

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: May 2, 2012

For the Period: 05/03/12 to 05/21/12 (12-124 – 12-142)

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

**SCIENCE**

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

**DSOT (1) 230-102**

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- MAG \*u2mha@lepvox.gsfc.nasa.gov
- PLS \*vgr@space.mit.edu
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- Howard, S. (3)
- Ludwig, R. (2)
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- Medina, E.
- Peralta, F.
- Weeks, T.
- Wong, R.
- Yang, L
- Zottarelli, L.
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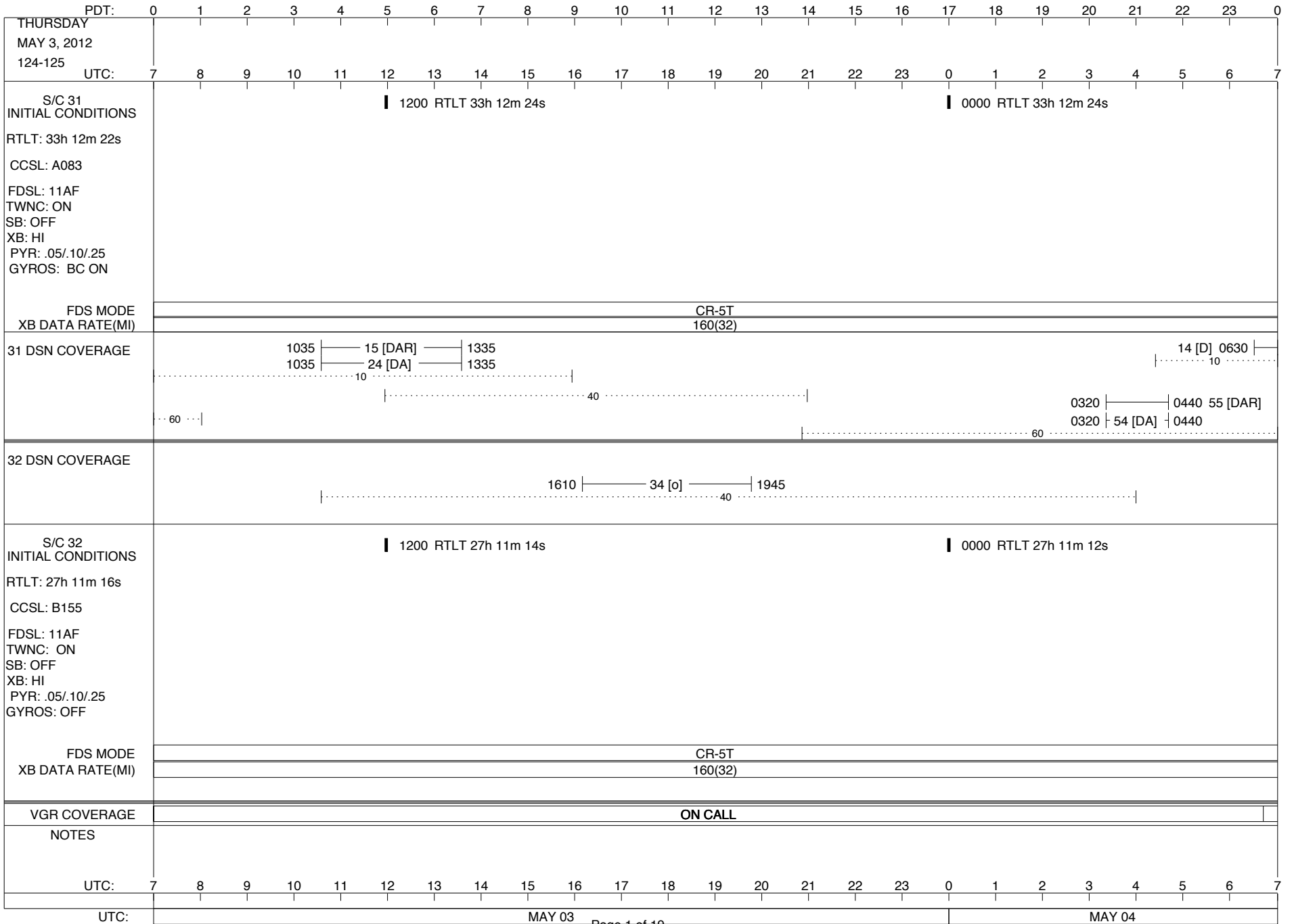
**OTHER**

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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

