

VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: March 31, 2010

For the Period: 4/1/2010 to 04/19/2010 (10-092 – 10-109)

DSN OPSCHIEF (1) 230-102

SCIENCE

FLIGHT TEAM (15) 600-100

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

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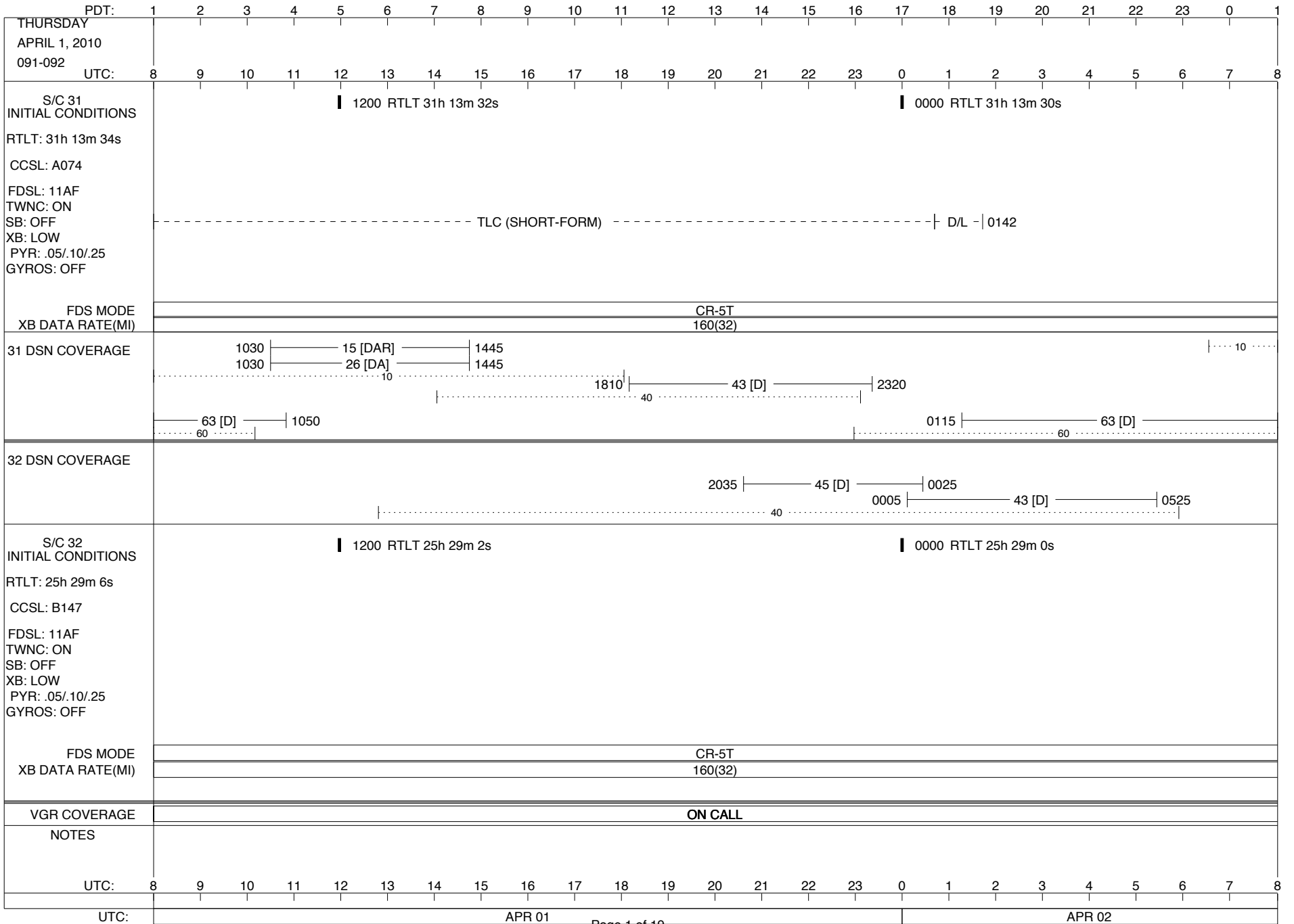
OTHER

