32 INITIAL CONDITIONS RTLT: 30h 45m 40s CCSL: B171 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	█ 1200 RTLT 30h 45m 38s												█ 0000 RTLT 30h 45m 36s															
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 20														MAR 21													







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			
THURSDAY MARCH 24, 2016 084-085																												
S/C 31 INITIAL CONDITIONS RTLTL: 37h 11m 18s CCSL: A098 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: BC ON	1200 RTLTL 37h 11m 16s TAPPOS 2117   2129 PWS/RH 0019   0020 TAPPOS 0030   0056 D/L -   1509														0000 RTLTL 37h 11m 16s 0118 BAY 1 HTR OFF 0122 X/B HIGH POWER 0142 AAI 0145-0740  -----MAGROL-----  RAI 0733 ↓ GYROS OFF 0740 ↓ CRU 0740 ↓ X/B LOW POWER 0743 ↓ BAY 1 HTR ON 0747 ↓ 0018 GS-4B 0020													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)														CR-5T 160(32)													
31 DSN COVERAGE	1105  -----24 [DA]-----  1645 1105  -----25 [DAR]-----  1645 .....10..... .....60..... .....40..... 2335  -----63 [DA]-----  0100  -----54 [DA]-----  0100  -----55 [DAR]-----  .....60.....																											
32 DSN COVERAGE	0050   34 [D]   0215 .....40..... 0300  -----43 [B]-----  0650																											
S/C 32 INITIAL CONDITIONS RTLTL: 30h 45m 22s CCSL: B171 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 30h 45m 20s														0000 RTLTL 30h 45m 18s DUMMY (5 MIN BRACKETED 11:03) 0417 ▼													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																											
VGR COVERAGE	ON CALL														VGR													
NOTES	[1] S/C 31=GS-4B @ 0018 XB=2.8K(41) NOT RECOVERABLE [2] S/C 31=D/L AGC & SNR VARIATIONS EXPECTED DURING MAGROL (0145-0740)																											
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													



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 25, 2016 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 RTLT: 37h 11m 16s CCSL: A098 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 37h 11m 14s												█ 0000 RTLT 37h 11m 12s													
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
31 DSN COVERAGE	.....10.....												.....10.....													
	63 [DA]   1025												40.....													
	54 [DA]   0930												0500   65 [DAR]													
	55 [DAR]   0930												0500   54 [DA]													
	60.....												.....60.....													
32 DSN COVERAGE	1300   43 [o]   1700												2105   34 [D]   0210													
	.....												.....40.....													
S/C 32 INITIAL CONDITIONS RTLT: 30h 45m 18s CCSL: B171 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	█ 1200 RTLT 30h 45m 16s												█ 0000 RTLT 30h 45m 12s													
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
VGR COVERAGE	ON CALL												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: 03/10/16 11:38

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
SATURDAY MARCH 26, 2016 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 RTLT: 37h 11m 12s CCSL: A098 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 37h 11m 10s												█ 0000 RTLT 37h 11m 8s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	<p>..... 10 .....  </p> <p>..... 40 .....   ..... 10 .....</p> <p>65 [DAR]   0925</p> <p>54 [DA]   0925</p> <p>..... 60 .....</p>																								
32 DSN COVERAGE	<p>..... 1915   ..... 34 [o] ..... 2350</p> <p>..... 40 .....</p>																								
S/C 32 INITIAL CONDITIONS RTLT: 30h 45m 12s CCSL: B171 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	█ 1200 RTLT 30h 45m 10s												█ 0000 RTLT 30h 45m 8s												
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 @ 0318 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: 03/10/16 11:38

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		
SUNDAY MARCH 27, 2016 087-088																											
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	<p>1200 RTLT 37h 11m 6s</p> <p>RTLT: 37h 11m 8s</p> <p>CCSL: A098</p> <p>FDSL: 11AF</p> <p>TWNC: ON</p> <p>SB: OFF</p> <p>XB: LOW</p> <p>PYR: .05/.10/.25</p> <p>GYROS: OFF</p>																										
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
31 DSN COVERAGE	<p>1220 [DAR] 1620</p> <p>1220 [DA] 1620</p> <p>10</p> <p>60</p> <p>40</p>																										
32 DSN COVERAGE																											
S/C 32 INITIAL CONDITIONS	<p>1200 RTLT 30h 45m 6s</p> <p>RTLT: 30h 45m 8s</p> <p>CCSL: B171</p> <p>FDSL: 11AF</p> <p>TWNC: ON</p> <p>SB: OFF</p> <p>XB: LOW</p> <p>PYR: .05/.10/.25/</p> <p>GYROS: OFF</p>																										
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													