

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: June 18, 2009

For the Period: 06/18/09 to 07/13/09 (09-169– 09-194)

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

**SCIENCE**

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

**DSOT (1) 230-102**

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**OTHER**

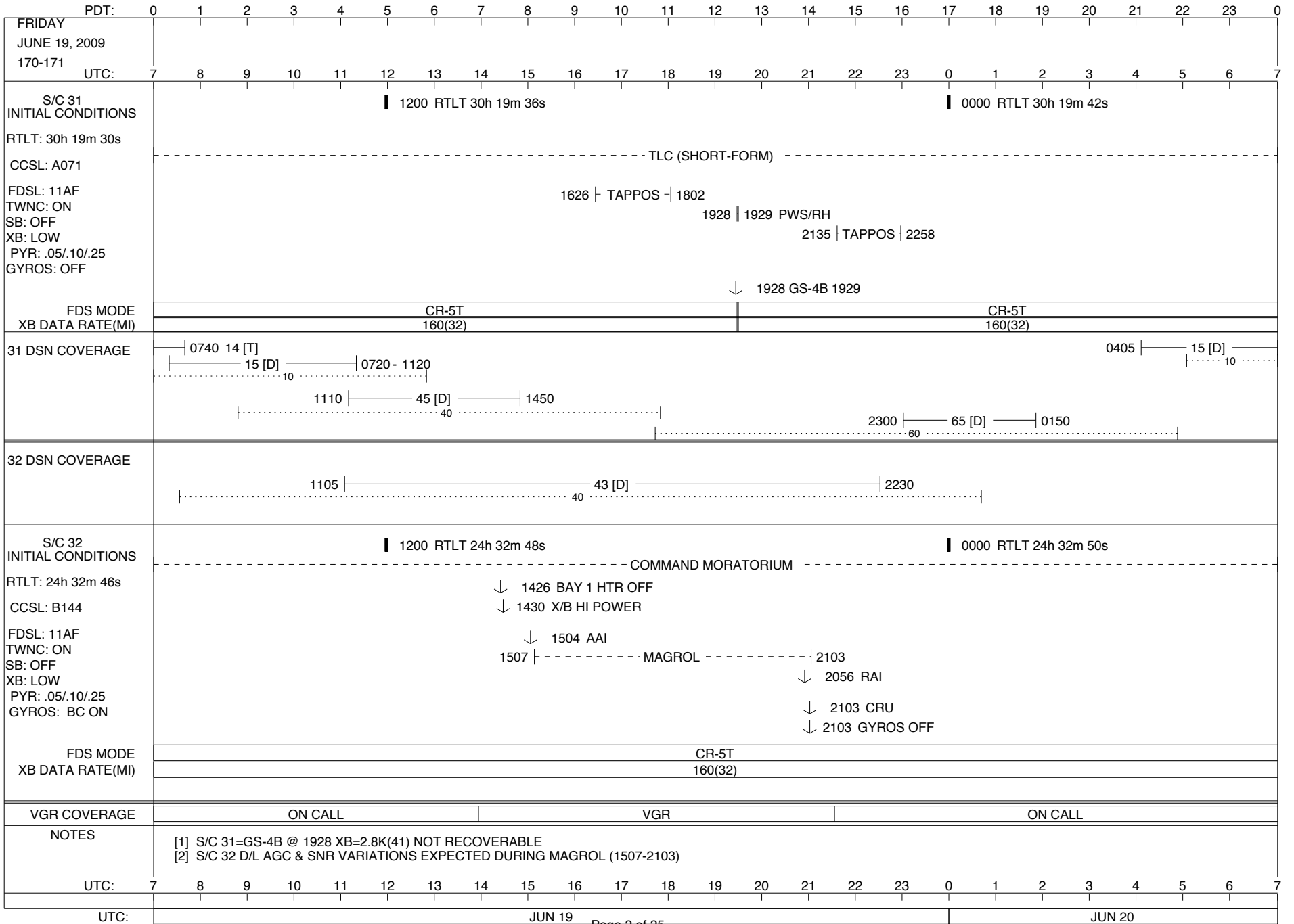
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 \* Belinda.Arroyo@jpl.nasa.gov  
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**LEGEND:**

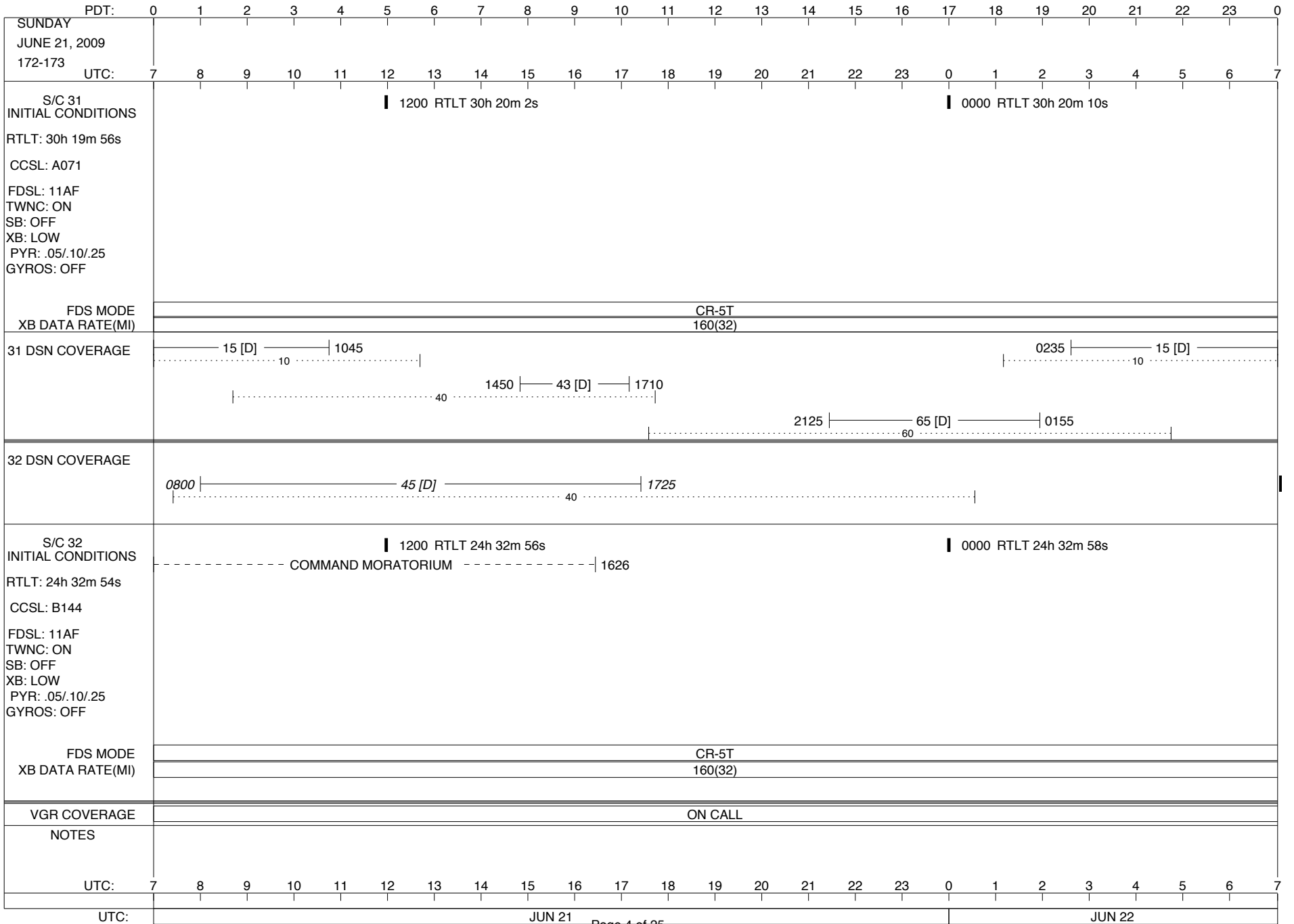
∇ = R/T Command (Last chance or Contingency)  
 ▼ = R/T Command (Scheduled)  
 \* = Result of R/T Command  
 n = (where n = 1,2,3 ..) Special Note, see bottom of page  
 A = Arrayed station  
 B = 7-Point BLF  
 D = Downlink only pass  
 H = High Power Transmitter  
 R = Array Reference Antenna  
 T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

