

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: April 27, 2016

For the Period: 04/28/16 to 05/15/16 (16-119 – 16-136)

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

**DSOT (1) 230-102**

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

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 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

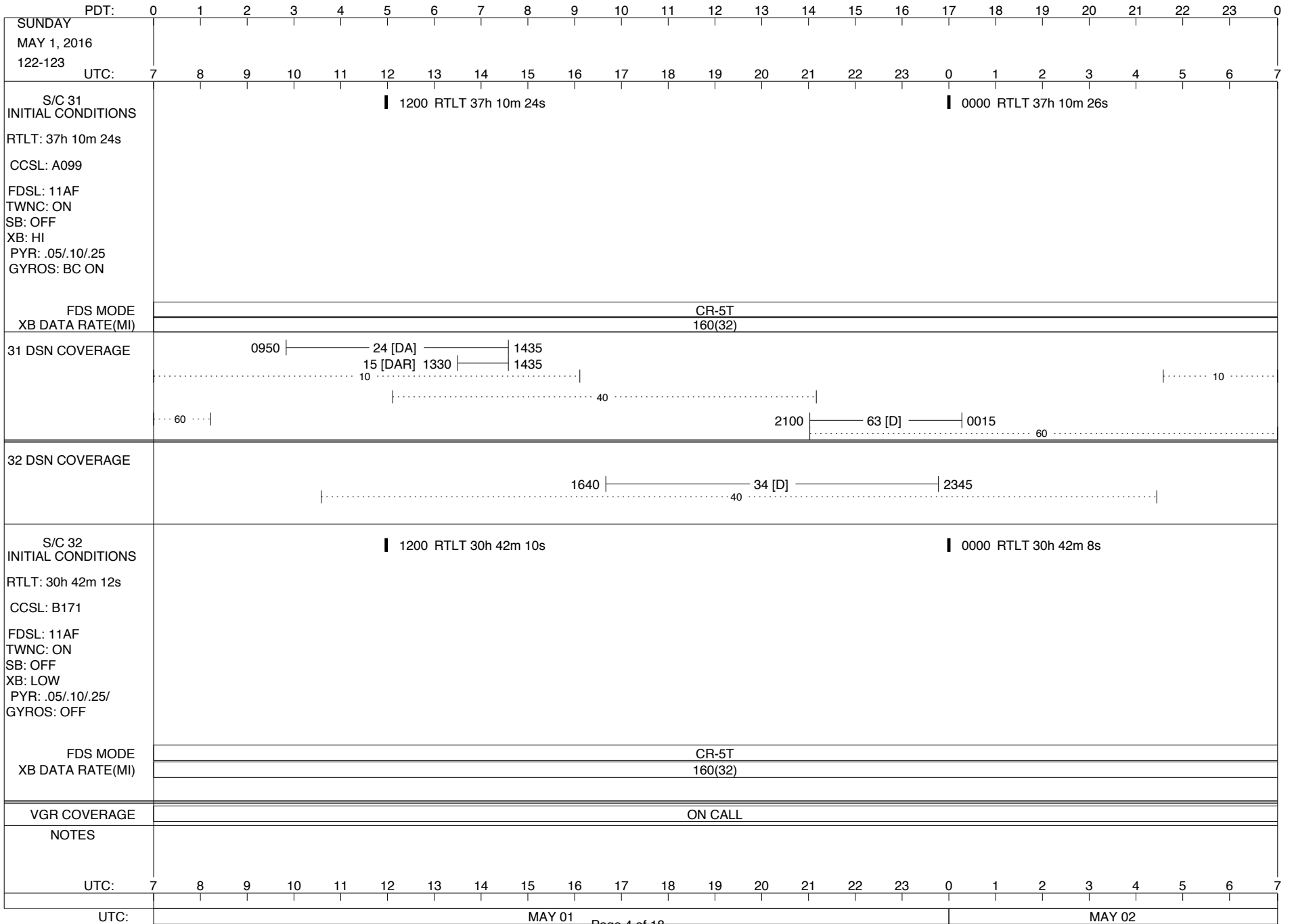
ISSUE DATE: 04/27/16 13:15

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S/C 31 INITIAL CONDITIONS RTLTL: 37h 10m 20s CCSL: A099 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 37h 10m 20s												0000 RTLT 37h 10m 22s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	..... 10 .....												..... 10 .....												
	0715 63 [DA] ..... 40 .....												0515 65 [DAR] ..... 10 .....												
	0715 55 [DAR] ..... 40 .....												0515 55 [DA] ..... 60 .....												
	0715 54 [DA] ..... 60 .....												0515 55 [DA] ..... 60 .....												
32 DSN COVERAGE	..... 1530   ..... 43 [B] ..... 2315 .....												..... 40 .....												
S/C 32 INITIAL CONDITIONS RTLTL: 30h 42m 26s CCSL: B171 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 30h 42m 24s												0000 RTLT 30h 42m 22s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
VGR COVERAGE	ON CALL												VGR ON CALL												
NOTES	[1] S/C 31=GS-4B @ 2218 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:	APR 28												APR 29												