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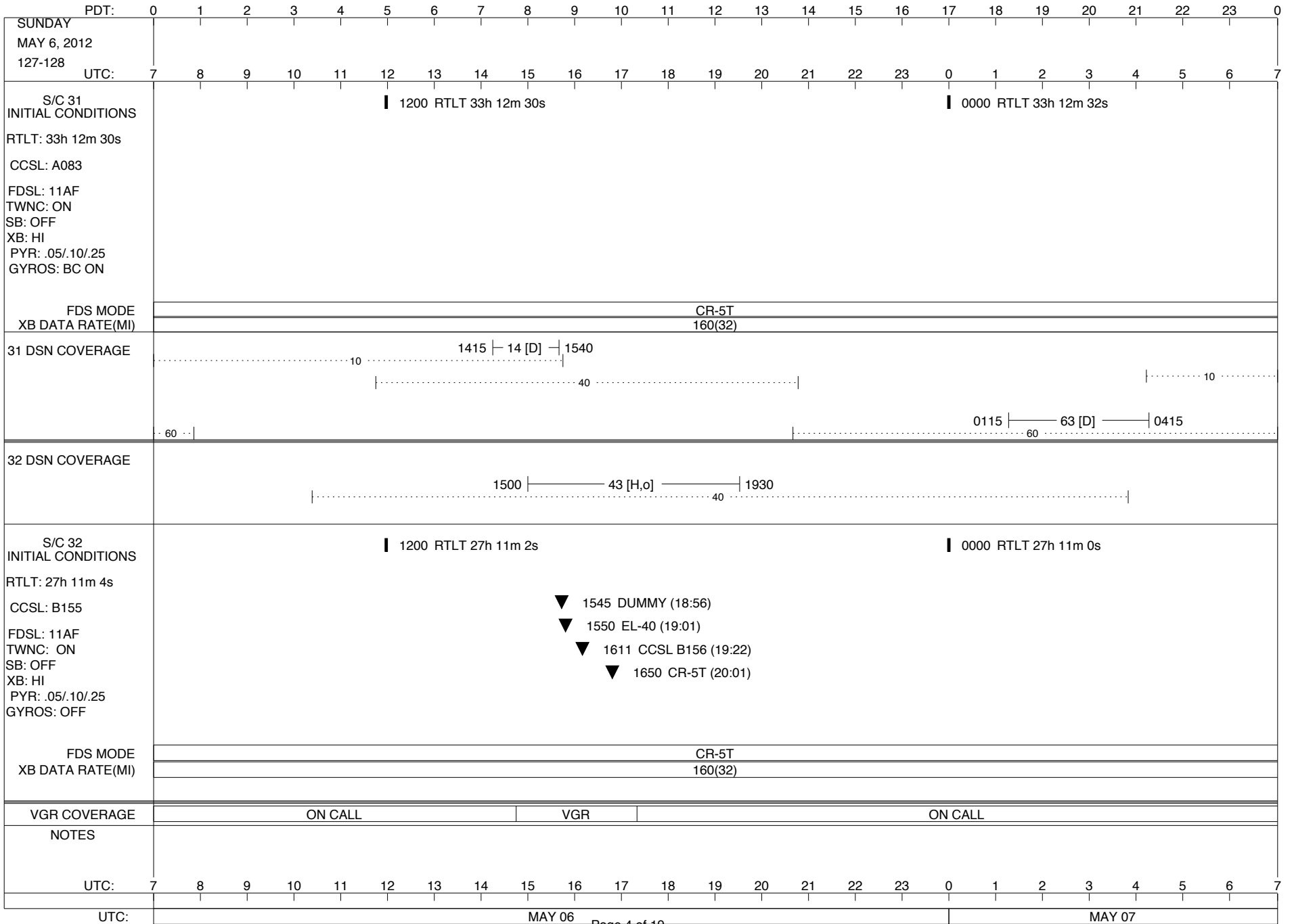
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FRIDAY MAY 4, 2012 125-126	UTC: 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLT: 33h 12m 24s CCSL: A083 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/10/25 GYROS: BC ON	1200 RTLT 33h 12m 26s												0000 RTLT 33h 12m 26s												
	0711 AAI												0714 - 1309												
	MAGROL												1302 RAI												
													1304 PSUEDO FLYBACK & SWEEP												
													1306 SET CALIB - GYROS STAY ON												
													1309 CRU												
													1904 - 1933 TAPPOS												
													2206   2207 PWS/RH												
													0014 - - -   0056 TAPPOS												
													2206 GS-4B 2207												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	14 [D]   1355												0005   63 [D]   0305												
	10												10												
	40												60												
32 DSN COVERAGE	1735   34 [D]   2210																								
	40																								
S/C 32 INITIAL CONDITIONS RTLT: 27h 11m 12s CCSL: B155 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/10/25 GYROS: OFF	1200 RTLT 27h 11m 10s												0000 RTLT 27h 11m 8s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	VGR												ON CALL												
NOTES	[1] S/C 31 D/L AGC & SNR VARIATIONS EXPECTED DURING MAGROL (0714-1309)																								
	[2] S/C 31=GS-4B @ 2206 XB=2.8K(41) NOT RECOVERABLE																								
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UTC:	MAY 04												MAY 05												