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

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
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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: 30h 19m 16s CCSL: A071 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						1200												0000							
																					0250				
FDS MODE XB DATA RATE(MI)																									
31 DSN COVERAGE																									
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS RTLTL: 24h 32m 42s CCSL: B144 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: BC ON						1200												0000							
FDS MODE XB DATA RATE(MI)																									
VGR COVERAGE																									
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:																									



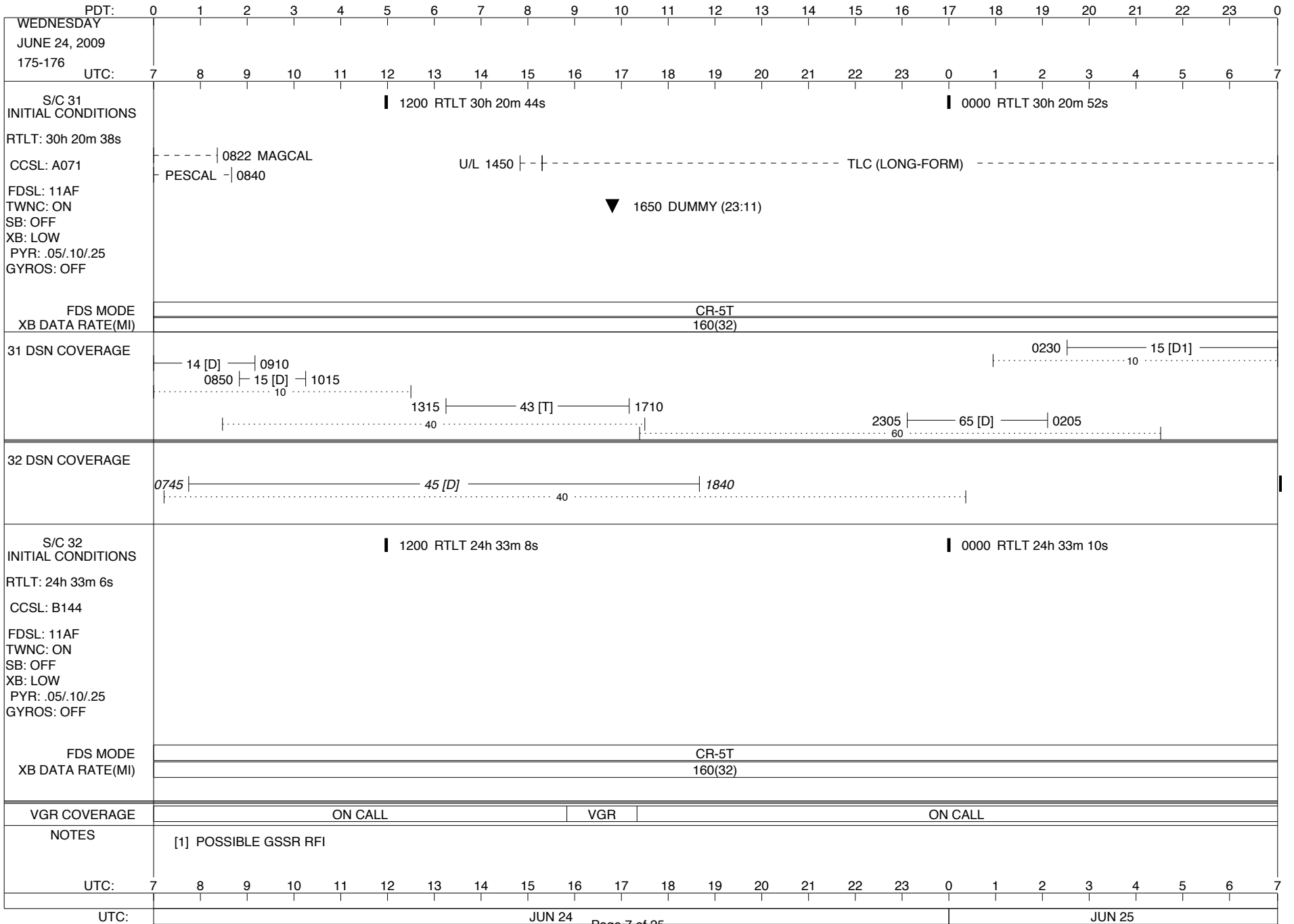
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SATURDAY JUNE 20, 2009 171-172	UTC: 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLTL: 30h 19m 42s CCSL: A071 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 30h 19m 50s												0000 RTLT 30h 19m 56s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
31 DSN COVERAGE	15 [D]   1120 .....   .....40.....										2035   54 [DAR]   2305 2035   55 [DAR]   2305 2245   65 [D]   0205 .....														
32 DSN COVERAGE	1105   43 [DA]   1620 .....   .....40.....  1515   45 [DAR]   2145 .....																								
S/C 32 INITIAL CONDITIONS RTLTL: 24h 32m 50s CCSL: B144 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 24h 32m 52s												0000 RTLT 24h 32m 54s												
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 32=EH-12@1548 XB=1.2K(39) [2] S/C 32-CR-5T@1616 XB=160(32)																								
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:	JUN 20												JUN 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 JUNE 22, 2009 173-174	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: 30h 20m 10s CCSL: A071 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 30h 20m 16s												0000 RTLT 30h 20m 24s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	15 [D] 0850 1045 45 [D] 1530 40												0505 15 [D1] 2315 65 [D] 0310 60												
32 DSN COVERAGE	1310 43 [B] 1710 1650 34 [D] 2130 40																								
S/C 32 INITIAL CONDITIONS RTLT: 24h 32m 58s CCSL: B144 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 24h 33m 0s												0000 RTLT 24h 33m 2s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE	ON CALL						VGR						ON CALL												
NOTES	[1] POSSIBLE GSSR RFI																								
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:	JUN 22												JUN 23												