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FRIDAY APRIL 29, 2016 120-121																												
S/C 31 INITIAL CONDITIONS RTLT: 37h 10m 22s CCSL: A099 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON	1200 RTLT 37h 10m 22s												0000 RTLT 37h 10m 22s															
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)															
31 DSN COVERAGE																												
32 DSN COVERAGE																												
S/C 32 INITIAL CONDITIONS RTLT: 30h 42m 22s CCSL: B171 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 30h 42m 18s												0000 RTLT 30h 42m 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:	APR 29														APR 30													

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
SATURDAY APRIL 30, 2016 121-122	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: 37h 10m 22s CCSL: A099 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON	1200 RTLT 37h 10m 24s												0000 RTLT 37h 10m 24s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	0850  ----- 26 [D] -----  1340 .....   ----- 40 -----  .....												----- 10 -----   ----- 60 -----												
32 DSN COVERAGE	1225  ----- 43 [D] -----  1520  ----- 1520 -----   ----- 34 [o] -----  2350  ----- 40 -----																								
S/C 32 INITIAL CONDITIONS RTLT: 30h 42m 16s CCSL: B171 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 30h 42m 14s												0000 RTLT 30h 42m 12s												
FDS MODE	CR-5T																								
XB DATA RATE(MI)	160(32)																								
VGR COVERAGE													ON CALL												
NOTES	[1] S/C 31=GS-4B @ 0119 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:	APR 30												MAY 01												

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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