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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

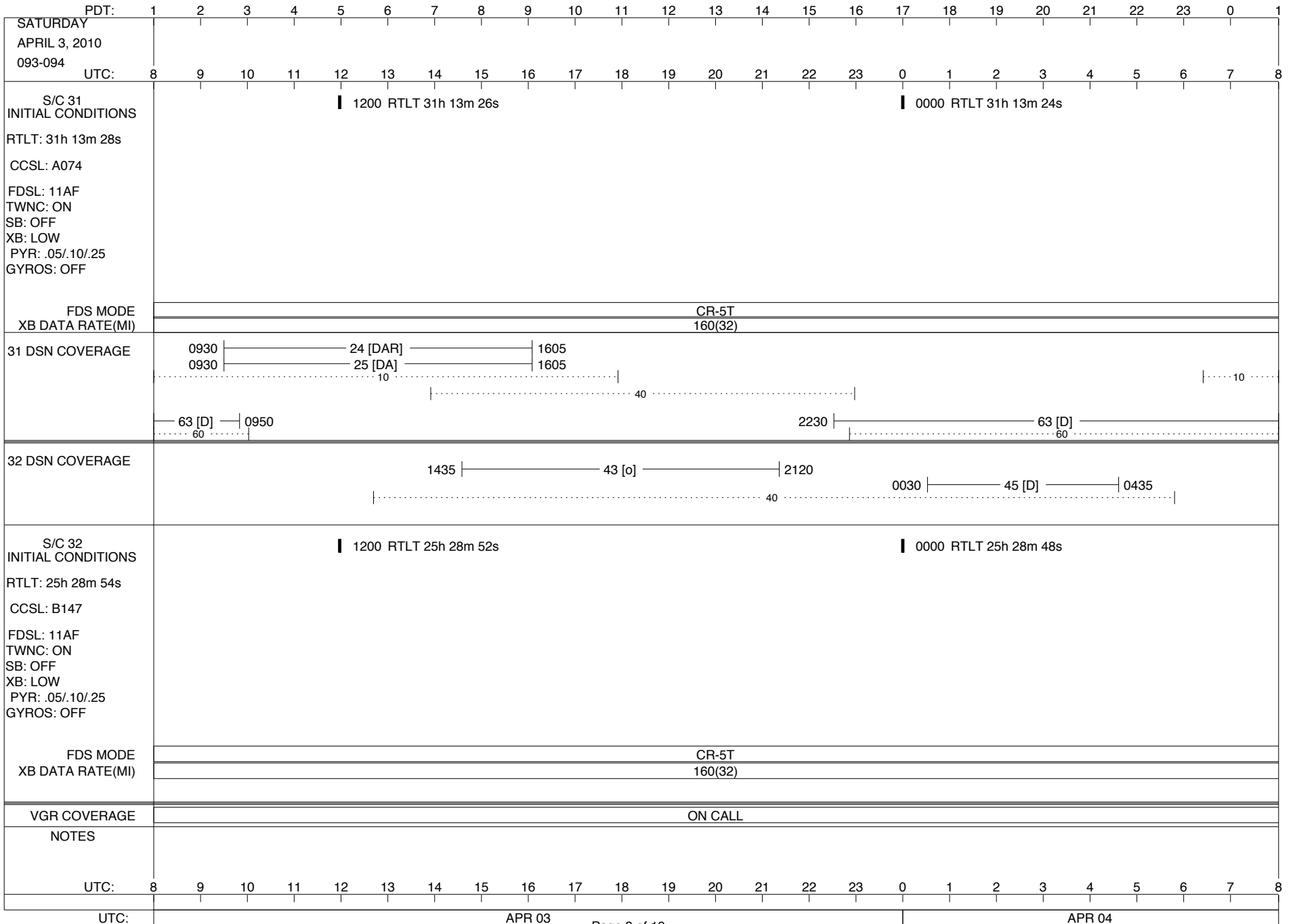
*Electronic Copy Only
(17 – Dist/N: Paper Copies)
04/02/09



