

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: June 13, 2018

For the Period: 06/14/18 to 07/02/18 (18/165 – 18/183)

DSN OPSCHIEF	230-102	SCIENCE	FLIGHT TEAM	600-100
DSOT	230-102	CRS bryant@mail630.gsfc.nasa.gov LECP r.decker@jhuapl.edu MAG u2mha@lepvax.gsfc.nasa.gov PLS vgr@space.mit.edu PWS wsk@space.physics.uiowa.edu Leonard.F.Burlaga@nasa.gov Donald-Gurnett@uiowa.edu	Dodd, S. Hall, J. Howard, S. Ko, A. Ledeboer, W. Ludwig, R. Matsumoto, S. Medina, E. Peralta, F. Weeks, T. Yang, L.	

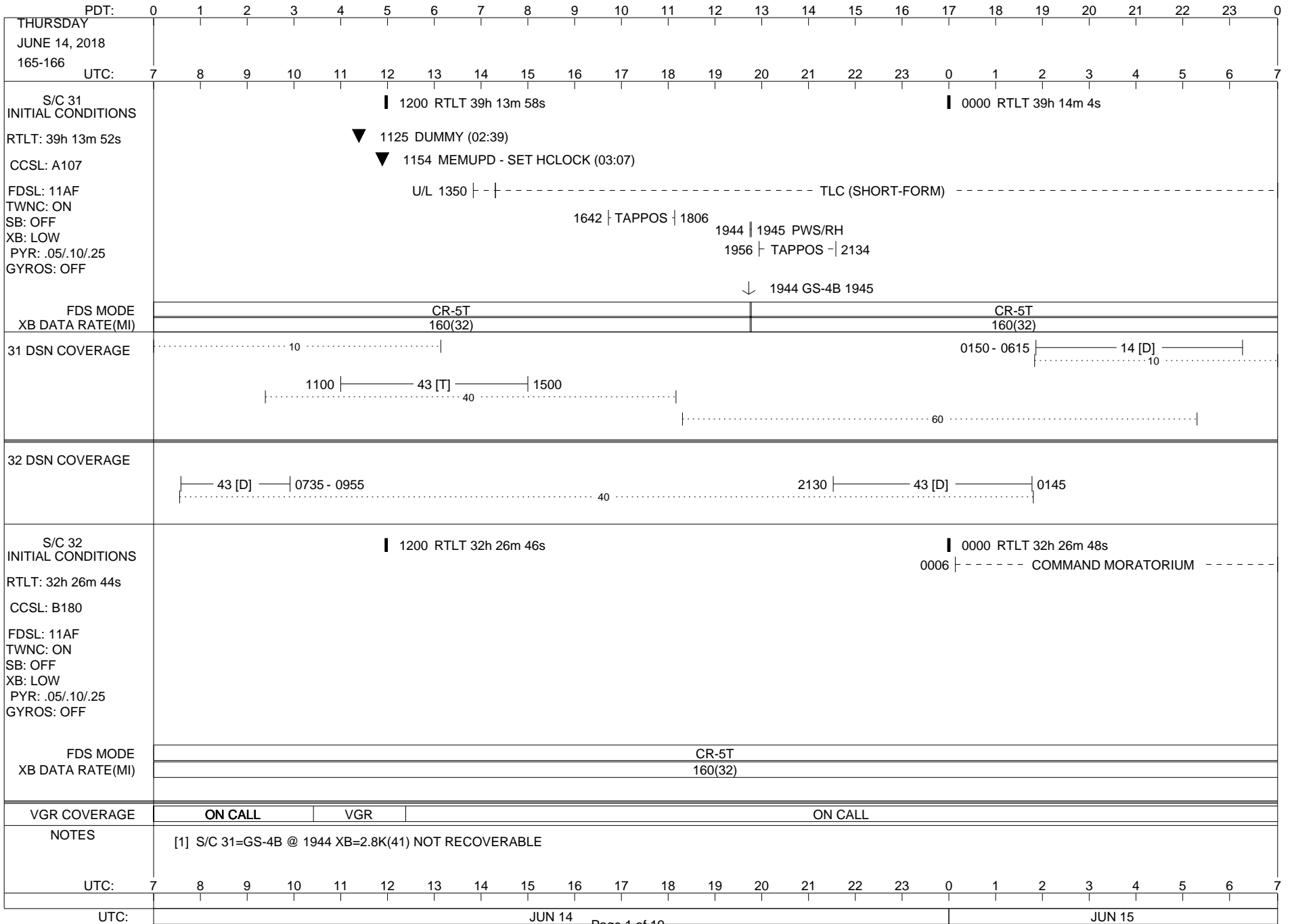
**LEGEND:**

- ∇ = 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

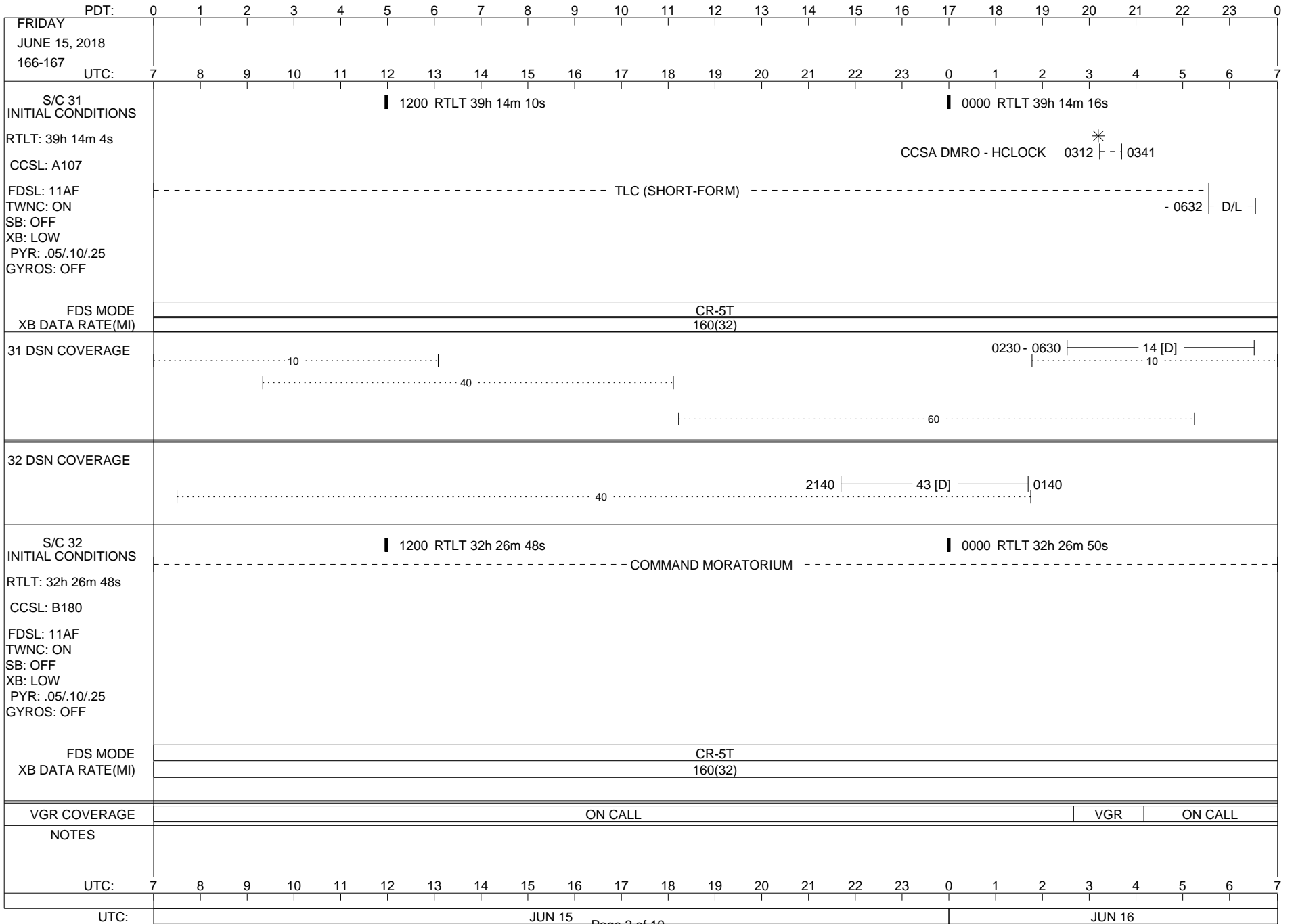
Posted at [http://voyager.jpl.nasa.gov/mission/soesfos/tracking\\_schedule.html](http://voyager.jpl.nasa.gov/mission/soesfos/tracking_schedule.html)