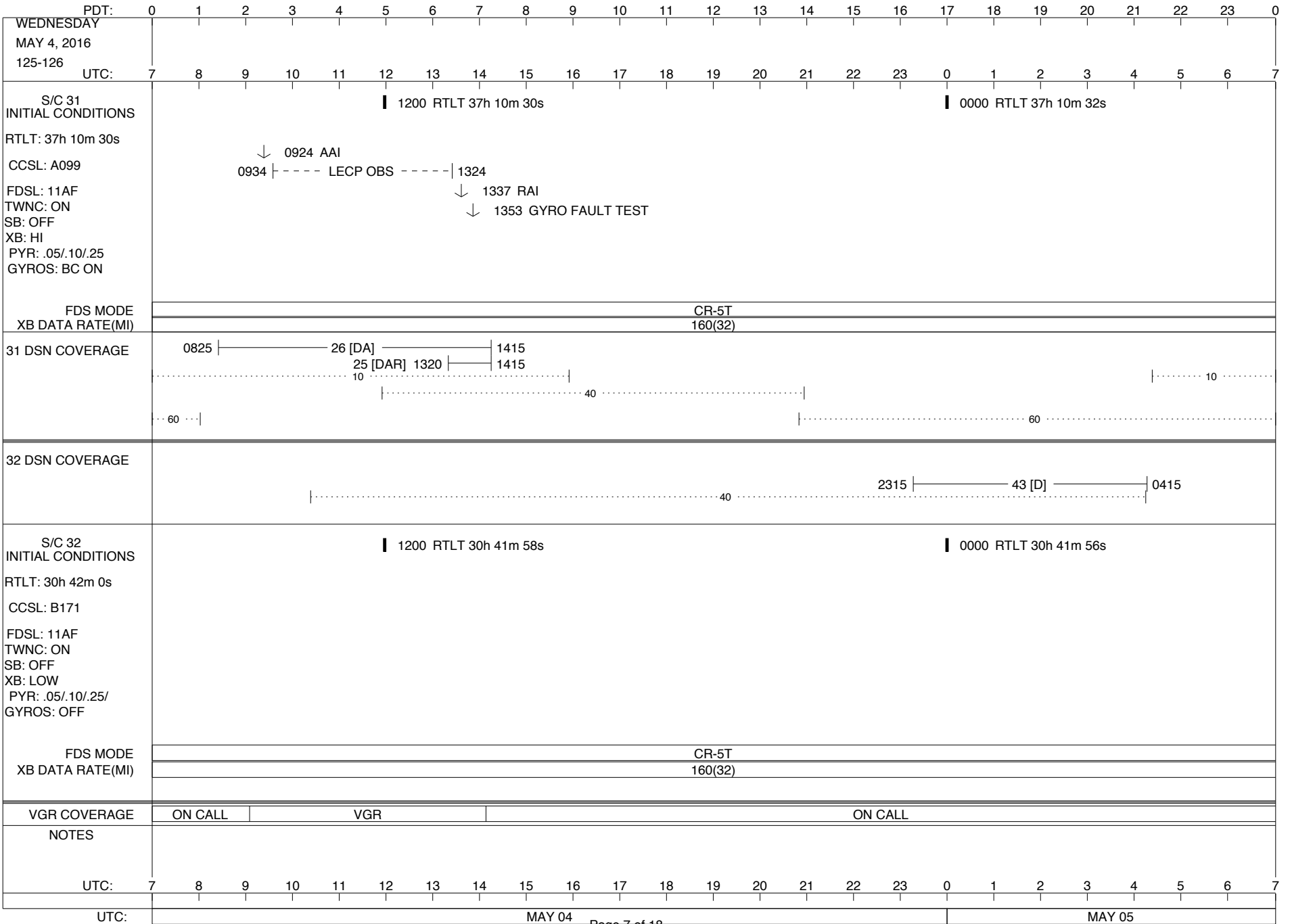
UTC: MAY 01 | MAY 02



ISSUE DATE: 04/27/16 13:15

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TUESDAY MAY 3, 2016 124-125	
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: 37h 10m 28s CCSL: A099 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.05/.05/ GYROS: BC ON	1200 RTLT 37h 10m 28s 0707 AAI 0708 - 0741 ASCAL 0743 RAI 0754 ROLL=.25 0754 YAW=.10 0755 GYRO FAULT TEST 0748 1541 GS-4B 1542 0000 RTLT 37h 10m 30s
FDS MODE	CR-5T
XB DATA RATE(MI)	160(32)
31 DSN COVERAGE	25 [DAR] 1325 26 [DA] 1045 10 40 60 10