ISSUE DATE: 05/02/12 20:57

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SATURDAY MAY 5, 2012 126-127																												
S/C 31 INITIAL CONDITIONS RTLT: 33h 12m 26s CCSL: A083 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON	1200 RTLT 33h 12m 28s												0000 RTLT 33h 12m 30s															
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)															
31 DSN COVERAGE	<p>0950  ----- 15 [DA] -----  1315  0950  ----- 25 [DAR] -----  1315  ----- 10 -----  ----- 40 -----  ----- 60 -----  2210  ----- 63 [D] -----  0210  ----- 60 -----</p>																											
32 DSN COVERAGE	<p>1545  ----- 43 [D] -----  2005  ----- 40 -----</p>																											
S/C 32 INITIAL CONDITIONS RTLT: 27h 11m 8s CCSL: B155 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 27h 11m 6s												0000 RTLT 27h 11m 4s															
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)															
VGR COVERAGE	ON CALL												VGR						ON CALL									
NOTES																												
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7			
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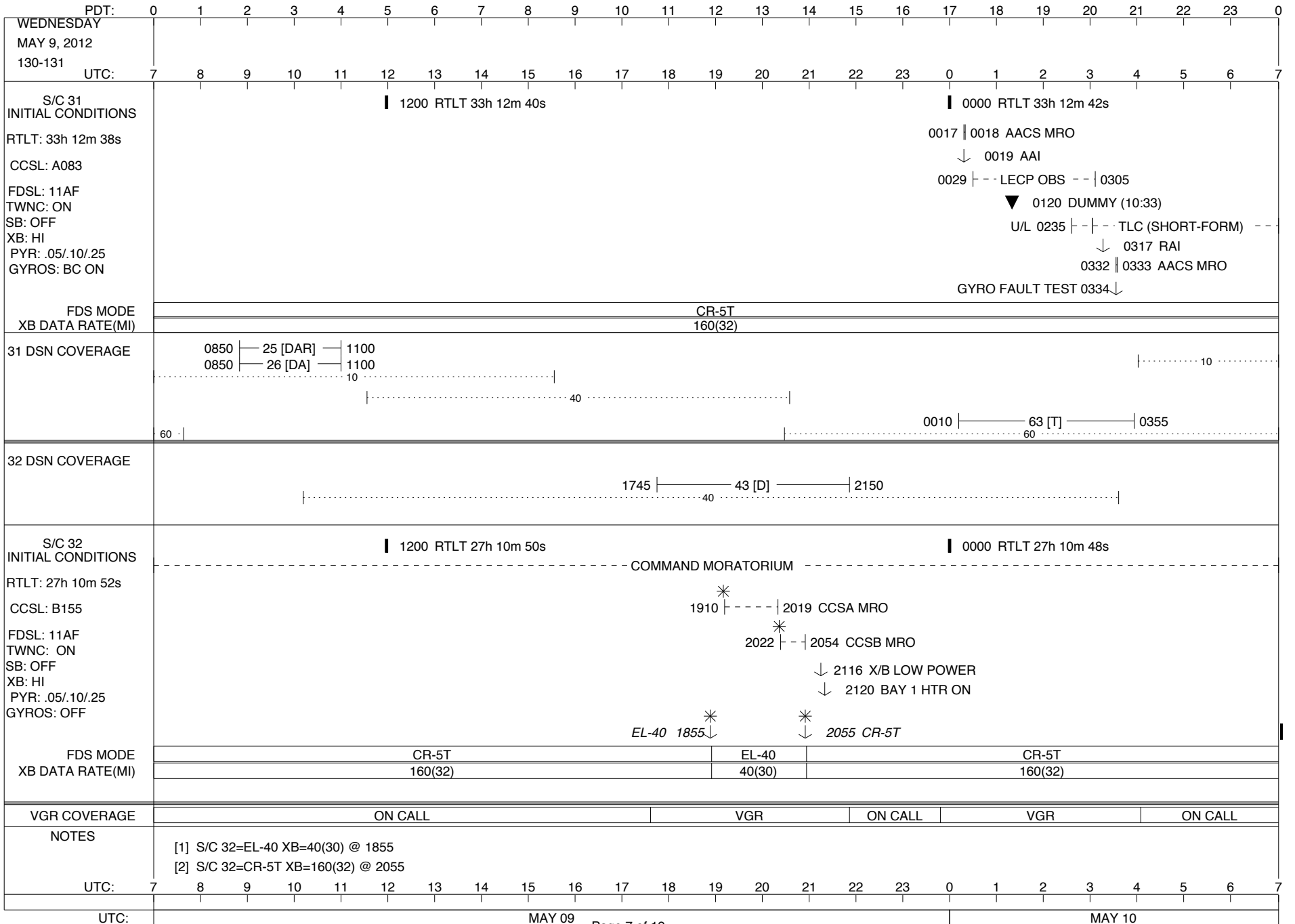


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MONDAY MAY 7, 2012 128-129																												
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S/C 31 INITIAL CONDITIONS RTLTL: 33h 12m 32s CCSL: A083 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/10/25 GYROS: BC ON	1200 RTLT 33h 12m 34s												0000 RTLT 33h 12m 36s															
FDS MODE	CR-5T												CR-5T															
XB DATA RATE(MI)	160(32)												160(32)															
31 DSN COVERAGE	1000  ----- 15 [DA] -----  1445 1000  ----- 26 [DAR] -----  1445 ..... 10 ..... ..... 40 ..... ..... 60 .....												0415  ----- 14 [D] -----  ..... 10 ..... ..... 60 .....															
32 DSN COVERAGE	..... 1235  ----- 45 [D1] -----  1545 1735  ----- 34 [D] -----  0140 ..... ..... 40 .....																											
S/C 32 INITIAL CONDITIONS RTLTL: 27h 11m 0s CCSL: B155 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/10/25 GYROS: OFF	1200 RTLT 27h 10m 58s												0000 RTLT 27h 10m 56s															
FDS MODE	CR-5T												CR-5T															
XB DATA RATE(MI)	160(32)												160(32)															
VGR COVERAGE	ON CALL				VGR				ON CALL				VGR				ON CALL				VGR							
NOTES	[1] ENGINEERING DEMO [2] S/C 32=EL-40 XB=40(30) @ 1902 [3] S/C 32=CR-5T XB=160(32) @ 2002																											
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7			
UTC:	MAY 07														MAY 08													