ISSUE DATE: 03/31/10 15:39

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FRIDAY APRIL 2, 2010 092-093																										
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S/C 31 INITIAL CONDITIONS RTLT: 31h 13m 30s CCSL: A074 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	█ 1200 RTLT 31h 13m 28s												█ 0000 RTLT 31h 13m 28s													
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
31 DSN COVERAGE	..... 10 .....												..... 10											
	..... 40 .....												..... 40											
	63 [D] | 1050												0300 | 63 [D]													
	60												60													
32 DSN COVERAGE	..... 1440 | 43 [B] | 1725												..... 2205 | 43 [D] | 0415											
	..... 40 .....												..... 40											
S/C 32 INITIAL CONDITIONS RTLT: 25h 29m 0s CCSL: B147 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	█ 1200 RTLT 25h 28m 58s												█ 0000 RTLT 25h 28m 54s													
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 @ 2355 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: 03/31/10 15:39



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SUNDAY APRIL 4, 2010 094-095																												
S/C 31 INITIAL CONDITIONS RTLT: 31h 13m 24s CCSL: A074 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 31h 13m 24s														0000 RTLT 31h 13m 22s													
FDS MODE XB DATA RATE(MI)															CR-5T 160(32)													
31 DSN COVERAGE	<p>Detailed description of 31 DSN COVERAGE chart: The chart shows data rates and durations from UTC 08:00 to 09:00. Key events include: 1020-1610 [DAR] and [DA] coverage; 1020-1610 [DA] coverage; 63 [D] duration from 08:00 to 08:33; 1040 duration from 08:33 to 08:40; 40 duration from 08:40 to 08:50; 0445 duration from 08:50 to 08:55; 63 [D] duration from 08:55 to 09:00.</p>																											
32 DSN COVERAGE	<p>Detailed description of 32 DSN COVERAGE chart: The chart shows data rates and durations from UTC 08:00 to 09:00. Key events include: 1420-1850 [D] coverage; 1830-0015 [D] coverage; 43 [D] duration from 08:30 to 08:40; 40 duration from 08:40 to 08:50.</p>																											
S/C 32 INITIAL CONDITIONS RTLT: 25h 28m 48s CCSL: B147 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 25h 28m 46s														0000 RTLT 25h 28m 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	9		
UTC:	APR 04														APR 05													

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MONDAY APRIL 5, 2010 095-096																															
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S/C 31 INITIAL CONDITIONS RTLTL: 31h 13m 22s CCSL: A074 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 31h 13m 22s														0000 RTLT 31h 13m 20s																
FDS MODE XB DATA RATE(MI)															CR-5T 160(32)																
31 DSN COVERAGE	<p>Timeline for 31 DSN COVERAGE:</p> <ul style="list-style-type: none"> 0930 63 [D] (09:30 - 10:30) 15 [DAR] (09:10 - 10:25) 25 [DA] (09:10 - 10:25) 0910 - 1425 (09:10 - 14:25) 0910 - 1425 (09:10 - 14:25) 10 (09:10 - 10:00) 40 (10:00 - 14:00) 0110 (01:10 - 02:00) 63 [D] (01:10 - 02:13) 60 (01:10 - 02:10) 																														
32 DSN COVERAGE	<p>Timeline for 32 DSN COVERAGE:</p> <ul style="list-style-type: none"> 1415 (14:15 - 15:00) 43 [D] (14:15 - 18:48) 2140 (21:40 - 22:30) 0130 (01:30 - 02:05) 45 [D] (01:30 - 02:15) 0350 (03:50 - 04:35) 40 (14:15 - 18:55) 																														
S/C 32 INITIAL CONDITIONS RTLTL: 25h 28m 44s CCSL: B147 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 25h 28m 40s														0000 RTLT 25h 28m 38s																
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:	APR 05														APR 06																