32 DSN COVERAGE	1715 35 [D] 2335 40
S/C 32 INITIAL CONDITIONS RTLT: 30h 42m 4s CCSL: B171 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 30h 42m 2s 0000 RTLT 30h 42m 0s 1720 PLSCAL - 1903 1720 --- MAGCAL --- 2023 1720 --- PESCAL --- 2040
FDS MODE	CR-5T
XB DATA RATE(MI)	160(32)
VGR COVERAGE	VGR ON CALL
NOTES	[1] S/C 31=CR-5T @ 0748 XB=160(32) [2] S/C 31=GS-4B @ 1541 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 03 Page 6 of 18 MAY 04	

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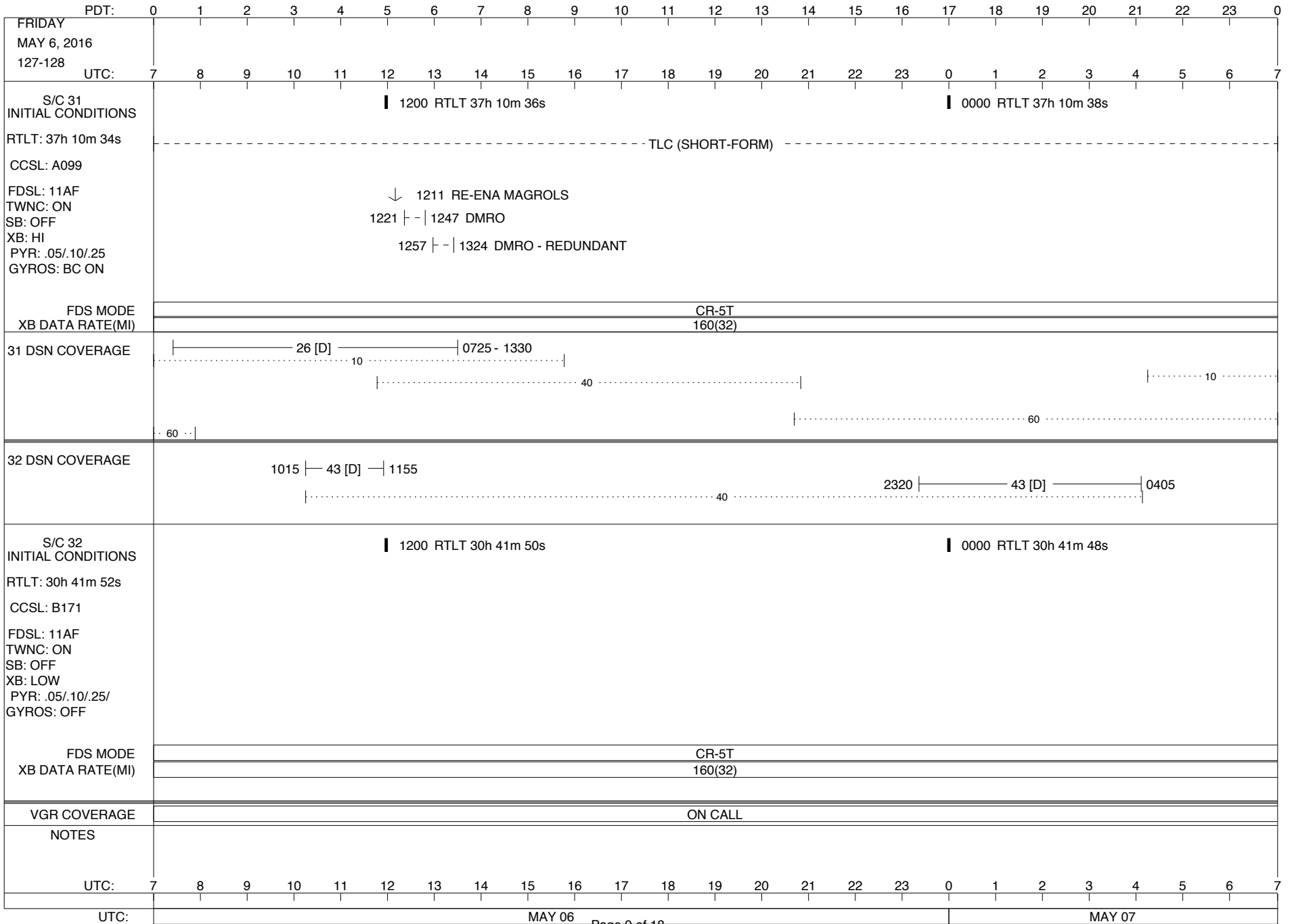