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PDT:	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 MAY 8, 2012 129-130																												
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7			
S/C 31 INITIAL CONDITIONS RTLT: 33h 12m 36s CCSL: A083 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/10/25 GYROS: BC ON	1200 RTLT 33h 12m 38s												0000 RTLT 33h 12m 38s															
FDS MODE	CR-5T												CR-5T															
XB DATA RATE(MI)	160(32)												160(32)															
31 DSN COVERAGE	14 [D]   0845 .....10.....  .....40..... .....10.....												2240   63 [D]   0335 .....60.....															
32 DSN COVERAGE	1525   43 [H,2]   2135  .....40.....																											
S/C 32 INITIAL CONDITIONS RTLT: 27h 10m 56s CCSL: B155 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/10/25 GYROS: OFF	1200 RTLT 27h 10m 54s												0000 RTLT 27h 10m 52s															
FDS MODE	CR-5T												CR-5T															
XB DATA RATE(MI)	160(32)												160(32)															
VGR COVERAGE	VGR	ON CALL				VGR	ON CALL				VGR	ON CALL				VGR	ON CALL											
NOTES	[1] S/C 31=GS-4B @ 1542 XB=2.8K(41) NOT RECOVERABLE [2] B156 BACKUP UPLINK TRACK																											
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7			
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ISSUE DATE: 05/02/12 20:57





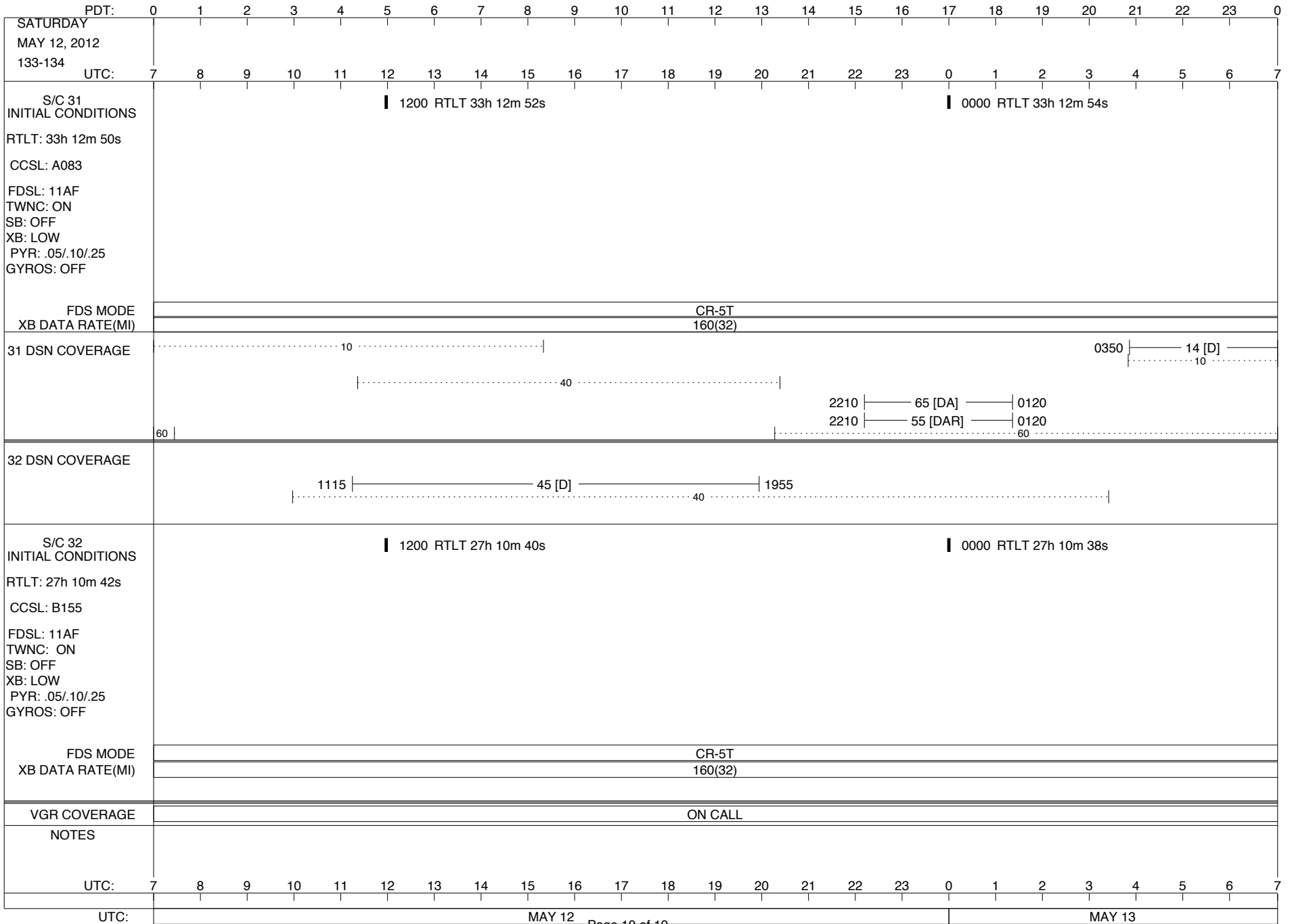
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THURSDAY MAY 10, 2012 131-132																												
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7			
S/C 31 INITIAL CONDITIONS RTLTL: 33h 12m 42s CCSL: A083 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON	0910   0911 AACS MRO   1200 RTLTL 33h 12m 44s												0000 RTLTL 33h 12m 46s															
	↓ 0912 AAI 0922  ----- LECP OBS -----  1325												↓ 1327 RAI ↓ 1331 GYROS OFF 1342   1343 AACS MRO															
	----- TLC (SHORT-FORM) -----												↓ 1407 X/B LOW POWER ↓ 1411 BAY 1 HTR ON															
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)															
31 DSN COVERAGE	0820  ----- 14 [D] -----  1435  ----- 10 -----												----- 10 -----															
	----- 40 -----												----- 60 -----															
32 DSN COVERAGE	----- 1445 ----- 45 [D] -----  1910  ----- 40 -----												----- 1809 -----															
S/C 32 INITIAL CONDITIONS RTLTL: 27h 10m 48s CCSL: B155 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 27h 10m 46s												0000 RTLTL 27h 10m 44s															
	----- COMMAND MORATORIUM -----												1809															
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)															
VGR COVERAGE	ON CALL		VGR										ON CALL															
NOTES																												
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7			
UTC:	MAY 10														MAY 11													