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 JUNE 23, 2009 174-175																									
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S/C 31 INITIAL CONDITIONS RTLT: 30h 20m 24s CCSL: A071 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 30h 20m 30s												█ 0000 RTLT 30h 20m 38s												
	1304   1305 PWS/RH												0519   MAGCAL - 0519   PESCAL -												
	↓ 1304 GS-4B 1305																								
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	15 [D1]   0930 10												0230   15 [D]   0610 0550   14 [D]												
	1210   45 [D]   1525 40												10												
													60												
32 DSN COVERAGE	1215   34 [o]   1755 40																								
S/C 32 INITIAL CONDITIONS RTLT: 24h 33m 2s CCSL: B144 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 24h 33m 4s												█ 0000 RTLT 24h 33m 6s												
FDS MODE	CR-5T																								
XB DATA RATE(MI)	160(32)																								
VGR COVERAGE													ON CALL												
NOTES	[1] S/C 31=GS-4B @ 1304 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:	JUN 23												JUN 24												

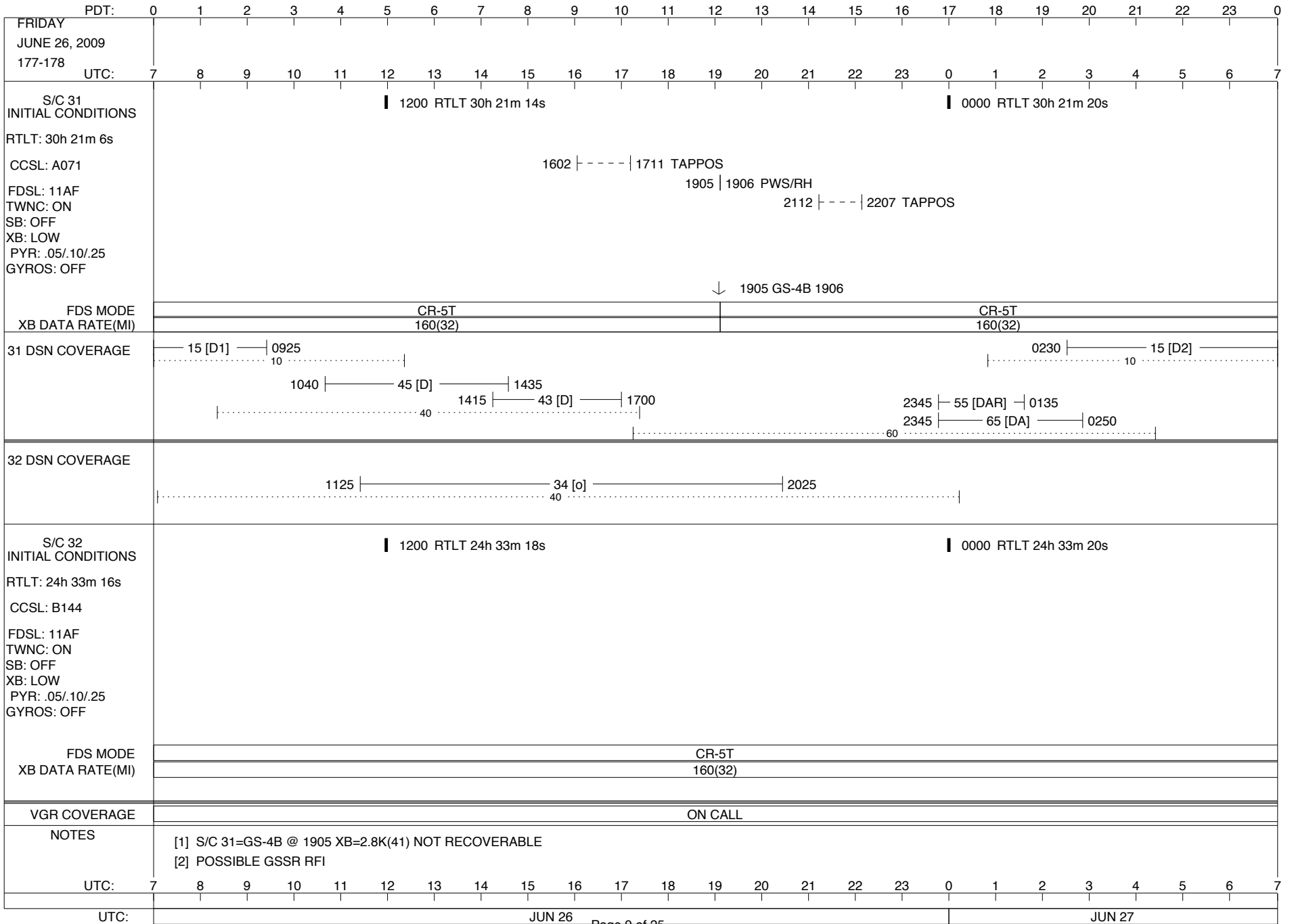
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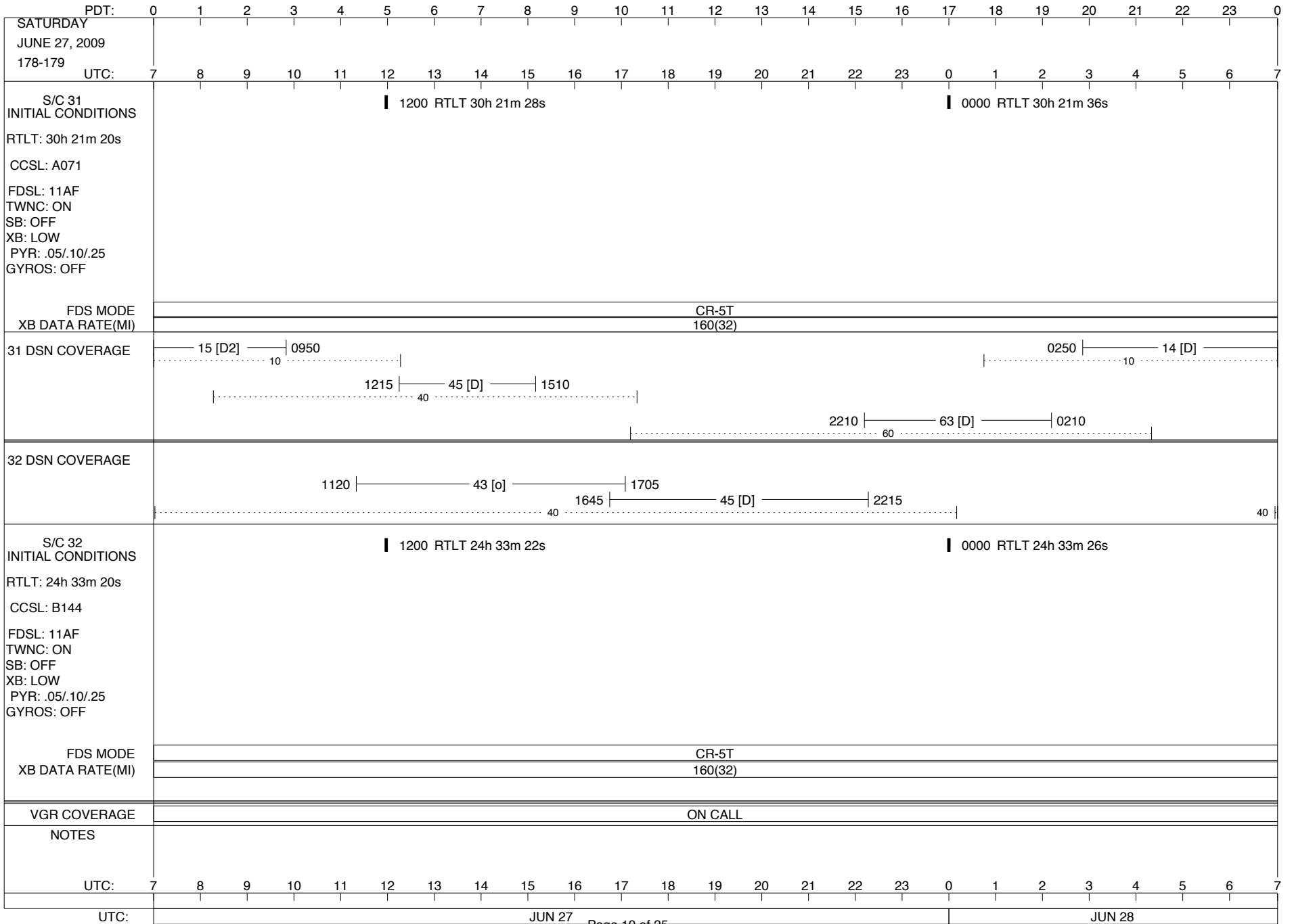