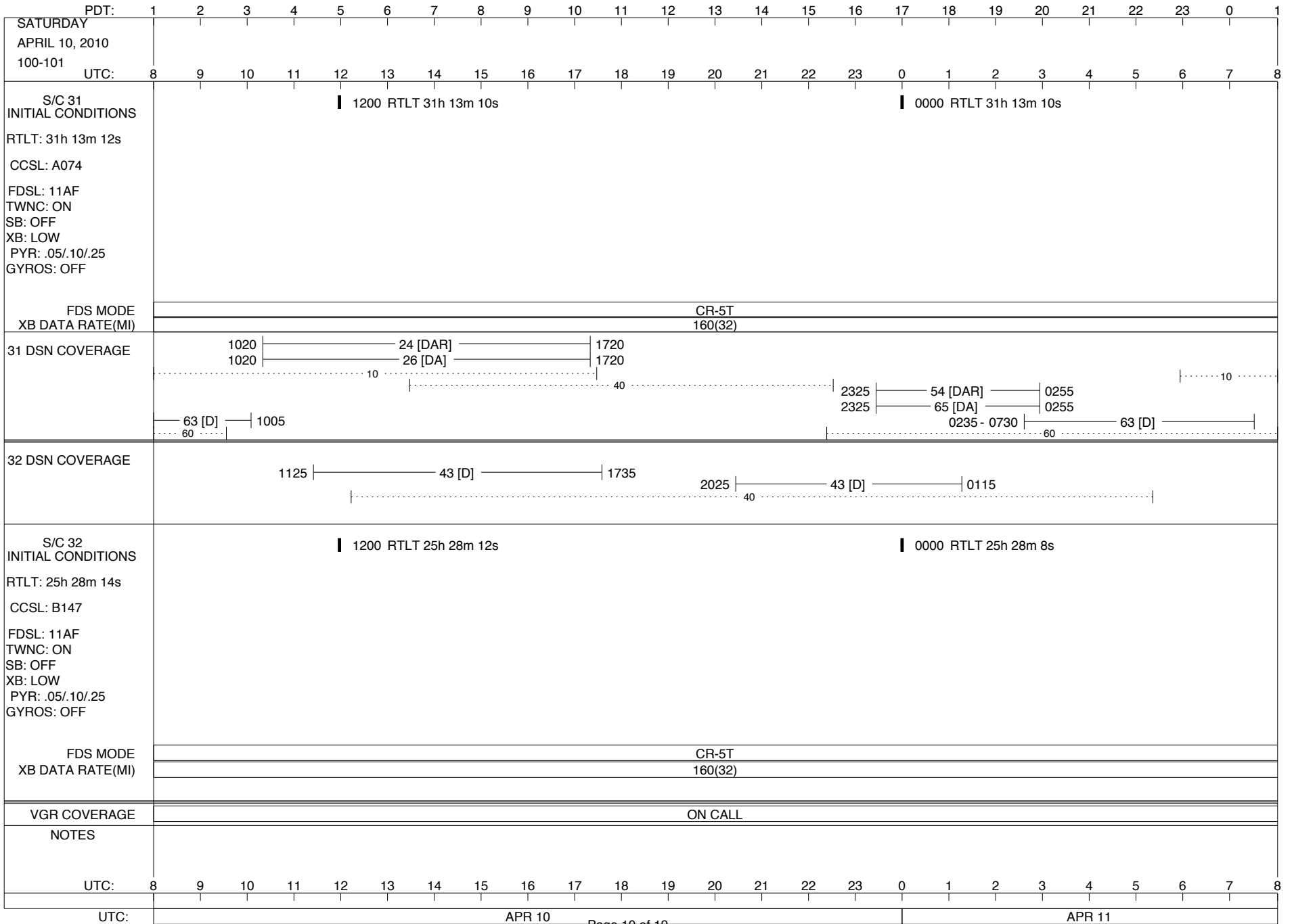
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UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8			
TUESDAY APRIL 6, 2010 096-097																												
S/C 31 INITIAL CONDITIONS RTLTL: 31h 13m 20s CCSL: A074 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 31h 13m 18s														0000 RTLT 31h 13m 18s													
FDS MODE	CR-5T														CR-5T													
XB DATA RATE(MI)	160(32)														160(32)													
31 DSN COVERAGE	<p>1110 | 15 [DA] | 1405</p> <p>1110 | 26 [DAR] | 1405</p> <p>63 [D] | 1035</p> <p>60 | 10</p> <p>40</p> <p>2220 | 63 [D]</p> <p>0530 | 55 [DAR]</p> <p>0530 | 65 [DA]</p> <p>10545</p> <p>10</p> <p>60</p>																											
32 DSN COVERAGE	<p>1410 | 45 [D] | 2250</p> <p>40</p>																											
S/C 32 INITIAL CONDITIONS RTLTL: 25h 28m 38s CCSL: B147 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 25h 28m 34s														0000 RTLT 25h 28m 32s													
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 @ 1730 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:	APR 06														APR 07													