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PDT:	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 MAY 11, 2012 132-133																									
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLT: 33h 12m 46s CCSL: A083 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 33h 12m 48s												0000 RTLT 33h 12m 50s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	0920  -----  14 [D]  -----  1320												-----  10												
	-----  40												-----  60												
	60  -----  0200 - 0625  -----  63 [D]  -----												-----												
32 DSN COVERAGE	-----  1310  -----  45 [D]  -----  1710												-----  40												
S/C 32 INITIAL CONDITIONS RTLT: 27h 10m 44s CCSL: B155 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 27h 10m 44s												0000 RTLT 27h 10m 42s												
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 @ 2142 XB=2.8K(41) NOT RECOVERABLE																								
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
UTC:	MAY 11												MAY 12												

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SUNDAY MAY 13, 2012 134-135	UTC: 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLT: 33h 12m 54s CCSL: A083 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 12m 56s												0000 RTLT 33h 12m 58s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	14 [D] 1040 .....   .....40.....												0345 14 [D] 0545 .....   .....10.....												
	60												2210 63 [D] 0345 .....   .....60.....												
32 DSN COVERAGE	1145 34 [D] 1420 1400 45 [D] 1735  .....40.....																								
S/C 32 INITIAL CONDITIONS RTLT: 27h 10m 38s CCSL: B155 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 27h 10m 36s												0000 RTLT 27h 10m 34s												
FDS MODE	CR-5T																								
XB DATA RATE(MI)	160(32)																								
VGR COVERAGE	ON CALL												VGR						ON CALL						
NOTES	[1] S/C 31=EL-40 XB=40(32) @ 0146 [2] S/C 31=CR-5T XB=160(32) @ 0210																								
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
UTC:	MAY 13																		MAY 14						