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THURSDAY MAY 5, 2016 126-127																													
UTC:		7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7			
S/C 31 INITIAL CONDITIONS RTLT: 37h 10m 32s CCSL: A099 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON		1200 RTLT 37h 10m 34s 0949 AAI 0959  ----- LECP OBS -----  1323  -----  1336 RAI  -----  1352 GYRO FAULT TEST														0000 RTLT 37h 10m 34s 2150 DUMMY (11:01) U/L 2230  ----- TLC (SHORT-FORM) ----- 2253  ----- 2250 AAI -----  0449  ----- RAI 0442 -----  1852  -----  1918 TAPPOS PWS/RH 2154   2155 TAPPOS 2206   2218 2154 GS-4B 2155 ↓ GYRO STAY ON 0449 ↓ CRU 0449 ↓ GYRO FAULT TEST 0459 ↓ NO-OP MAGROLS 0504 ↓ DMRO 0506  -----  0533 DMRO - REDUNDANT 0542  -----  0608													
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)														CR-5T 160(32)													
31 DSN COVERAGE		0850  ----- 26 [DA] -----  1420  ----- 10 -----  1315  ----- 1420 24 [DAR] -----  2100 - 0645  ----- 63 [TA] -----  2230  ----- 54 [DA] -----  0500 2230  ----- 55 [DAR] -----  0500 60  ----- 40 -----  60																											
32 DSN COVERAGE		1520  ----- 34 [D] -----  2330  ----- 40 -----																											
S/C 32 INITIAL CONDITIONS RTLT: 30h 41m 56s CCSL: B171 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF		1200 RTLT 30h 41m 54s														0000 RTLT 30h 41m 52s													
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)																											
VGR COVERAGE		ON CALL							VGR							ON CALL							VGR						
NOTES		[1] S/C 31=GS-4B @ 2154 XB=2.8K(41) NOT RECOVERABLE [2] S/C 31=D/L AGC & SNR VARIATIONS EXPECTED DURING MAGROL (2253-0449)																											
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 05														MAY 06													