ISSUE DATE: 03/31/10 15:39

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			
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WEDNESDAY APRIL 7, 2010 097-098																												
S/C 31 INITIAL CONDITIONS RTLT: 31h 13m 18s CCSL: A074 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 31h 13m 16s														0000 RTLT 31h 13m 16s													
FDS MODE															CR-5T													
XB DATA RATE(MI)															160(32)													
31 DSN COVERAGE	<p>0930 |----- 25 [DAR] -----| 1445 0930 |----- 26 [DA] -----| 1445 ----- 10 -----|----- 40 -----|----- 10 ----- |----- 0830 55 [DAR] -----|----- 40 -----|----- 60 ----- |----- 0830 65 [DA] -----|----- 60 -----|</p>																											
32 DSN COVERAGE	<p>1315 |----- 45 [D] -----| 1955 ----- 40 -----|</p>																											
S/C 32 INITIAL CONDITIONS RTLT: 25h 28m 32s CCSL: B147 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 25h 28m 28s														0000 RTLT 25h 28m 26s													
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:	APR 07														APR 08													

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 APRIL 8, 2010 098-099																										
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: 31h 13m 16s CCSL: A074 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 31h 13m 14s												█ 0000 RTLTL 31h 13m 14s													
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)													
31 DSN COVERAGE	<p>Timeline for 31 DSN COVERAGE:</p> <ul style="list-style-type: none"> 1200 - 1625: 25 [DA], 26 [DAR] 1620 - 2200: 43 [T] 2320 - 60: 63 [D] 																									
32 DSN COVERAGE	<p>Timeline for 32 DSN COVERAGE:</p> <ul style="list-style-type: none"> 1310 - 1910: 45 [D] 																									
S/C 32 INITIAL CONDITIONS RTLTL: 25h 28m 26s CCSL: B147 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 25h 28m 24s												█ 0000 RTLTL 25h 28m 20s													
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)													
VGR COVERAGE	ON CALL												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:	APR 08												Page 8 of 19						APR 09							

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	
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S/C 31 INITIAL CONDITIONS RTLTL: 31h 13m 14s CCSL: A074 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	█ 1200 RTLTL 31h 13m 12s												█ 0000 RTLTL 31h 13m 12s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)													
31 DSN COVERAGE	.....| 10 .....												.....| 40											
	63 [D] | 1020												0240 | 55 [DA] | 0455 0240 | 65 [DAR] | 0455 0530 | 63 [D] |													
32 DSN COVERAGE	.....| 1420 |.....| 43 [o] |.....| 0300 .....												.....| 40											
S/C 32 INITIAL CONDITIONS RTLTL: 25h 28m 20s CCSL: B147 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	█ 1200 RTLTL 25h 28m 18s												█ 0000 RTLTL 25h 28m 14s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)													
VGR COVERAGE	ON CALL												ON CALL													
NOTES	[1] S/C 31=GS-4B @ 2331 XB=2.8K(41) NOT RECOVERABLE																									
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UTC:	APR 09												APR 10													