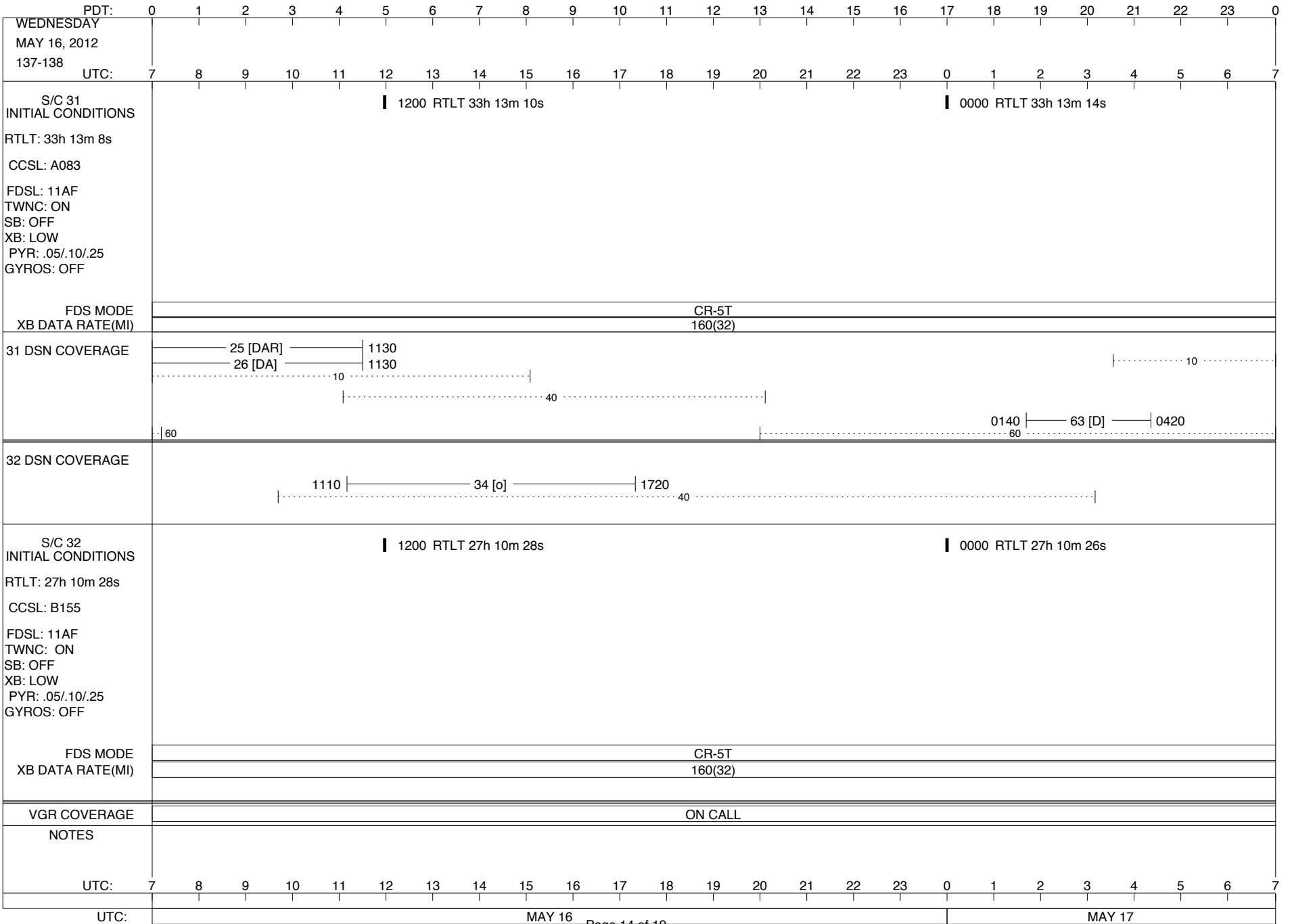
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UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
S/C 31 INITIAL CONDITIONS RTLTL: 33h 12m 58s CCSL: A083 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLTL 33h 13m 0s												0000 RTLTL 33h 13m 4s													
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
31 DSN COVERAGE	.....  10 .....												..... 40 .....													
	..... 60 .....												..... 60 .....													
32 DSN COVERAGE	..... 1105   ..... 34 [D] .....   ..... 1715												..... 40 .....													
S/C 32 INITIAL CONDITIONS RTLTL: 27h 10m 34s CCSL: B155 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLTL 27h 10m 34s												0000 RTLTL 27h 10m 32s													
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
VGR COVERAGE													ON CALL													
NOTES																										
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
UTC:	MAY 14														MAY 15											

ISSUE DATE: 05/02/12 20:57

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TUESDAY MAY 15, 2012 136-137	UTC: 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLTL: 33h 13m 4s CCSL: A083 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 13m 6s												0000 RTLT 33h 13m 8s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	0755   25 [DAR]   1330											25 [DAR] 0630						26 [DA] 0630							
	0755   26 [DA]   1330																10								
	----- ----- ----- ----- ----- ----- ----- ----- ----- -----										----- ----- ----- ----- ----- ----- ----- ----- ----- -----														
	60	----- ----- ----- ----- ----- ----- ----- ----- ----- -----										----- ----- ----- ----- ----- ----- ----- ----- ----- -----													
	----- ----- ----- ----- ----- ----- ----- ----- ----- -----										----- ----- ----- ----- ----- ----- ----- ----- ----- -----														
32 DSN COVERAGE	1150   34 [D]   1625																								
	----- ----- ----- ----- ----- ----- ----- ----- ----- -----												----- ----- ----- ----- ----- ----- ----- ----- ----- -----												
S/C 32 INITIAL CONDITIONS RTLTL: 27h 10m 32s CCSL: B155 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 27h 10m 30s												0000 RTLT 27h 10m 28s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE	ON CALL																								
NOTES	[1] S/C 31=GS-4B @ 1518 XB=2.8K(41) NOT RECOVERABLE																								
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
UTC:	MAY 15												MAY 16												

ISSUE DATE: 05/02/12 20:57



ISSUE DATE: 05/02/12 20:57

PDT: 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  
MAY 17, 2012  
138-139

UTC: 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7

S/C 31  
INITIAL CONDITIONS  
RTLT: 33h 13m 14s  
CCSL: A083  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/10/25  
GYROS: OFF