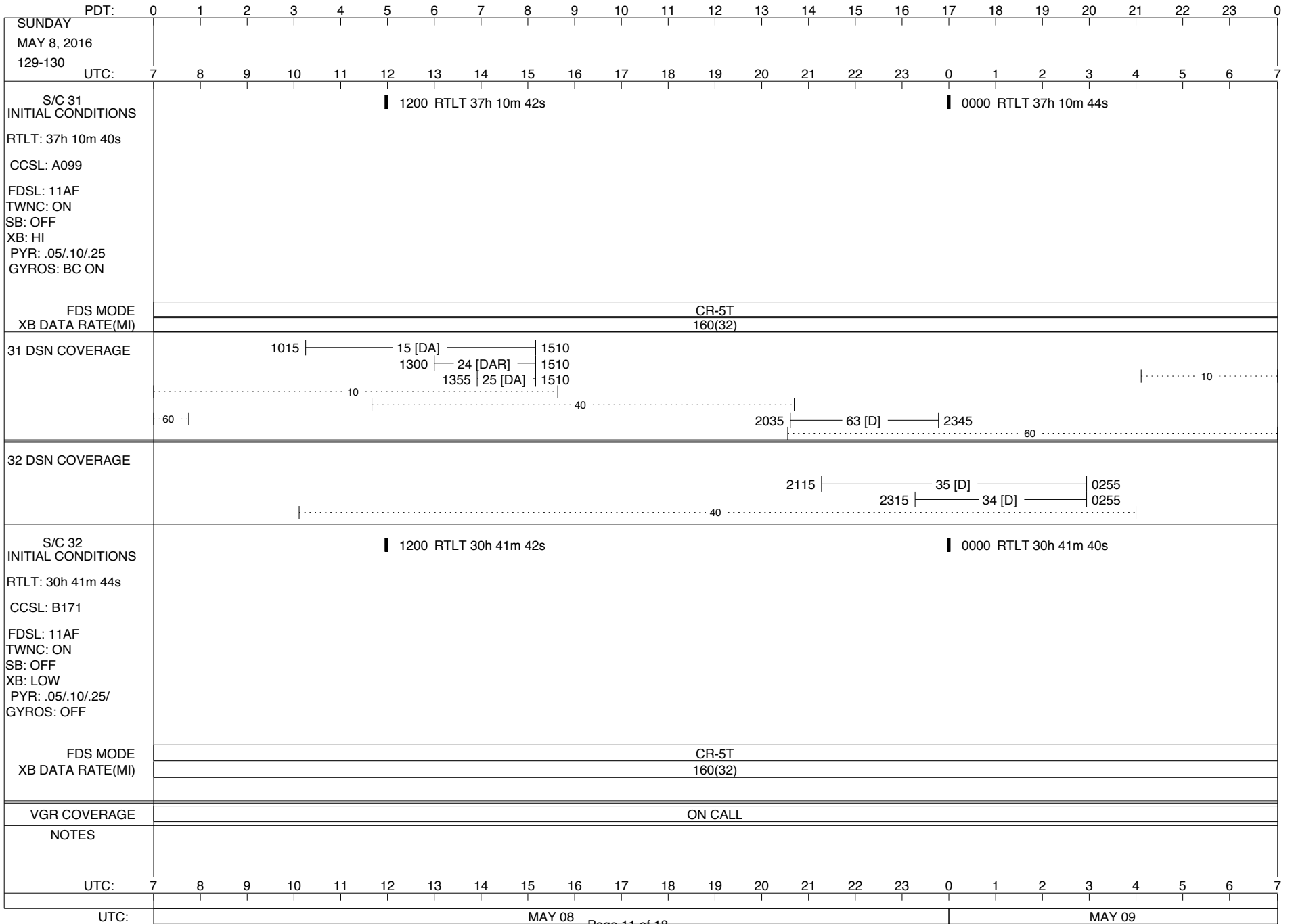
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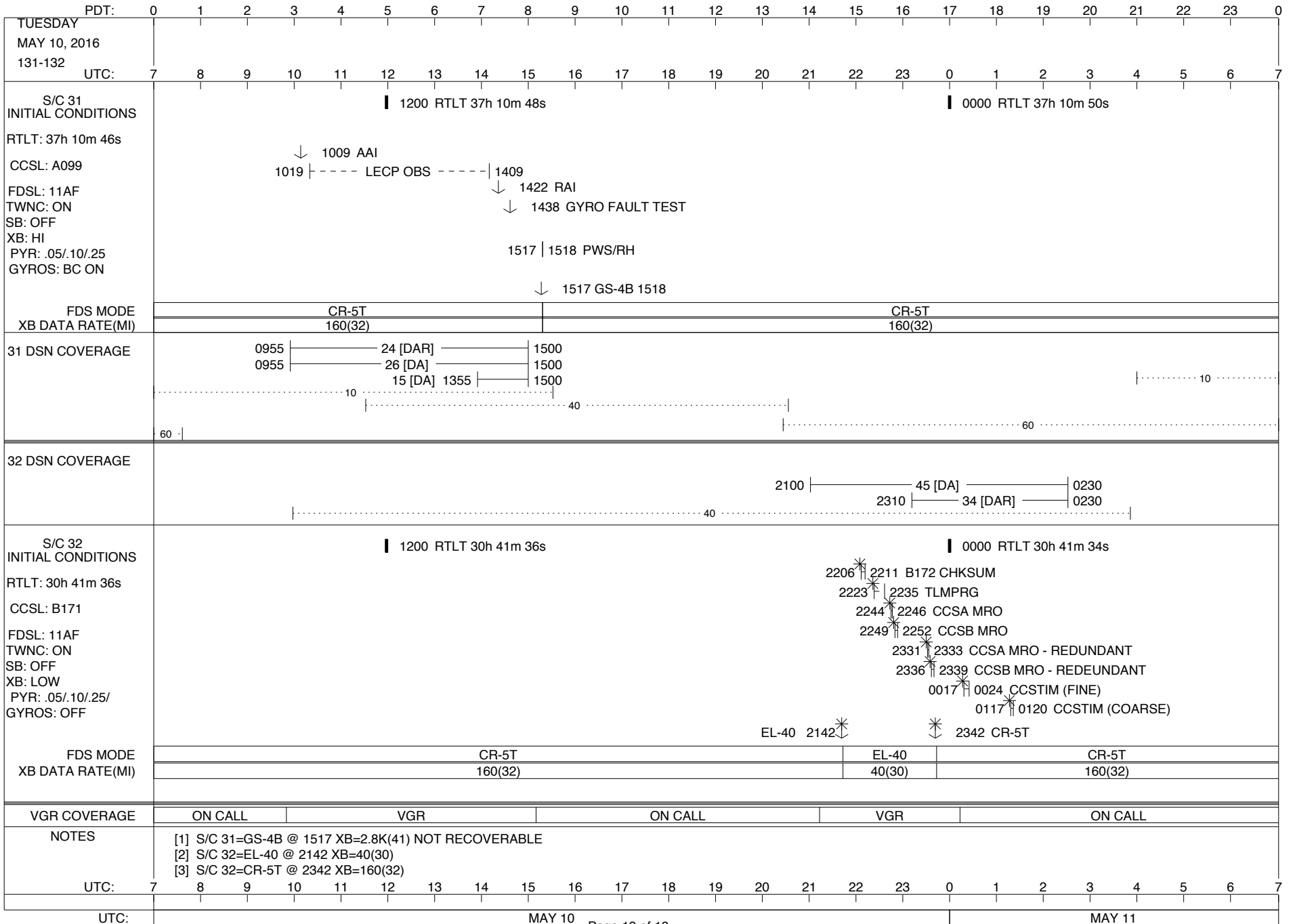
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SATURDAY MAY 7, 2016 128-129	UTC: 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLT: 37h 10m 38s CCSL: A099 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON	1200 RTLT 37h 10m 38s												0000 RTLT 37h 10m 40s												
	----- TLC (SHORT-FORM) -----  D/L -  1309																								
													2152   2205 TAPPOS						0054   0055 PWS/RH						
																		0106   0107 TAPPOS							
													↓ 0054 GS-4B 0055												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	25 [DA]   0710 - 1410 24 [DAR] 1305   1410 10   60												40   10												
32 DSN COVERAGE	1615   34 [o]   2320												0135   0240 34 [DAR] 0135   0240 45 [DA] 40												
S/C 32 INITIAL CONDITIONS RTLT: 30h 41m 48s CCSL: B171 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 30h 41m 46s												0000 RTLT 30h 41m 44s												
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 @ 0054 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 07												MAY 08												