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SUNDAY APRIL 11, 2010 101-102																										
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S/C 31 INITIAL CONDITIONS RTLT: 31h 13m 10s CCSL: A074 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 31h 13m 8s												█ 0000 RTLT 31h 13m 8s													
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
31 DSN COVERAGE	0955 |----- 15 [DAR] -----| 1625 0955 |----- 26 [DA] -----| 1625 10 .....| |----- 40 -----| ..... 60 .....|												..... 10 .....| |----- 63 [D] -----| ..... 60 .....|													
32 DSN COVERAGE	1120 |----- 43 [D] -----| 1730 |----- 40 -----|												2020 |----- 43 [D] -----| 0350 40 .....|													
S/C 32 INITIAL CONDITIONS RTLT: 25h 28m 8s CCSL: B147 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 25h 28m 6s												█ 0000 RTLT 25h 28m 2s													
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
VGR COVERAGE													ON CALL													
NOTES																										
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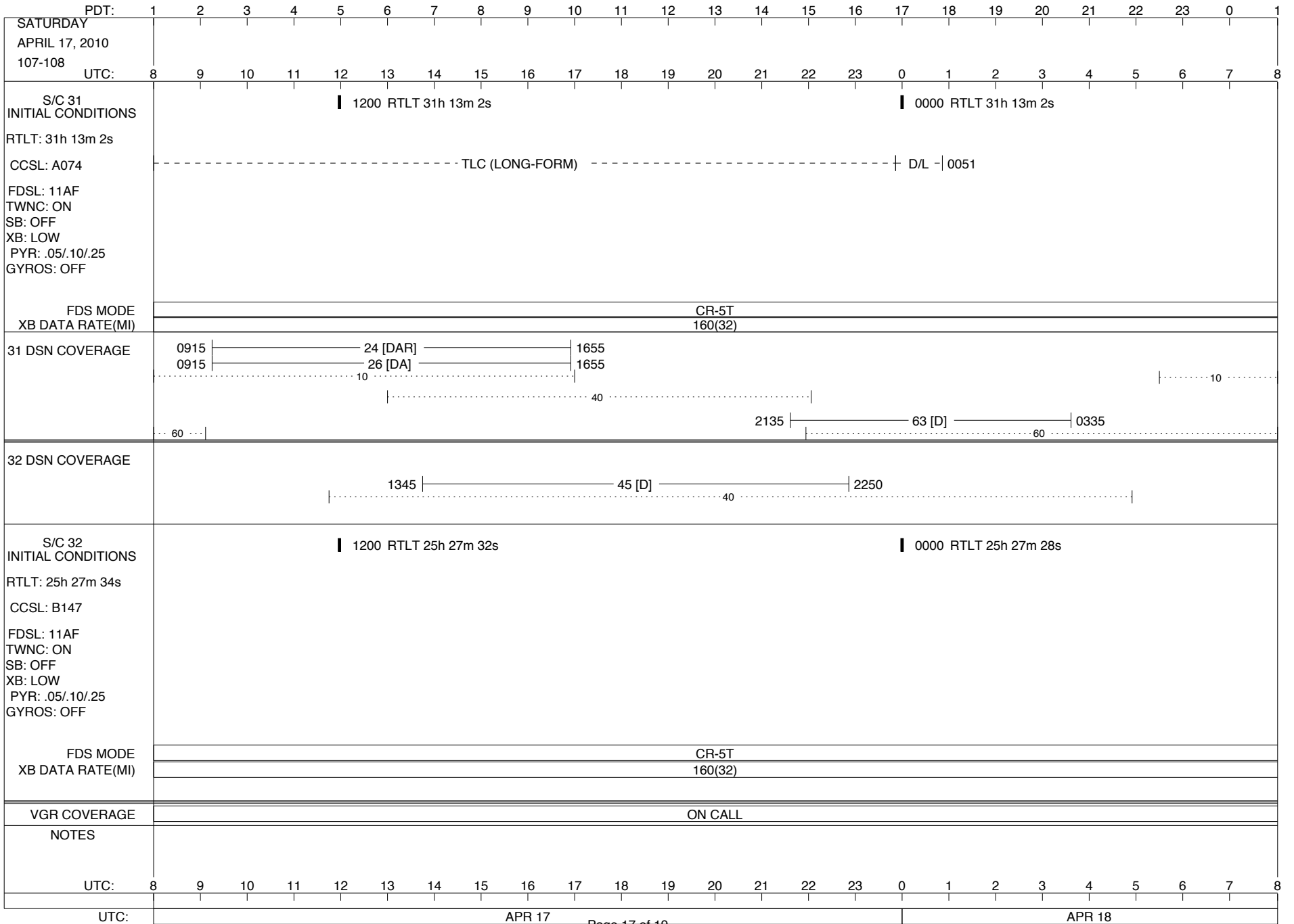
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S/C 31 INITIAL CONDITIONS RTLTL: 31h 13m 8s CCSL: A074 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 31h 13m 8s												█ 0000 RTLTL 31h 13m 6s															
FDS MODE													CR-5T															
XB DATA RATE(MI)													160(32)															
31 DSN COVERAGE	0925 ----- 15 [DA] ----- 1525 0925 ----- 26 [DAR] ----- 1525 10 40 63 [D] ----- 0945 60 10 40 0245 ----- 63 60															
32 DSN COVERAGE 1400 ----- 43 [D] ----- 2140 40																											
S/C 32 INITIAL CONDITIONS RTLTL: 25h 28m 2s CCSL: B147 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 25h 28m 0s												█ 0000 RTLTL 25h 27m 58s															
FDS MODE													CR-5T															
XB DATA RATE(MI)													160(32)															
VGR COVERAGE													ON CALL															
NOTES																												
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ISSUE DATE: 03/31/10 15:39