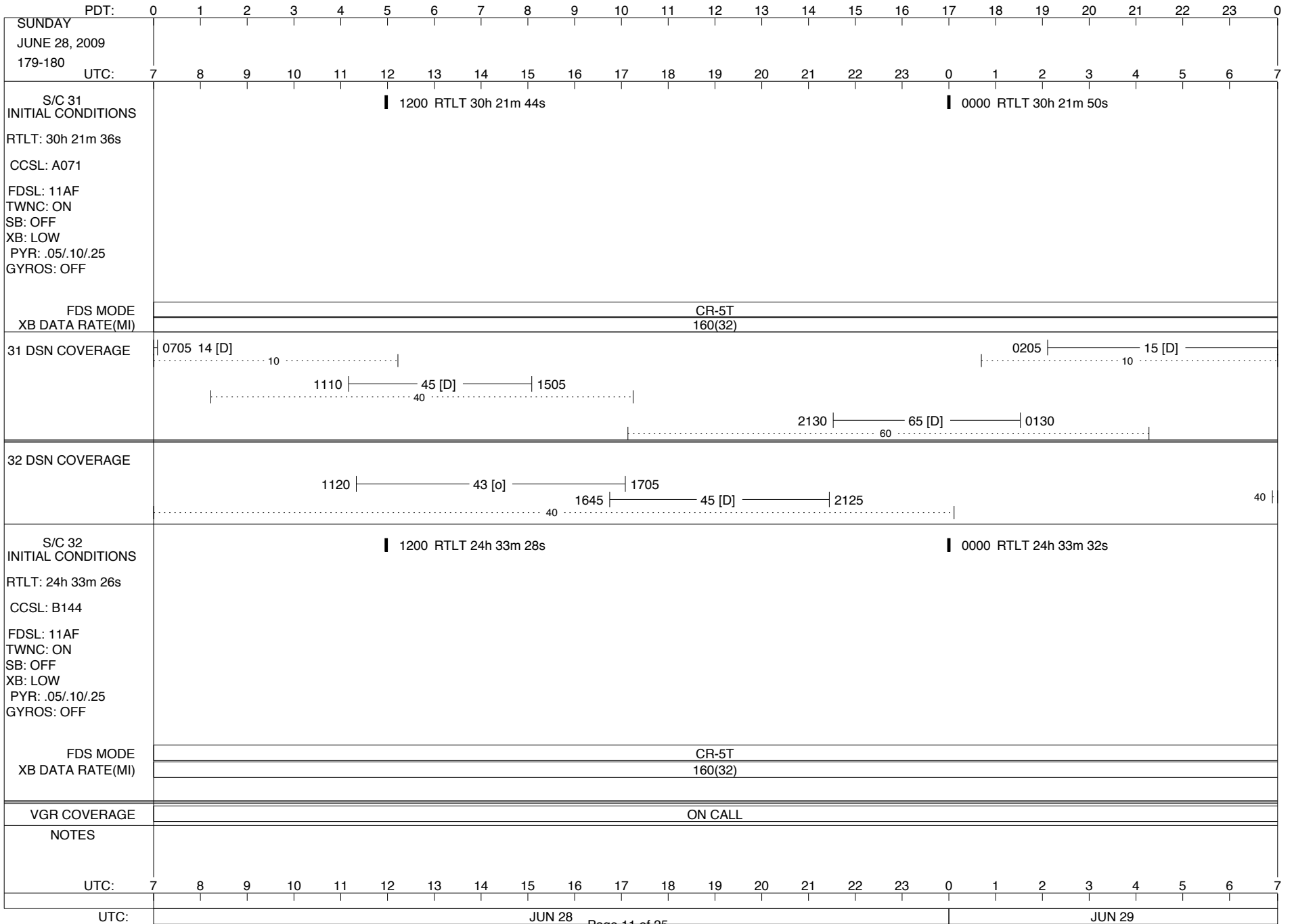


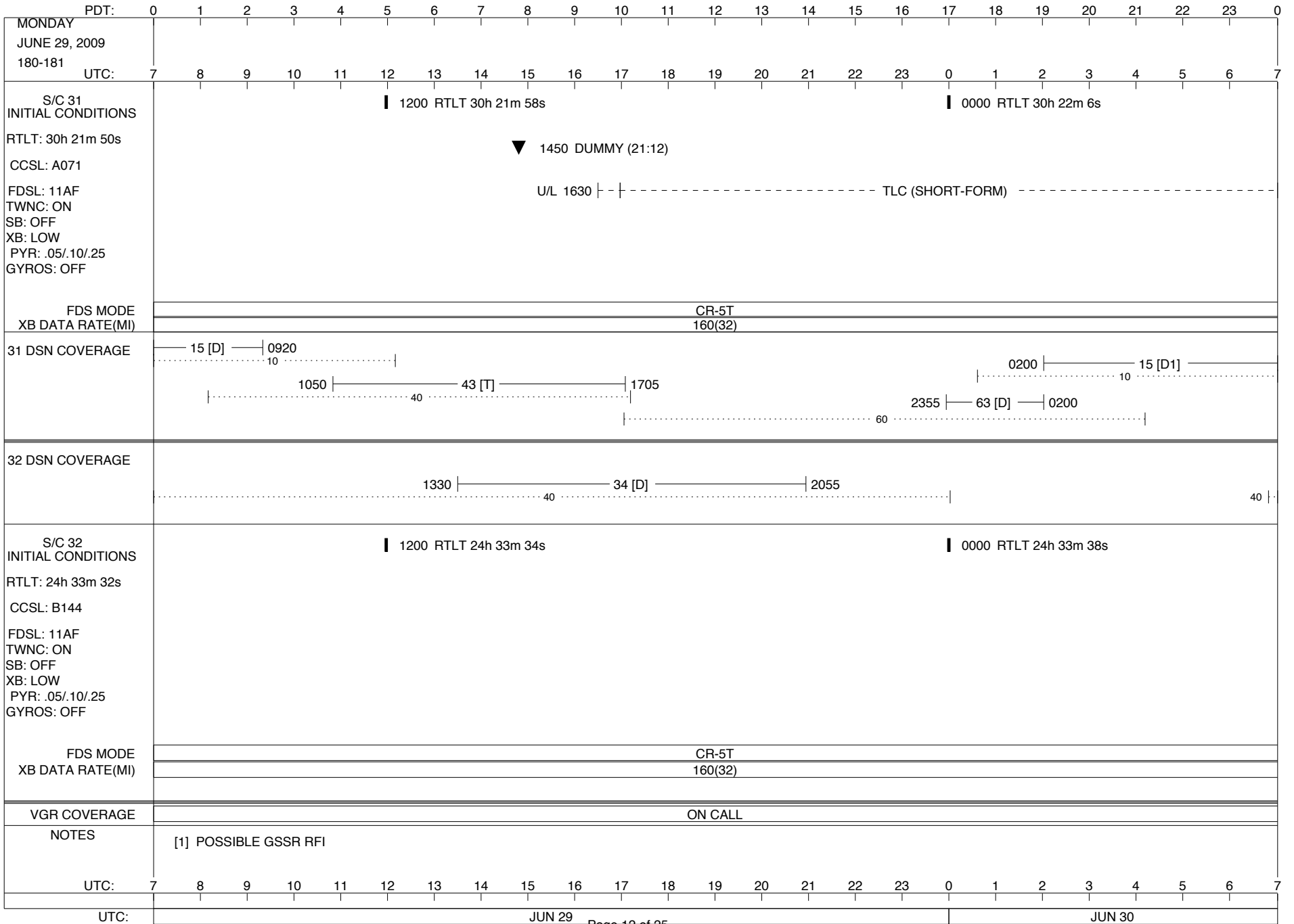
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THURSDAY JUNE 25, 2009 176-177																											
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7		
S/C 31 INITIAL CONDITIONS RTLTL: 30h 20m 52s CCSL: A071 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	█ 1200 RTLTL 30h 20m 58s												█ 0000 RTLTL 30h 21m 6s														
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)														
31 DSN COVERAGE	15 [D1]   1100 .....												0215   15 [D1]   .....														
	1305   45 [D]   1520 .....												2040   65 [D]   0235 .....														
32 DSN COVERAGE	1005   34 [D]   1710 .....																										
S/C 32 INITIAL CONDITIONS RTLTL: 24h 33m 10s CCSL: B144 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	█ 1200 RTLTL 24h 33m 12s												█ 0000 RTLTL 24h 33m 16s														
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)														
VGR COVERAGE													ON CALL														
NOTES	[1] POSSIBLE GSSR RFI																										
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:	JUN 25														JUN 26												