1200 RTLT 33h 13m 16s

0000 RTLT 33h 13m 18s

U/L 0150 | - | - - - TLC (SHORT-FORM) - - - -

FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

31 DSN COVERAGE

0745 |----- 14 [D] -----| 1230

15 [DAR] 0630 |-----|

25 [DA] 0630 |-----|

10

40

10

0125 |----- 63 [T] -----| 0335

60

60

32 DSN COVERAGE

1055 |----- 34 [D] -----| 1820

40

S/C 32  
INITIAL CONDITIONS  
RTLT: 27h 10m 26s  
CCSL: B155  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/10/25  
GYROS: OFF

1200 RTLT 27h 10m 24s

0000 RTLT 27h 10m 24s

FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

VGR COVERAGE

ON CALL

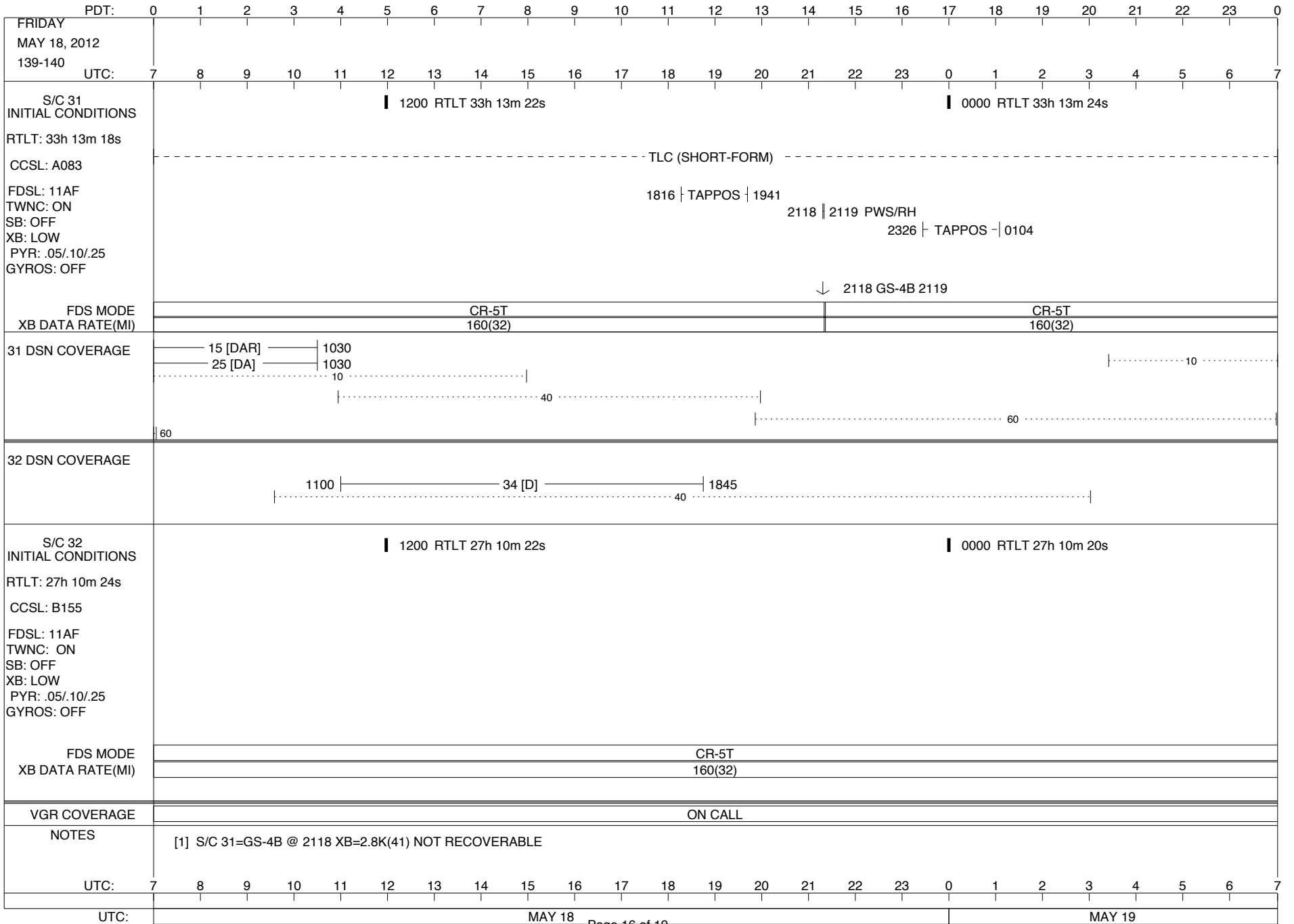
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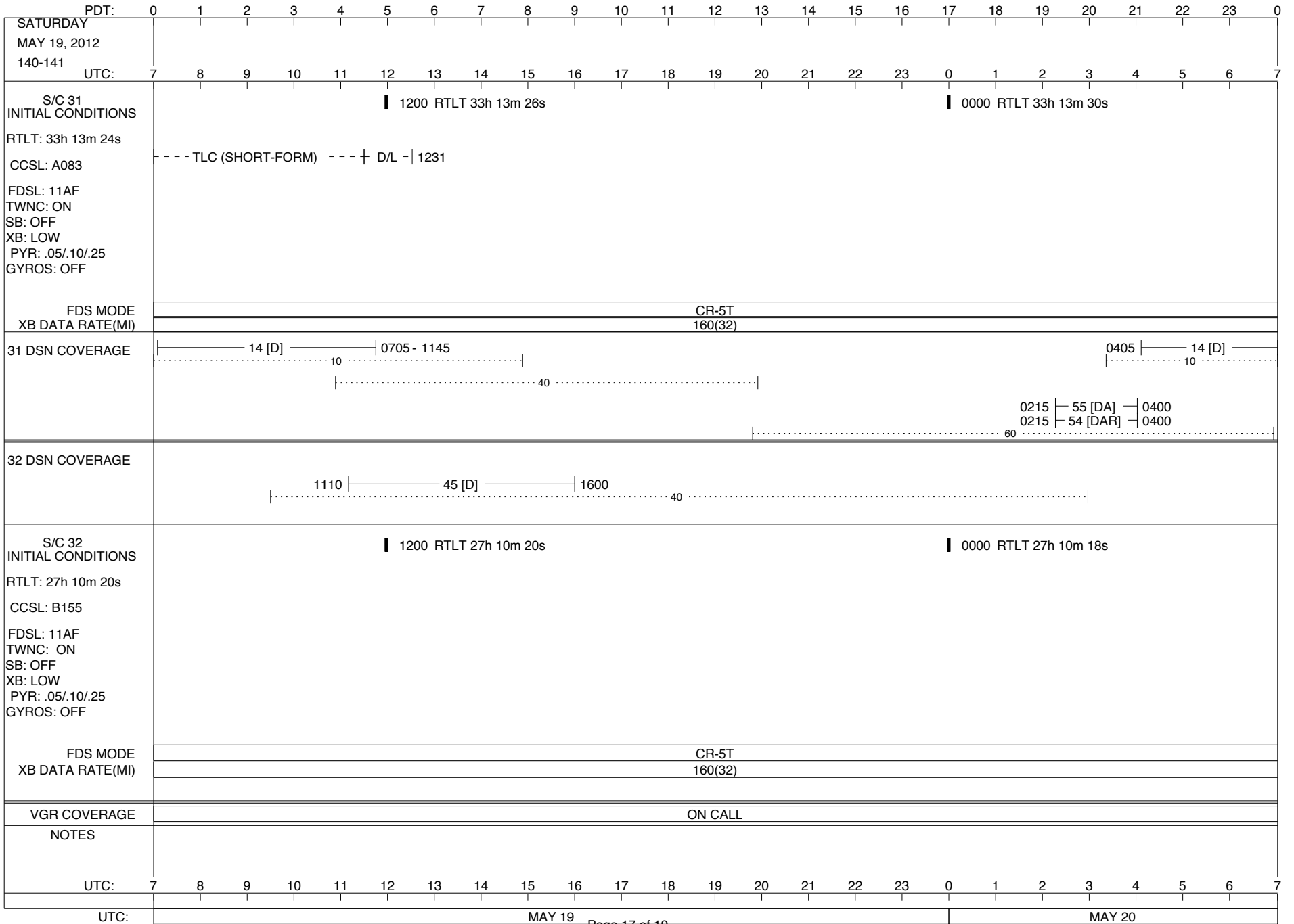
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ISSUE DATE: 05/02/12 20:57