02/27/17

ISSUE DATE: 06/12/18 08:09



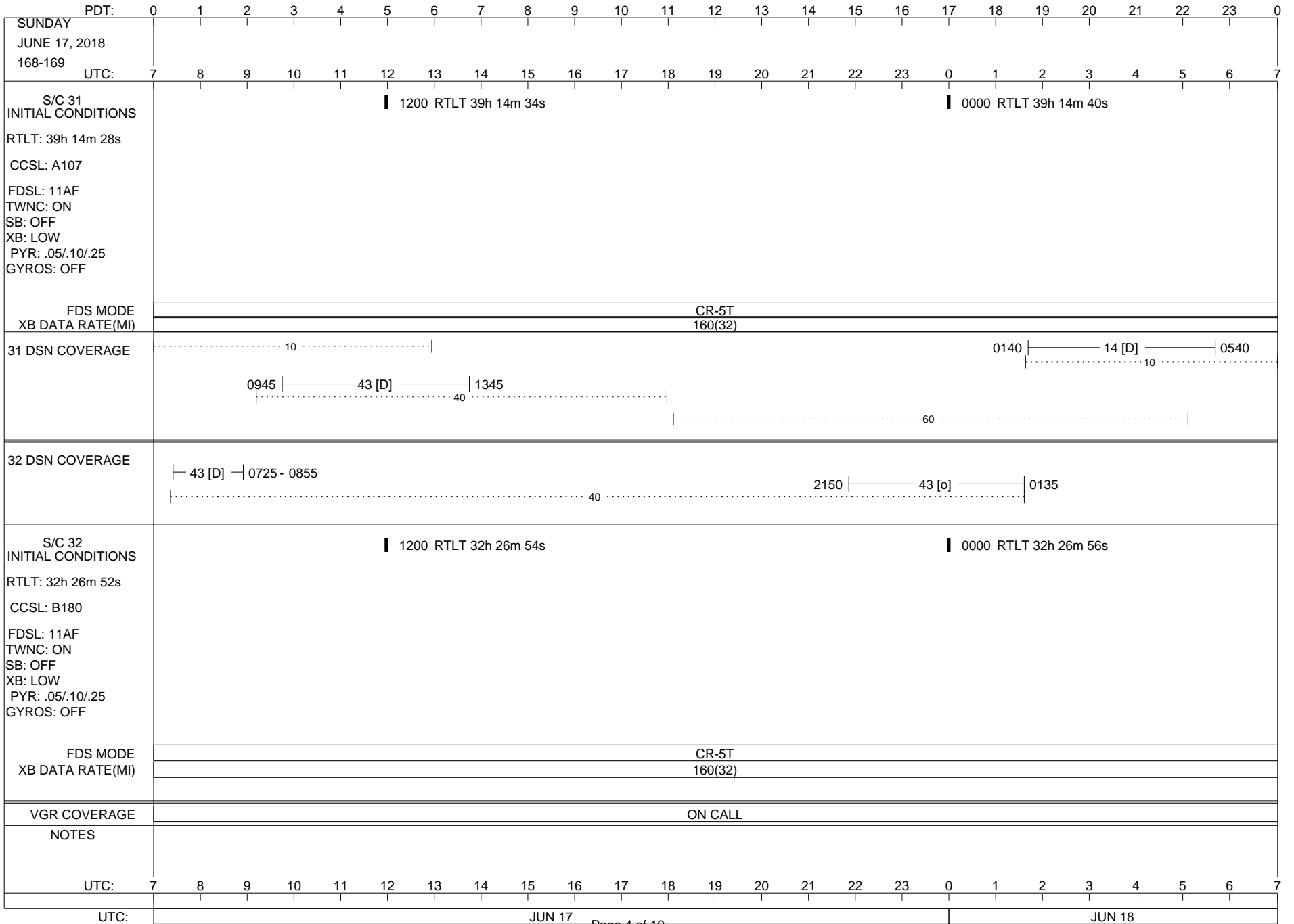
ISSUE DATE: 06/12/18 08:09



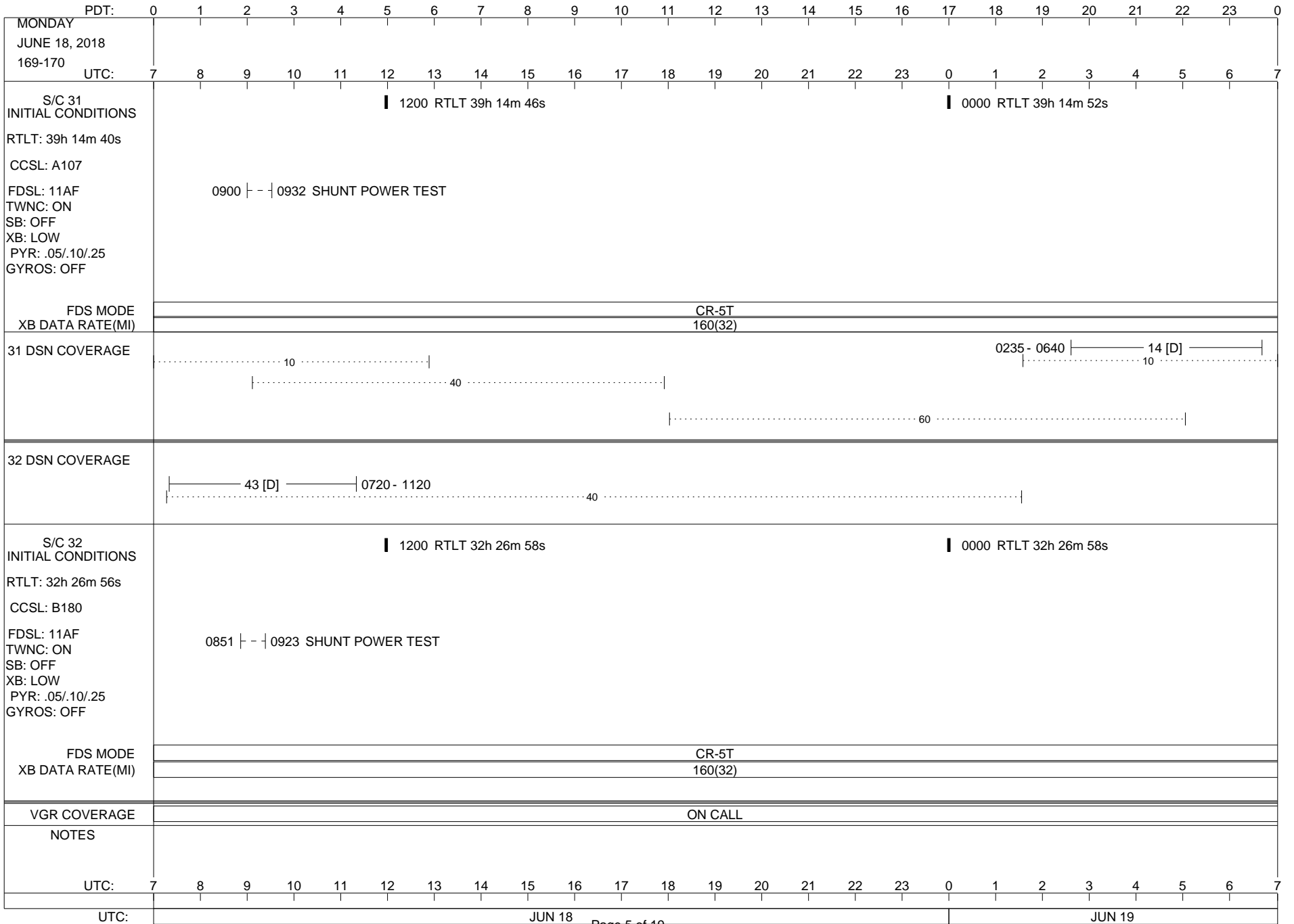
ISSUE DATE: 06/12/18 08:09

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SATURDAY JUNE 16, 2018 167-168	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: 39h 14m 16s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 14m 22s												0000 RTLT 39h 14m 28s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	..... 10 .....												..... 10 .....												
	----- 40 -----												----- 60 -----												
32 DSN COVERAGE	0800  ----- 43 [DAR] -----  1230 0815  ----- 36 [DA] -----  1030												0005  ----- 43 [D] -----  0135												
	----- 40 -----												----- 40 -----												
S/C 32 INITIAL CONDITIONS RTLTL: 32h 26m 50s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 26m 52s												0000 RTLT 32h 26m 52s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
VGR COVERAGE	VGR												ON CALL												
NOTES	[1] S/C 31=GS-4B @ 2244 XB=2.8K(41) NOT RECOVERABLE [2] S/C 32 = D/L AGC & SNR VARIATIONS EXPECTED DURING MAGROL (0907-1015)																								
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 16												JUN 17												

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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 JUNE 19, 2018 170-171																									
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S/C 31 INITIAL CONDITIONS RTLT: 39h 14m 52s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 39h 14m 58s												█ 0000 RTLT 39h 15m 4s							
FDS MODE XB DATA RATE(MI)						CR-5T 160(32)												CR-5T 160(32)							
31 DSN COVERAGE																									
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS RTLT: 32h 26m 58s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 32h 27m 0s												█ 0000 RTLT 32h 27m 2s							
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:																									

[1] S/C 31=GS-4B @ 1307 XB=2.8K(41) NOT RECOVERABLE

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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
WEDNESDAY JUNE 20, 2018 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 RTLT: 39h 15m 4s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 15m 10s												0000 RTLT 39h 15m 18s												
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
31 DSN COVERAGE	14 [D]   0840												10												
	10												40												
													60												
32 DSN COVERAGE	43 [D]   0710 - 1110												40												
S/C 32 INITIAL CONDITIONS RTLT: 32h 27m 2s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 27m 4s												0000 RTLT 32h 27m 6s												
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:	JUN 20												JUN 21												