ISSUE DATE: 06/22/09 14:14







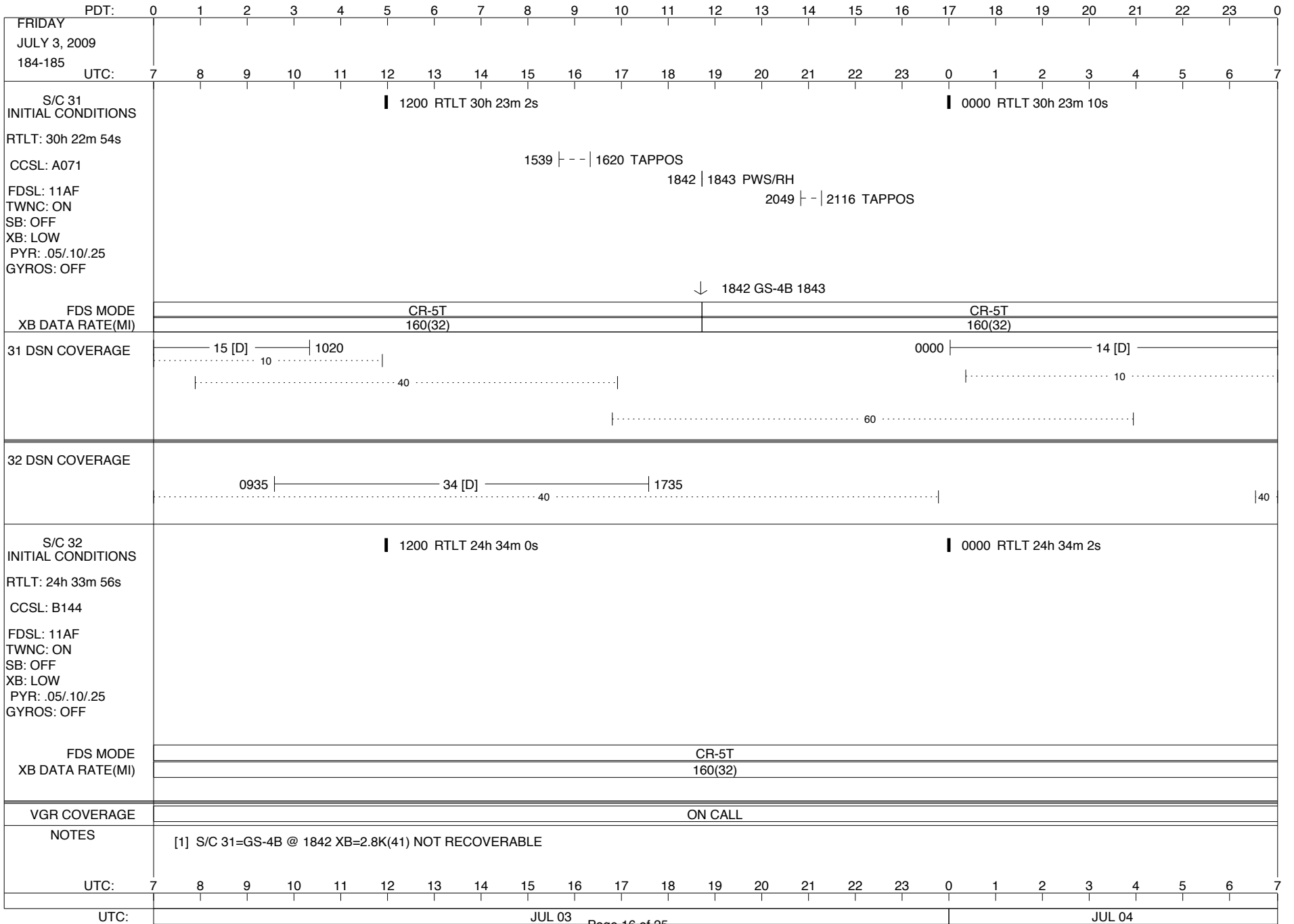


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TUESDAY JUNE 30, 2009 181-182																												
S/C 31 INITIAL CONDITIONS RTLTL: 30h 22m 6s CCSL: A071 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 30h 22m 14s												0000 RTLTL 30h 22m 22s															
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)															
31 DSN COVERAGE	15 [D1]   0915   10   .....   40   .....   2105   60   63 [D]   0225   10   .....   0205   15 [D]																											
32 DSN COVERAGE	1205   .....   40   43 [H]   .....   2255   .....   40																											
S/C 32 INITIAL CONDITIONS RTLTL: 24h 33m 38s CCSL: B144 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 24h 33m 40s												0000 RTLTL 24h 33m 44s															
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)															
VGR COVERAGE	ON CALL												VGR								ON CALL							
NOTES	[1] S/C 31=GS-4B @ 1241 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:	JUN 30														JUL 01													