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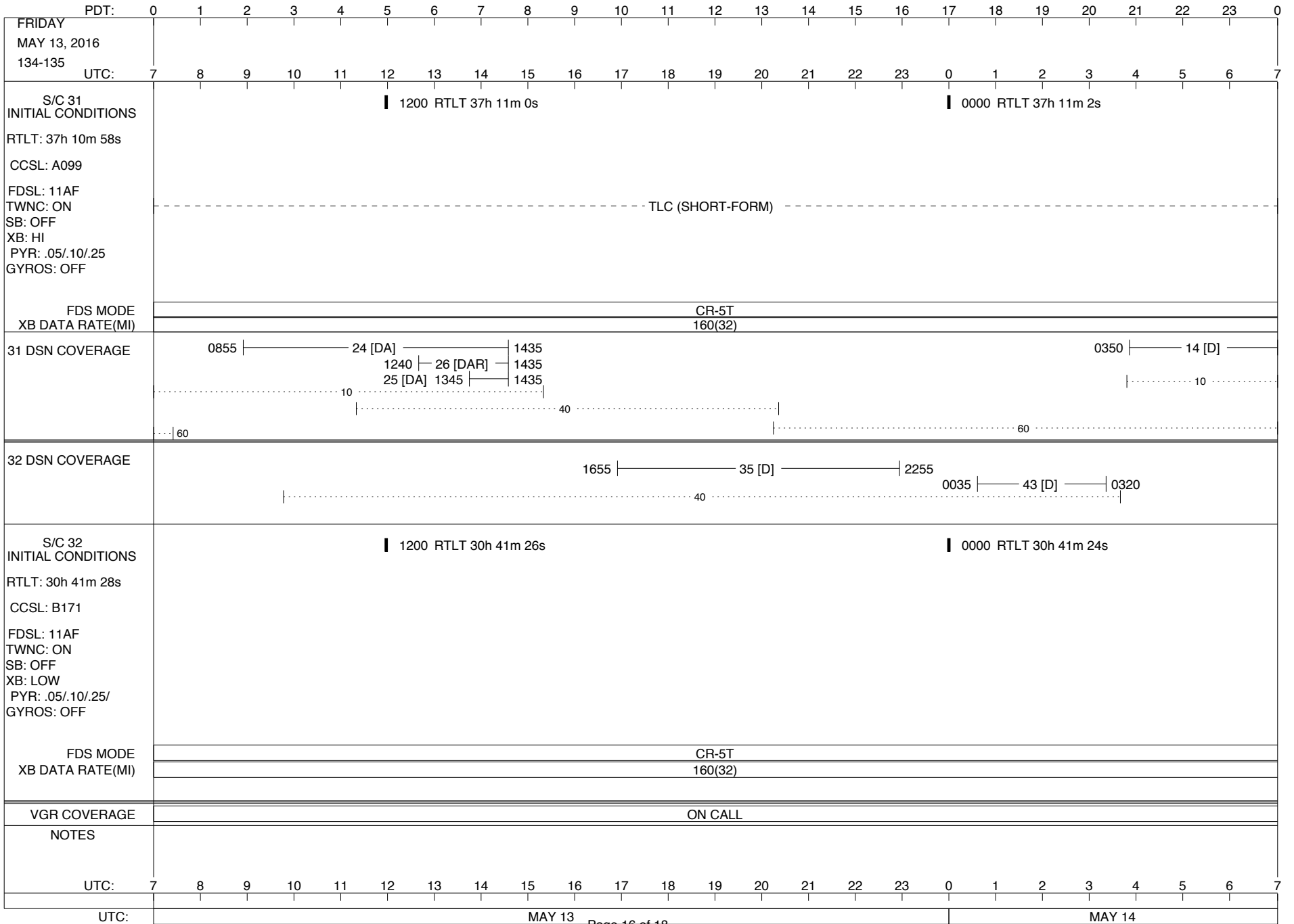
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MONDAY MAY 9, 2016 130-131	UTC: 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7					
S/C 31 INITIAL CONDITIONS RTLTL: 37h 10m 44s CCSL: A099 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON	1200 RTLTL 37h 10m 46s												0000 RTLTL 37h 10m 46s																	
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																													
31 DSN COVERAGE	0805  ----- 25 [DAR] -----  1400 0805  ----- 26 [DA] -----  1400 ..... ----- 10 -----  ..... ----- 40 -----  60 :												2030  ----- 63 [D] -----  0030 ..... ----- 60 -----																	
32 DSN COVERAGE	..... ----- 1155 ----- ----- 43 [H1] -----  2240 ..... ----- 40 -----																													
S/C 32 INITIAL CONDITIONS RTLTL: 30h 41m 40s CCSL: B171 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 30h 41m 38s												0000 RTLTL 30h 41m 36s																	
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																													
VGR COVERAGE	VGR						VGR						ON CALL						VGR						ON CALL					
NOTES	[1] DSS-43 HPTXR DRV ON >=11:20:36																													
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 09												MAY 10																	