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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
THURSDAY JUNE 21, 2018 172-173																									
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: 39h 15m 18s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 15m 24s												0000 RTLT 39h 15m 30s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	.....10.....												.....10.....												
	.....1305 -----43 [D]----- 1710												.....60.....												
	.....40.....												.....60.....												
32 DSN COVERAGE	.....0815 -----43 [D]----- 1215												.....0005  43 [B]  0115												
	.....40.....												.....40.....												
S/C 32 INITIAL CONDITIONS RTLT: 32h 27m 6s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 27m 8s												0000 RTLT 32h 27m 10s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL												VGR						ON CALL						
NOTES	[1] S/C 31=GS-4B @ 1920 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 21												JUN 22												

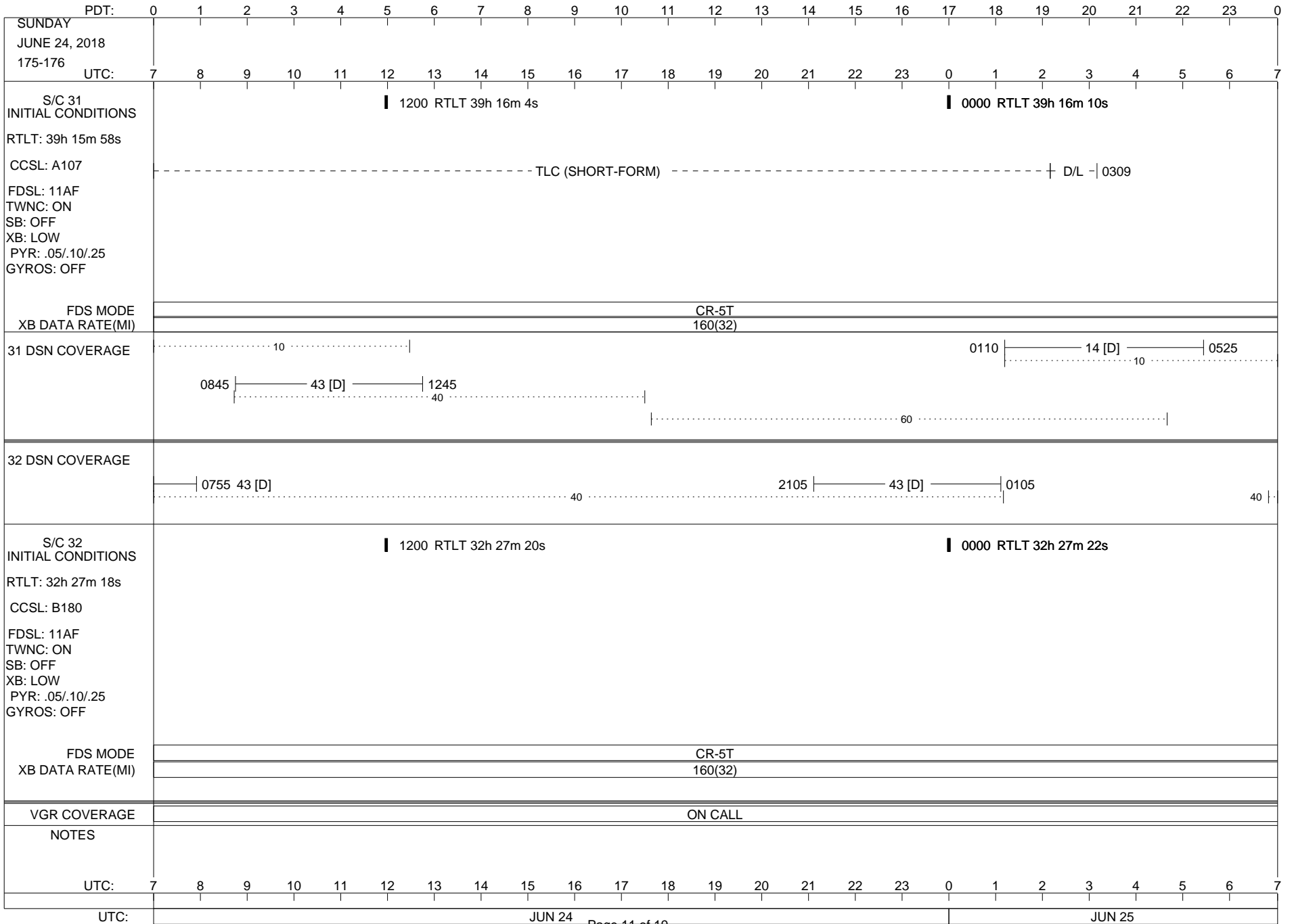
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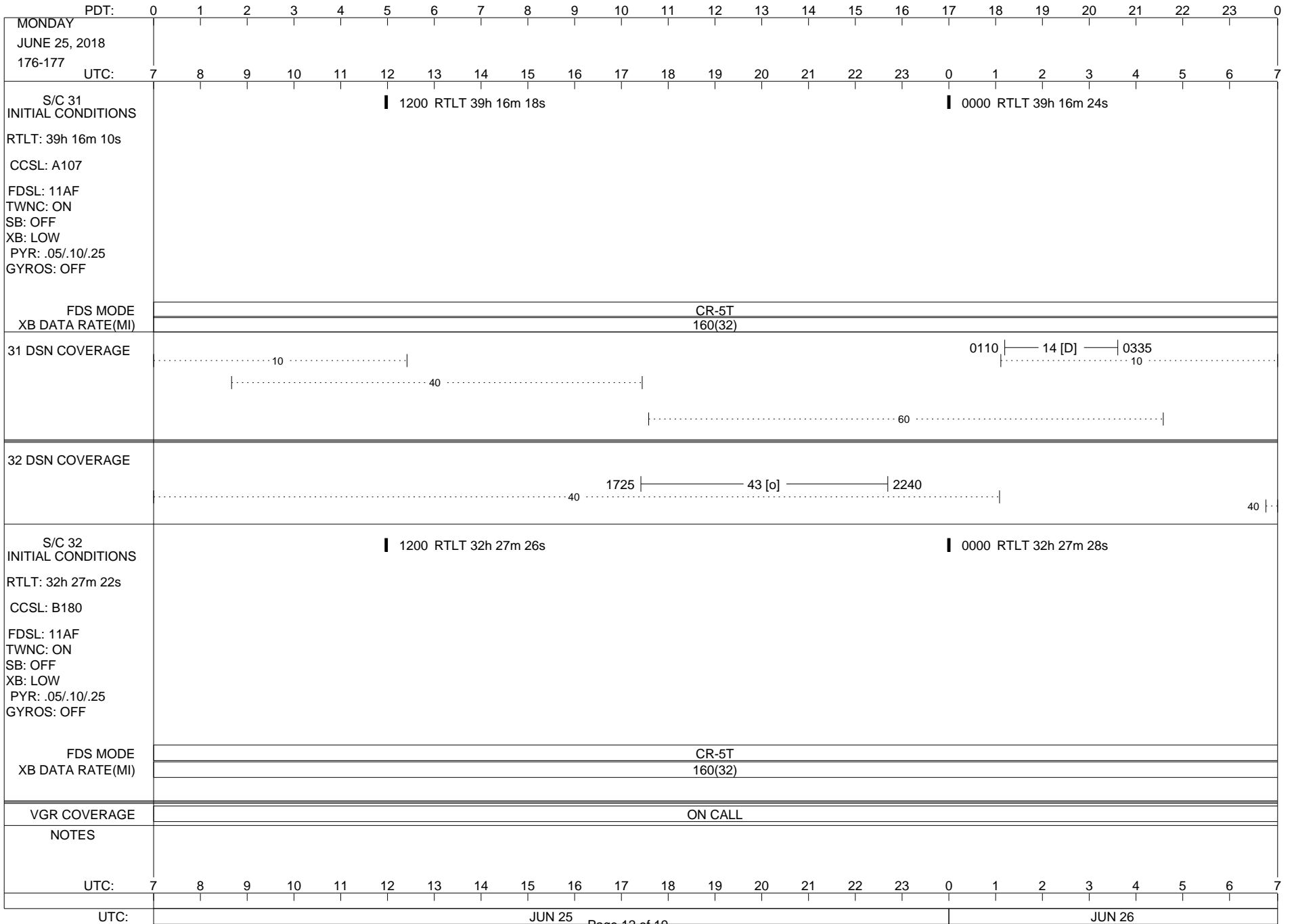
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UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7			
FRIDAY JUNE 22, 2018 173-174																												
S/C 31 INITIAL CONDITIONS RTLT: 39h 15m 30s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 15m 36s												0000 RTLT 39h 15m 44s															
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)															
31 DSN COVERAGE	<p>1155  -----  43 [D]  -----  1600</p> <p>2345  -----  43 [D]  -----  0115</p>																											
32 DSN COVERAGE	<p>43 [D]  -----  0705 - 1105</p> <p>2345  -----  43 [D]  -----  0115</p>																											
S/C 32 INITIAL CONDITIONS RTLT: 32h 27m 10s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 27m 12s												0000 RTLT 32h 27m 14s															
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:	JUN 22														JUN 23													