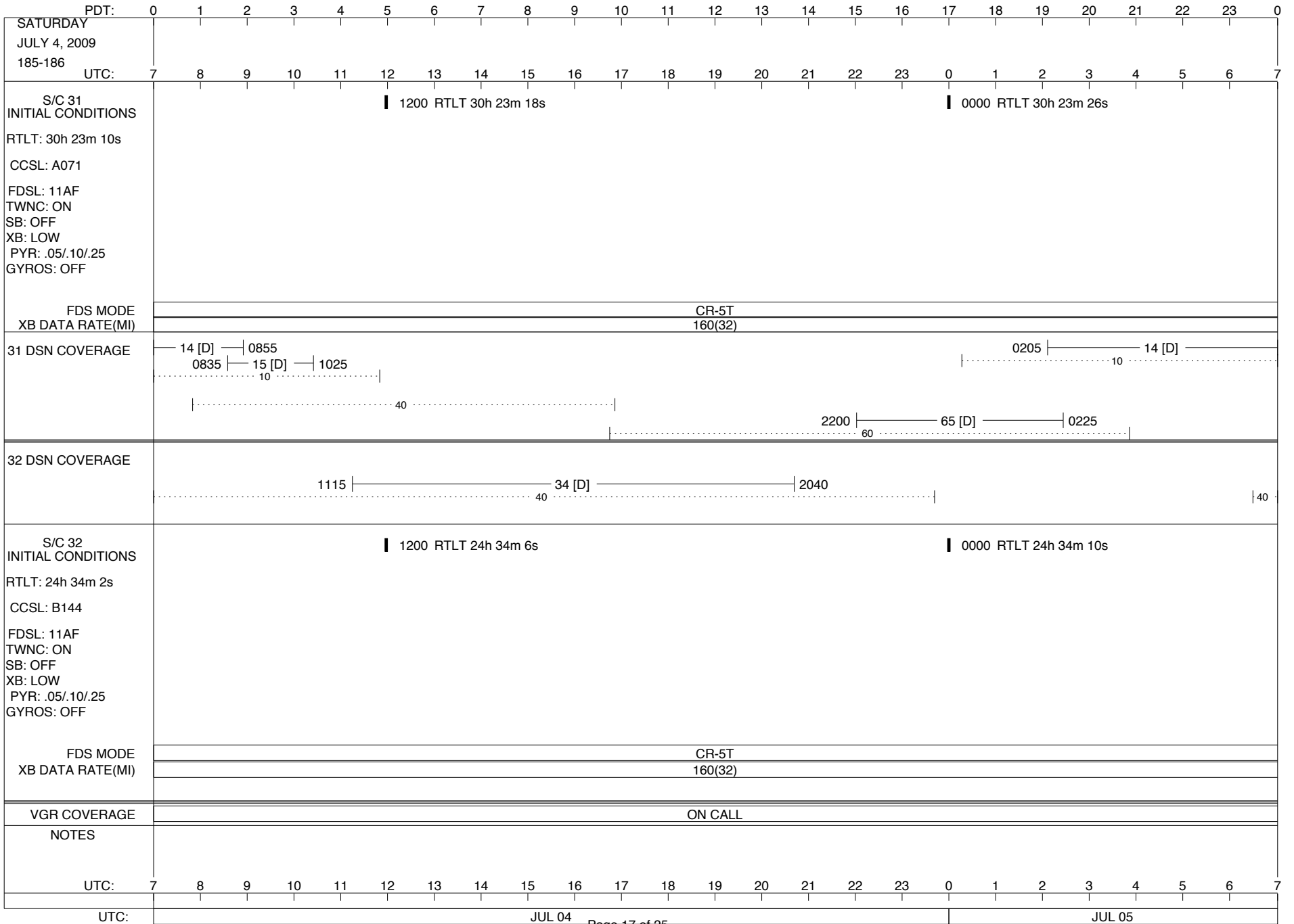
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WEDNESDAY JULY 1, 2009 182-183																									
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLT: 30h 22m 22s CCSL: A071 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 30h 22m 30s												0000 RTLT 30h 22m 38s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
31 DSN COVERAGE	15 [D] 0915 0855 24 [DAR] 1105 0855 25 [DA] 1105 10 40 2150 63 [D] 0305 60												0300 15 [D] 10												
32 DSN COVERAGE	0930 43 [D] 1705 1810 45 [D] 2145 40												40												
S/C 32 INITIAL CONDITIONS RTLT: 24h 33m 44s CCSL: B144 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 24h 33m 46s												0000 RTLT 24h 33m 50s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE	ON CALL						VGR						ON CALL												
NOTES	* 1424 - 1449 HPOINT1 PTR DRIBBLE MRO * 1525 - 1550 HPOINT1 PTR DRIBBLE MRO																								
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:	JUL 01												JUL 02												