ISSUE DATE: 05/02/12 20:57



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S/C 31 INITIAL CONDITIONS RTLT: 33h 13m 30s CCSL: A083 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 33h 13m 32s												0000 RTLT 33h 13m 36s													
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)													
31 DSN COVERAGE	0715 14 [D]   .....    ..... 40 .....    ..... 10 .....												0130   ..... 63 [D] .....  0545 .....60.....													
32 DSN COVERAGE	1145   ..... 34 [D] .....  1605 .....40.....																									
S/C 32 INITIAL CONDITIONS RTLT: 27h 10m 18s CCSL: B155 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 27h 10m 18s												0000 RTLT 27h 10m 16s													
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)													
VGR COVERAGE													ON CALL													
NOTES																										
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
UTC:	MAY 20													MAY 21												

PDT:	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 MAY 21, 2012 142-143																											
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7		
S/C 31 INITIAL CONDITIONS RTLT: 33h 13m 36s CCSL: A083 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	<p>1200 RTLT 33h 13m 38s</p>																										
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)													
31 DSN COVERAGE	<p>Timeline for 31 DSN COVERAGE:            - 15 [DAR] from 0720 to 1105            - 24 [DA] from 0720 to 1105            - 1105 to 1305 with 25 [DA] and 10 [DAR] segments            - 40 [DAR] from 1105 to 1305 (dotted line)</p>																										
32 DSN COVERAGE	<p>1310  -----  34 [o]  -----  2200</p>																										
S/C 32 INITIAL CONDITIONS RTLT: 27h 10m 16s CCSL: B155 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	<p>1200 RTLT 27h 10m 14s</p>																										
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)													
VGR COVERAGE	ON CALL																										
NOTES																											
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7		
UTC:	MAY 21													MAY 22													