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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																	
SATURDAY JUNE 23, 2018 174-175																																											
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: 39h 15m 44s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/.25 GYROS: OFF		1200 RTLT 39h 15m 50s														0000 RTLT 39h 15m 58s																											
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)														CR-5T 160(32)																											
31 DSN COVERAGE		0810  -----  14 [T]  -----  1230  -----  10  -----  10  -----  40  -----  60  -----																																									
32 DSN COVERAGE		43 [D]  -----  0700 - 1100  -----  40  -----  2155  -----  43 [D]  -----  0110  -----  43 [D] 0655  -----  40  -----																																									
S/C 32 INITIAL CONDITIONS RTLTL: 32h 27m 14s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/.25 GYROS: OFF		1200 RTLT 32h 27m 16s														0000 RTLT 32h 27m 18s																											
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)																																									
VGR COVERAGE		ON CALL														VGR														ON CALL													
NOTES		[1] S/C 31=GS-4B @ 2220 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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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 26, 2018 177-178																									
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: 39h 16m 24s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 16m 32s												0000 RTLT 39h 16m 40s												
	1244   1245 PWS/RH																								
	↓ 1244 GS-4B 1245																								
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	0910   43 [D]   1330												0120   14 [D]   0335												
	10												10												
	40												60												
32 DSN COVERAGE	1410   35 [DAR]   1810												43 [D] 0645												
	1410   36 [DA]   1810												40												
S/C 32 INITIAL CONDITIONS RTLTL: 32h 27m 28s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 27m 30s												0000 RTLT 32h 27m 32s												
	1410   PLSCAL -   1553																								
	1410   --- MAGCAL ---   1713																								
	1410   ---- PESCAL ----   1730																								
FDS MODE	CR-5T																								
XB DATA RATE(MI)	160(32)																								
VGR COVERAGE	ON CALL																								
NOTES	[1] S/C 31=GS-4B @ 1244 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 26												JUN 27												

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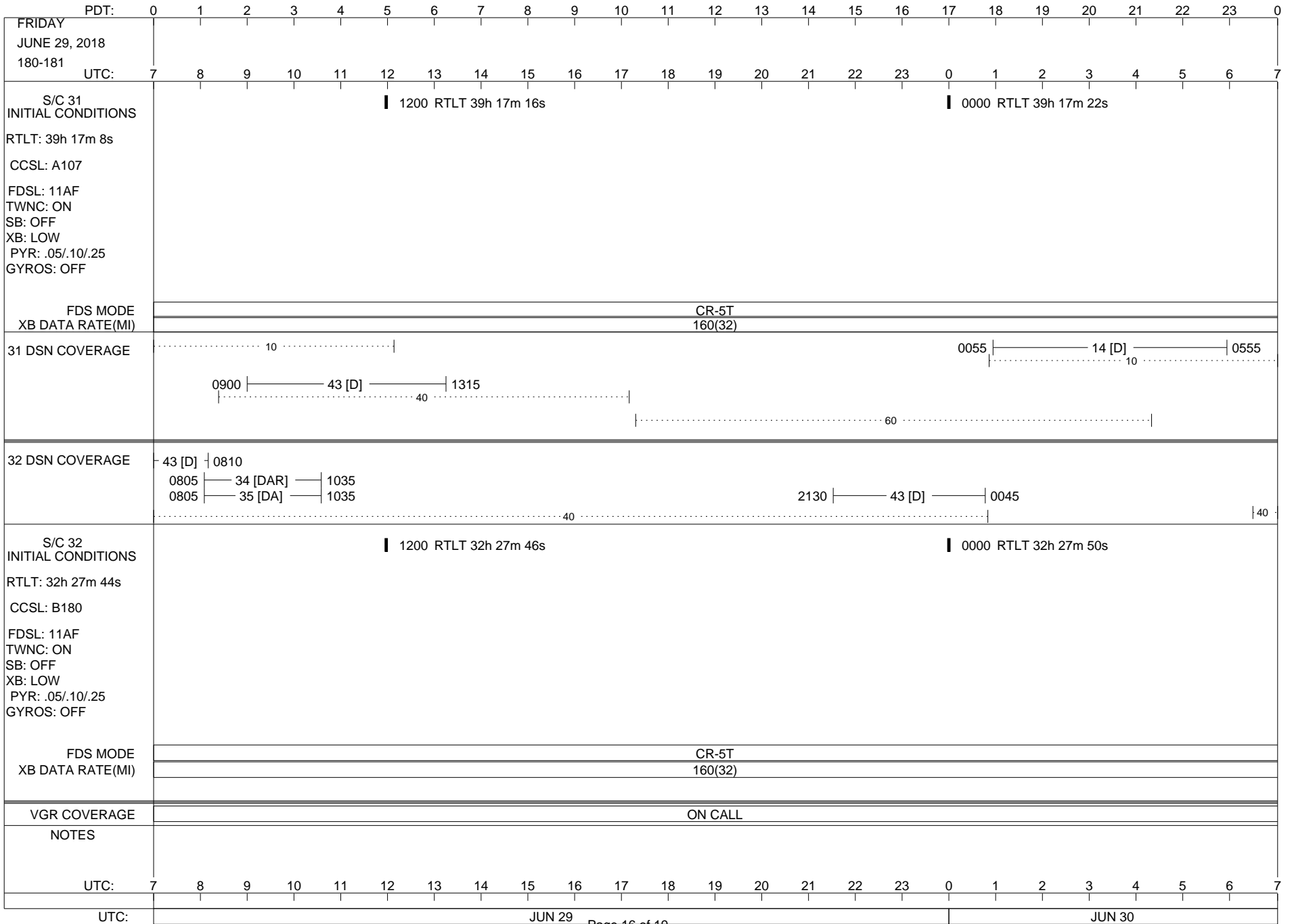
PDT:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	
WEDNESDAY JUNE 27, 2018 178-179																										
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
S/C 31 INITIAL CONDITIONS RTLT: 39h 16m 40s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 16m 46s												0000 RTLT 39h 16m 54s													
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
31 DSN COVERAGE	.....  10 .....												0100  ----- 14 [D] -----  0335													
	.....  40 .....												.....  10 .....													
													.....  60 .....													
32 DSN COVERAGE	----- 43 [D] -----  1205												.....  40 .....													
													.....  40 .....													
S/C 32 INITIAL CONDITIONS RTLT: 32h 27m 32s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 27m 36s												0000 RTLT 32h 27m 38s													
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:	JUN 27													JUN 28												