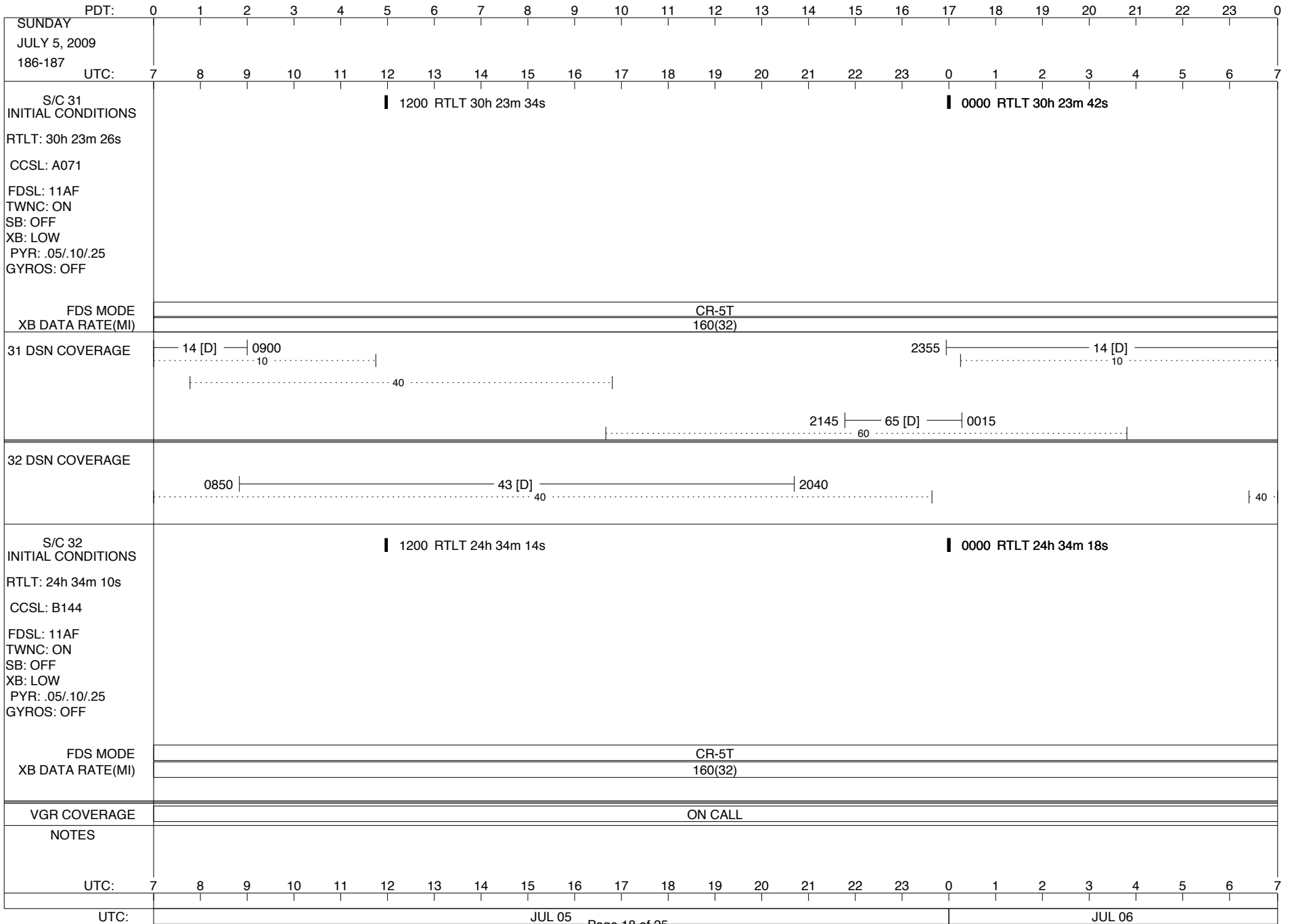
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THURSDAY JULY 2, 2009 183-184																										
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
S/C 31 INITIAL CONDITIONS RTLTL: 30h 22m 38s CCSL: A071 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█	1200														█	0000				
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
31 DSN COVERAGE	15 [D]   1030  -----   -----   -----											0150   15 [D]    -----   -----														
	-----  40											2300   65 [D]   0145  -----														
32 DSN COVERAGE	45 [D]   0715 - 1420  -----											-----  40														
S/C 32 INITIAL CONDITIONS RTLTL: 24h 33m 50s CCSL: B144 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█	1200															█	0000			
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
VGR COVERAGE													ON CALL													
NOTES	JPL HOLIDAY!																									
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:	JUL 02													JUL 03												