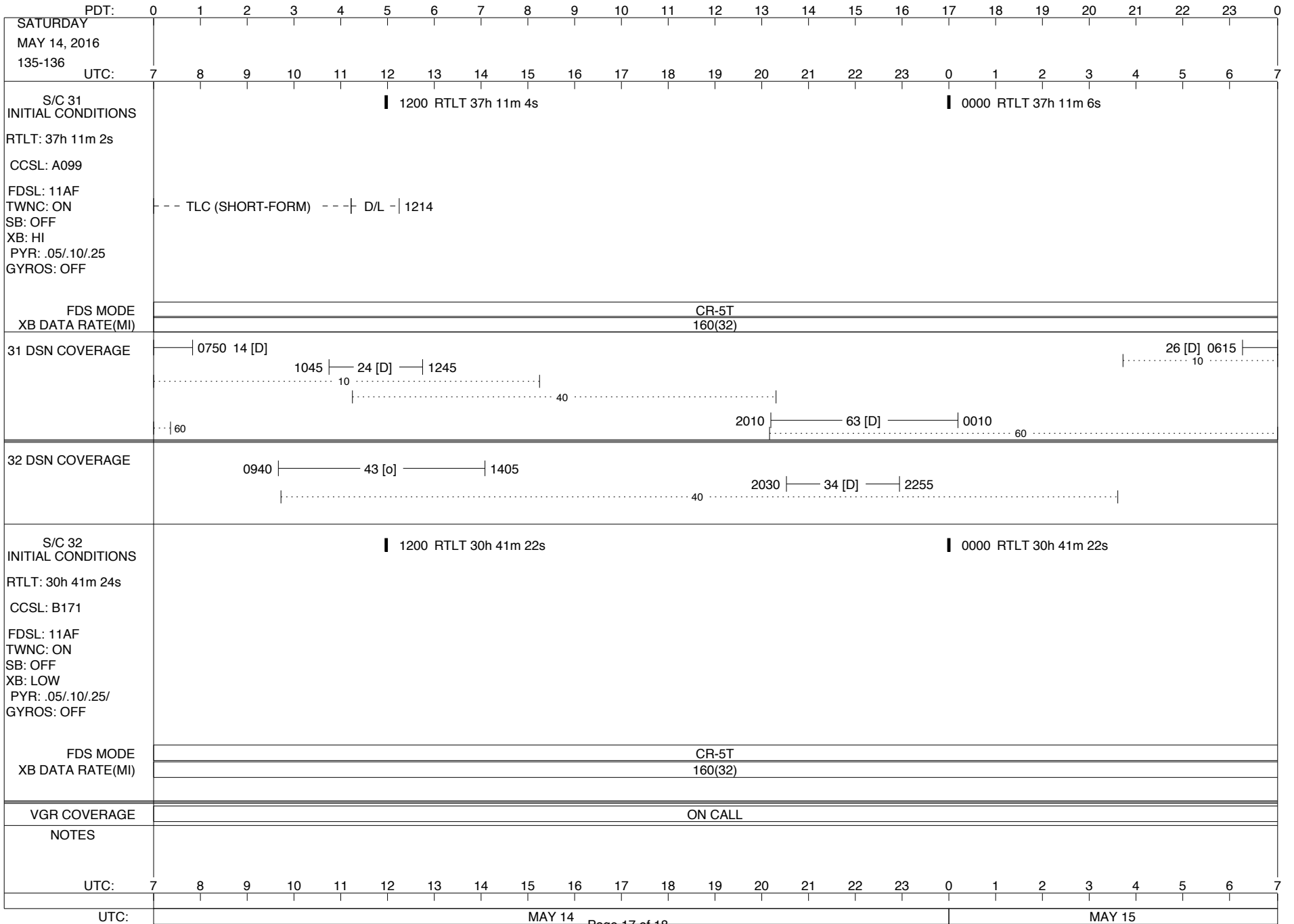
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WEDNESDAY MAY 11, 2016 132-133																												
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7			
S/C 31 INITIAL CONDITIONS RTLTL: 37h 10m 50s CCSL: A099 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON	<p>1200 RTLT 37h 10m 52s</p> <p>↓ 0834 AAI 0844  ----- LECP OBS -----  1233</p> <p>↓ 1246 RAI ↓ 1303 GYRO FAULT TEST ↓ 1311 GYROS OFF</p>														<p>0000 RTLT 37h 10m 54s</p> <p>1844  ---  1926 TAPPOS</p> <p>↓ 2227 YAW=.05 2237  ----- PLAYBACK -----  0455</p> <p>YAW=.10 0504 ↓</p>													
FDS MODE	CR-5T														PB-14							CR-5T						
XB DATA RATE(MI)	160(32)														1.4K(39)							160(32)						
31 DSN COVERAGE	<p>0820  ----- 25 [DA] -----  1355</p> <p>0820  ----- 26 [DAR] -----  1355</p> <p>..... 10 .....</p> <p>60  ----- 40 .....</p>														<p>2030 - 0645  ----- 63 [DA] ----- </p> <p>2155  ----- 55 [DA] -----  0455</p> <p>2155  ----- 65 [DAR] -----  0455</p> <p>..... 60 .....</p>													
32 DSN COVERAGE	<p>1115  ----- 43 [H1o] -----  1515</p> <p>..... 40 .....</p>														<p>2050  ----- 34 [D] -----  2305</p> <p>..... 40 .....</p>													
S/C 32 INITIAL CONDITIONS RTLTL: 30h 41m 34s CCSL: B171 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	<p>1200 RTLT 30h 41m 32s</p>														<p>0000 RTLT 30h 41m 30s</p>													
FDS MODE	CR-5T																											
XB DATA RATE(MI)	160(32)																											
VGR COVERAGE	VGR							ON CALL							VGR							ON CALL						
NOTES	<p>[1] B172 BACKUP U/L SUPPORT, DSS-43 HPTXR DRV ON &gt;= 11:12:38</p> <p>[2] S/C 31=PB-14 @ 2237 XB=1.4K(39)</p> <p>[3] S/C 31=CR-5T @ 0455 XB=160(32)</p>																											
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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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		
SUNDAY MAY 15, 2016 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 RTLT: 37h 11m 6s CCSL: A099 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 37h 11m 10s</p> </div>																										
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)													
31 DSN COVERAGE	<div style="text-align: center;"> <p>26 [D] —————   1240</p> <p>..... </p> <p>.....  40 .....</p> <p>..... </p> <p>.....  60</p> </div>																										
32 DSN COVERAGE	<div style="text-align: center;"> <p>1640  ————— 45 [D] —————  2250</p> </div>																										
S/C 32 INITIAL CONDITIONS RTLT: 30h 41m 22s CCSL: B171 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 30h 41m 20s</p> </div>																										
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 15													MAY 16													