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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	
THURSDAY JUNE 28, 2018 179-180																										
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: 39h 16m 54s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 17m 0s												0000 RTLT 39h 17m 8s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)													
31 DSN COVERAGE	0845   43 [D]   1010												1055   43 [D]   1315													
32 DSN COVERAGE	1055   43 [D]   1315												43 [D] 0635													
S/C 32 INITIAL CONDITIONS RTLT: 32h 27m 38s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 27m 40s												0000 RTLT 32h 27m 44s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												ON CALL													
VGR COVERAGE	ON CALL												ON CALL													
NOTES	[1] S/C 31=GS-4B @ 1857 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 28													JUN 29												



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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
SATURDAY JUNE 30, 2018 181-182																									
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: 39h 17m 22s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 17m 30s												0000 RTLT 39h 17m 38s												
	1856   - - -   1939 TAPPOS												2157   2159 PWS/RH 2209   -   2238 TAPPOS												
													↓ 2157 GS-4B 2159												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	.....   .....40.....   .....60.....												0100  -----14 [D]-----  0505  .....10.....												
32 DSN COVERAGE	34 [DAR]   0720 - 0855   36 [DA]   0720 - 0855												2010  -----43 [B]-----  0030 43 [D] 0625    .....40.....												
S/C 32 INITIAL CONDITIONS RTLTL: 32h 27m 50s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 27m 52s												0000 RTLT 32h 27m 56s												
													▼ 2237 DUMMY (5 MIN BRACKETED 07:05)												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL												VGR						ON CALL						
NOTES	[1] S/C 31=GS-4B @ 2157 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						

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 JULY 1, 2018 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: 39h 17m 38s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 39h 17m 46s												█ 0000 RTLT 39h 17m 54s								
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
31 DSN COVERAGE	.....10.....												.....0205  ----- 14 [D] -----  0445 .....10.....													
	.....40.....												.....60.....													
32 DSN COVERAGE	----- 43 [D] -----  1100												.....2025  ----- 43 [D] -----  0040 .....40.....													
													43 [D] 0625  -----													
S/C 32 INITIAL CONDITIONS RTLT: 32h 27m 56s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 32h 27m 58s												█ 0000 RTLT 32h 28m 2s								
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:	JUL 01													JUL 02												

ISSUE DATE: 06/12/18 08:09

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		
MONDAY JULY 2, 2018 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 RTLT: 39h 17m 54s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <p>█ 1200 RTLT 39h 18m 2s</p> <p>▼ 1100 DUMMY (02:18)</p> </div>																										
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)													
31 DSN COVERAGE																											
32 DSN COVERAGE																											
S/C 32 INITIAL CONDITIONS RTLT: 32h 28m 2s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <p>█ 1200 RTLT 32h 28m 4s</p> </div>																										
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:	JUL 02													JUL 03													