ISSUE DATE: 06/22/09 14:14

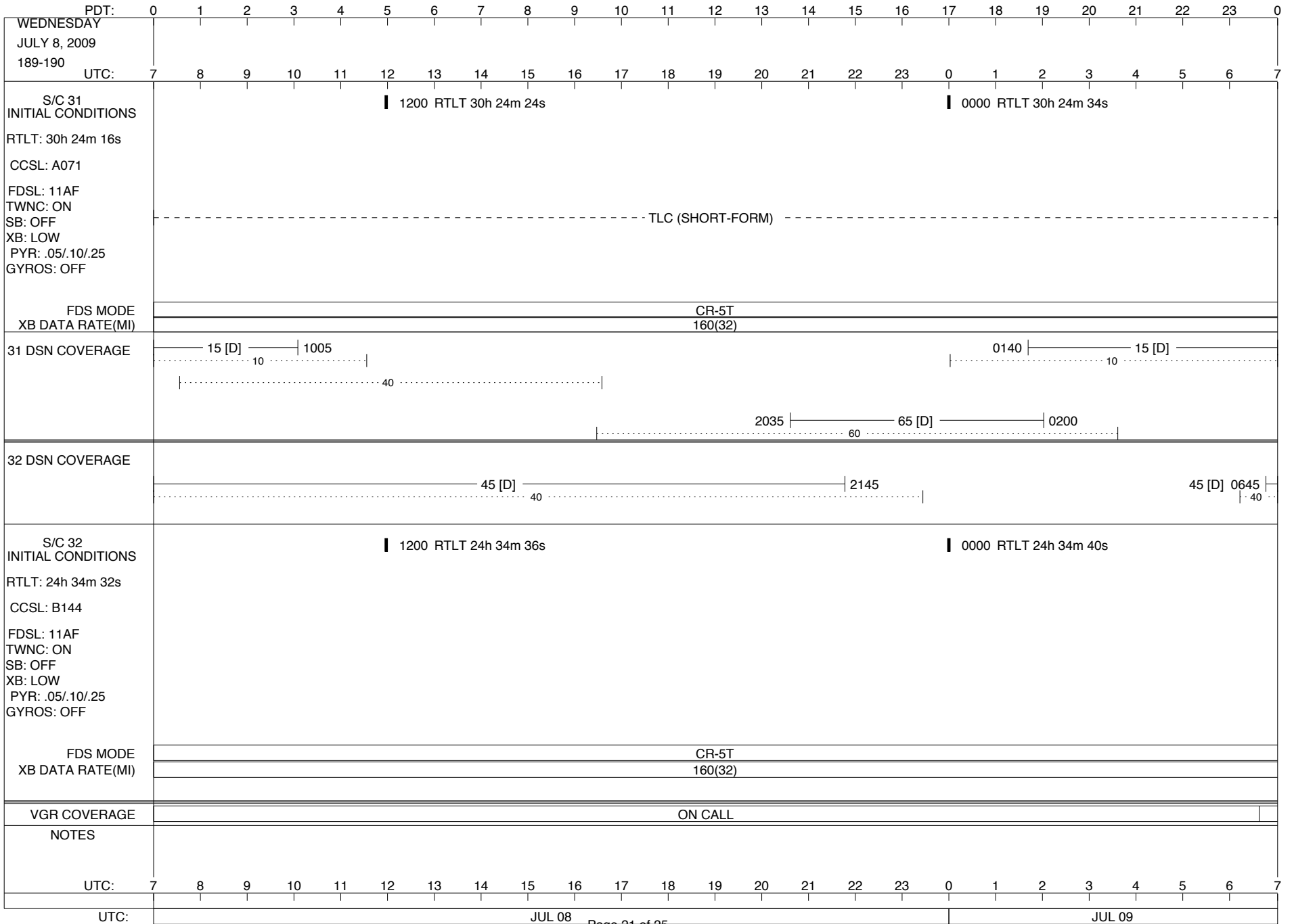




ISSUE DATE: 06/22/09 14:14

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 JULY 6, 2009 187-188																									
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: 30h 23m 42s CCSL: A071 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 30h 23m 50s												0000 RTLTL 30h 24m 0s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	14 [D] 0855  -----  10										2350 14 [D]  -----  10														
	-----  40										-----  60														
32 DSN COVERAGE	1445 43 [B] 2145  -----  40										45 [D] 0655  -----  40														
S/C 32 INITIAL CONDITIONS RTLTL: 24h 34m 18s CCSL: B144 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 24h 34m 20s												0000 RTLTL 24h 34m 24s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL												VGR ON CALL												
NOTES													▼ 1542 DUMMY (5 MIN BRACKETED 16:17)												
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:	JUL 06												JUL 07												

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 JULY 7, 2009 188-189	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: 30h 24m 0s CCSL: A071 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 30h 24m 8s												0000 RTLT 30h 24m 16s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	14 [D] 0855 10												0405 15 [D] 10												
	40												2315 63 [T] 0425 60												
32 DSN COVERAGE	45 [D] 1710 40												45 [D] 0650 40												
S/C 32 INITIAL CONDITIONS RTLT: 24h 34m 24s CCSL: B144 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 24h 34m 28s												0000 RTLT 24h 34m 32s												
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 @ 1218 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:	JUL 07												JUL 08												



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 JULY 9, 2009 190-191	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: 30h 24m 34s CCSL: A071 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 30h 24m 42s												0000 RTLT 30h 24m 50s												
0732 - 0736 A072 CHKSUM 0804   0804 2 AHELIO SID MRO'S -----  TLC (SHORT-FORM)   D/L   1012 * ↓ 0706 EL-40 * ↓ 0806 CR-5T																									
FDS MODE XB DATA RATE(MI)	EL-40 40(30)												CR-5T 160(32)												
31 DSN COVERAGE	15 [D]   1000 .....    .....40 .....												0140   15 [D]   .....  .....10 .....												
													2045   65 [D]   0200 .....  .....60 .....												
32 DSN COVERAGE	45 [D]   1715 .....  .....40 .....												.....40 ..												
S/C 32 INITIAL CONDITIONS RTLT: 24h 34m 40s CCSL: B144 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 24h 34m 44s												0000 RTLT 24h 34m 48s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE	VGR												ON CALL												
NOTES	[1] SC 31=EL-40 XB=40(30) @ 0706 [2] SC 31=CR-5T XB=160(32) @ 0806																								
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:	JUL 09												JUL 10												

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 JULY 10, 2009 191-192																										
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: 30h 24m 50s CCSL: A071 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 30h 25m 0s												0000 RTLT 30h 25m 8s													
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
31 DSN COVERAGE	15 [D]   0835 .....  .....40.....												0430   14 [D] .....  .....60.....													
32 DSN COVERAGE	0905   45 [D]   1805 .....  .....40.....												.....  .....40.....													
S/C 32 INITIAL CONDITIONS RTLT: 24h 34m 48s CCSL: B144 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 24h 34m 52s												0000 RTLT 24h 34m 56s													
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 @ 1819 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:	JUL 10												JUL 11													