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WEDNESDAY																												
APRIL 14, 2010																												
104-105																												
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S/C 31 INITIAL CONDITIONS		1200 RTLT 31h 13m 4s												0000 RTLT 31h 13m 4s														
RTLT: 31h 13m 6s																												
CCSL: A074																												
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																												
32 DSN COVERAGE																												
S/C 32 INITIAL CONDITIONS		1200 RTLT 25h 27m 48s												0000 RTLT 25h 27m 46s														
RTLT: 25h 27m 52s																												
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																												
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S/C 31 INITIAL CONDITIONS RTLTL: 31h 13m 4s CCSL: A074 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 31h 13m 4s												█ 0000 RTLTL 31h 13m 4s															
FDS MODE													CR-5T															
XB DATA RATE(MI)													160(32)															
31 DSN COVERAGE	0945 |----- 15 [DA] -----| 1445 0945 |----- 25 [DAR] -----| 1445 10 ..... |----- 40 -----| ..... 10 60 ..... |----- 63 [D] -----| 1000 0050 |----- 63 [D] -----| 0545 60 ..... |----- 60 ..... |																											
32 DSN COVERAGE	..... 1245 |----- 45 [D] -----| 1950 40 ..... |----- 40 -----| ..... 10																										
S/C 32 INITIAL CONDITIONS RTLTL: 25h 27m 46s CCSL: B147 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 25h 27m 42s												█ 0000 RTLTL 25h 27m 40s															
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:	APR 15														APR 16													

ISSUE DATE: 03/31/10 15:39



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 APRIL 19, 2010 109-110																											
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S/C 31 INITIAL CONDITIONS RTLT: 31h 13m 2s 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 0s</p> </div>																										
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
31 DSN COVERAGE	<div style="display: flex; justify-content: space-between;"> <div style="width: 15%;"> <p>0910 |-----| 25 [DAR] |-----| 1345</p> <p>0910 |-----| 26 [DA] |-----| 1345</p> </div> <div style="width: 15%;"> <p>-----| 10 |-----|</p> <p>-----| 40 |-----|</p> </div> <div style="width: 15%;"> <p>-----| 63 [D] |-----| 0930</p> <p>-----| 60 |-----|</p> </div> </div>																										
32 DSN COVERAGE	<div style="display: flex; justify-content: space-between;"> <div style="width: 15%;"> <p>1345 |-----| 45 [D] |-----| 2240</p> </div> </div>																										
S/C 32 INITIAL CONDITIONS RTLT: 25h 27m 24s 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 27m 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:	APR 19													APR 20													