

VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: July 25, 2018

For the Period: 07/26/18 to 08/13/18 (18/207 – 18/225)

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.	

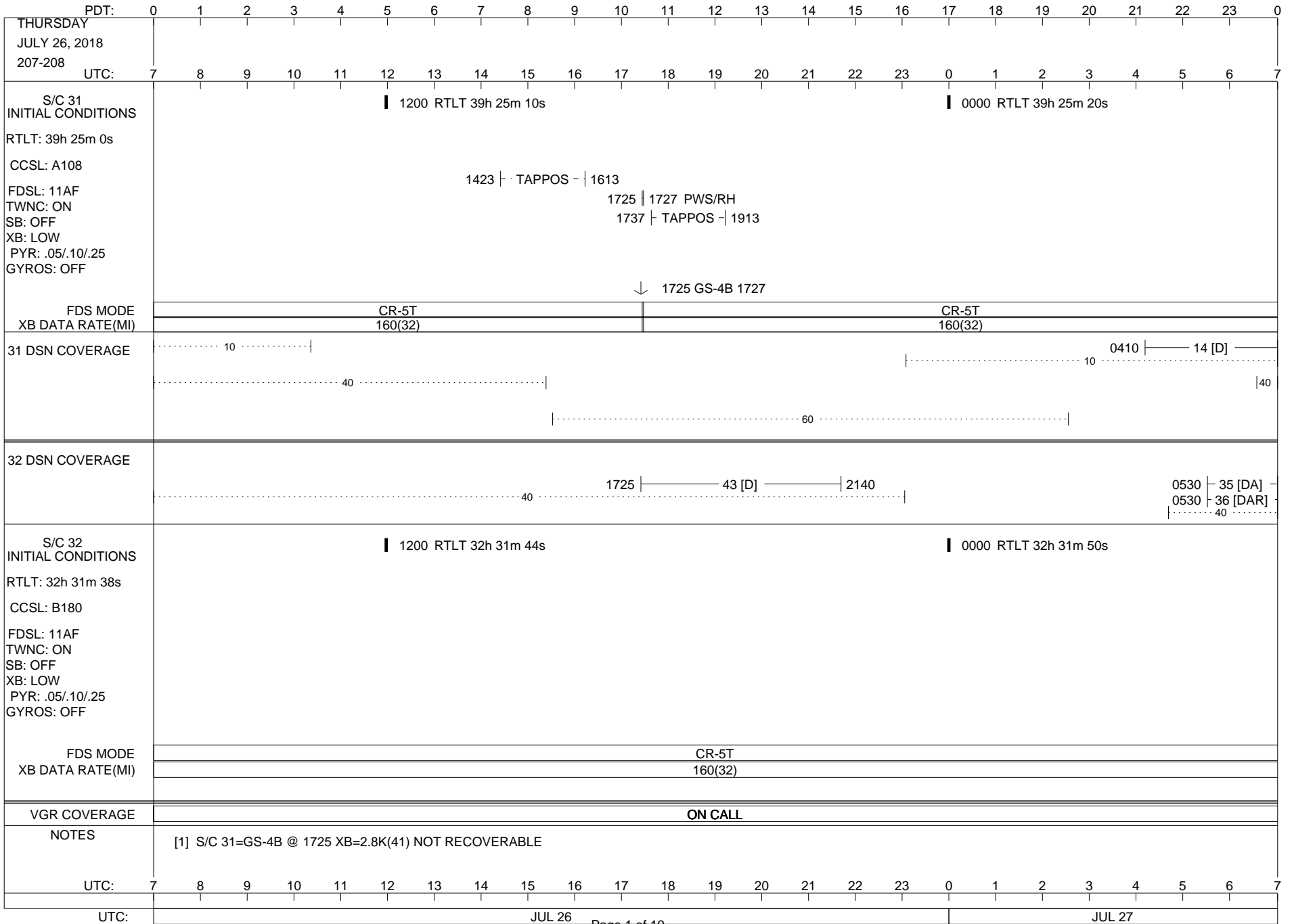
LEGEND:

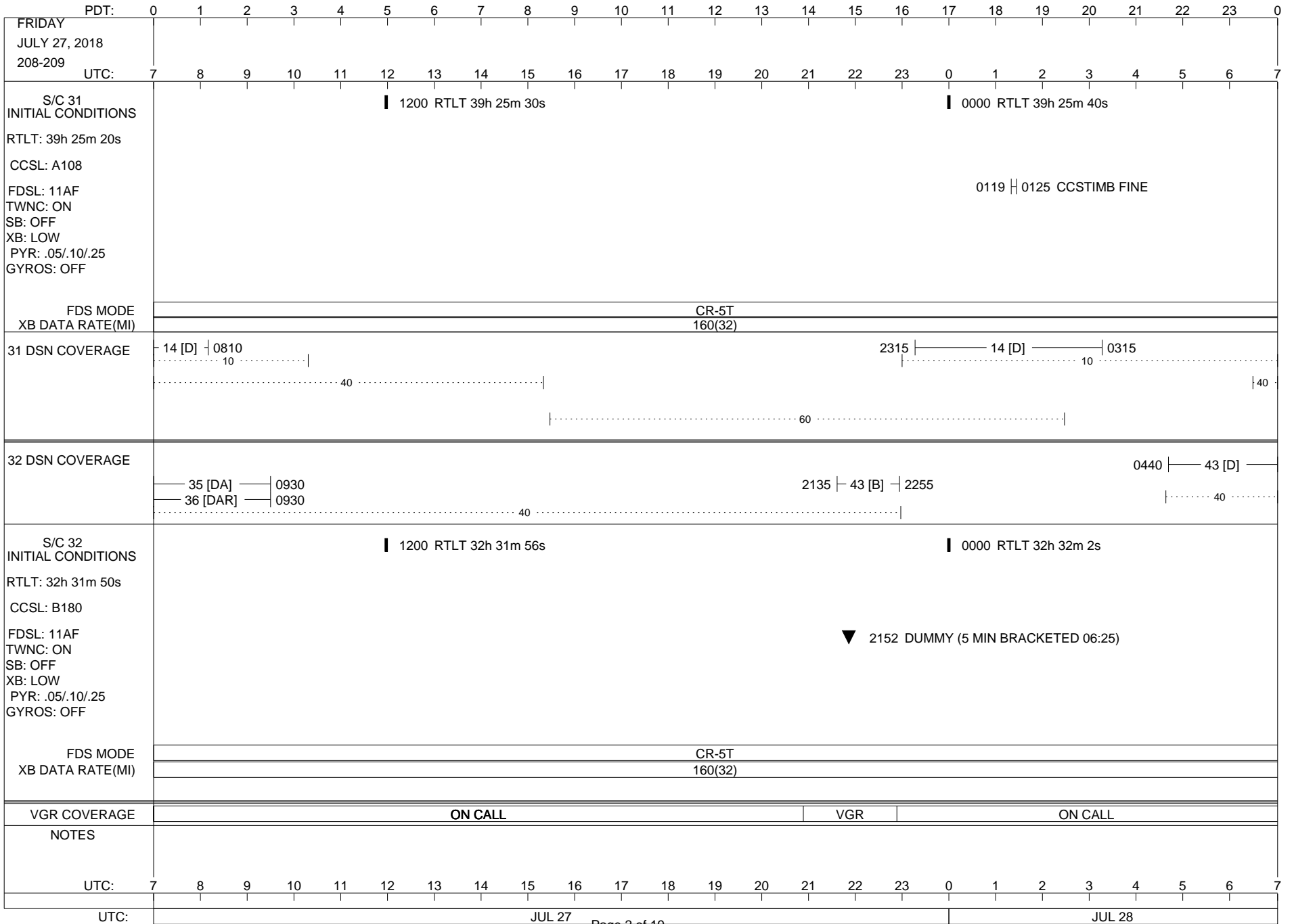
- ∇ = R/T Command (Last chance or Contingency)
- ▼ = R/T Command (Scheduled)
- * = Result of R/T Command
- n = (where n = 1,2,3 ..) Special Note, see bottom of page
- A = Arrayed station
- B = BLF
- D = Downlink only pass
- H = High Power Transmitter
- R = Array Reference Antenna
- T = TLC Uplink
- U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

Posted at http://voyager.jpl.nasa.gov/mission/soesfos/tracking_schedule.html

02/27/17

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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	
SATURDAY JULY 28, 2018 209-210	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 25m 40s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 25m 50s												0000 RTLT 39h 26m 0s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)													
31 DSN COVERAGE10.....									10.....										0135 |-----14 [D]-----	40.....	40.....|	
32 DSN COVERAGE	---43 [D]---|0840										|.....40.....|										0435 - 0645 |-----43 [D]-----		|.....40.....|			
S/C 32 INITIAL CONDITIONS RTLT: 32h 32m 2s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 32m 8s												0000 RTLT 32h 32m 14s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																									
VGR COVERAGE	ON CALL																									
NOTES	[1] S/C 31=GS-4B @ 2025 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 28												JUL 29													

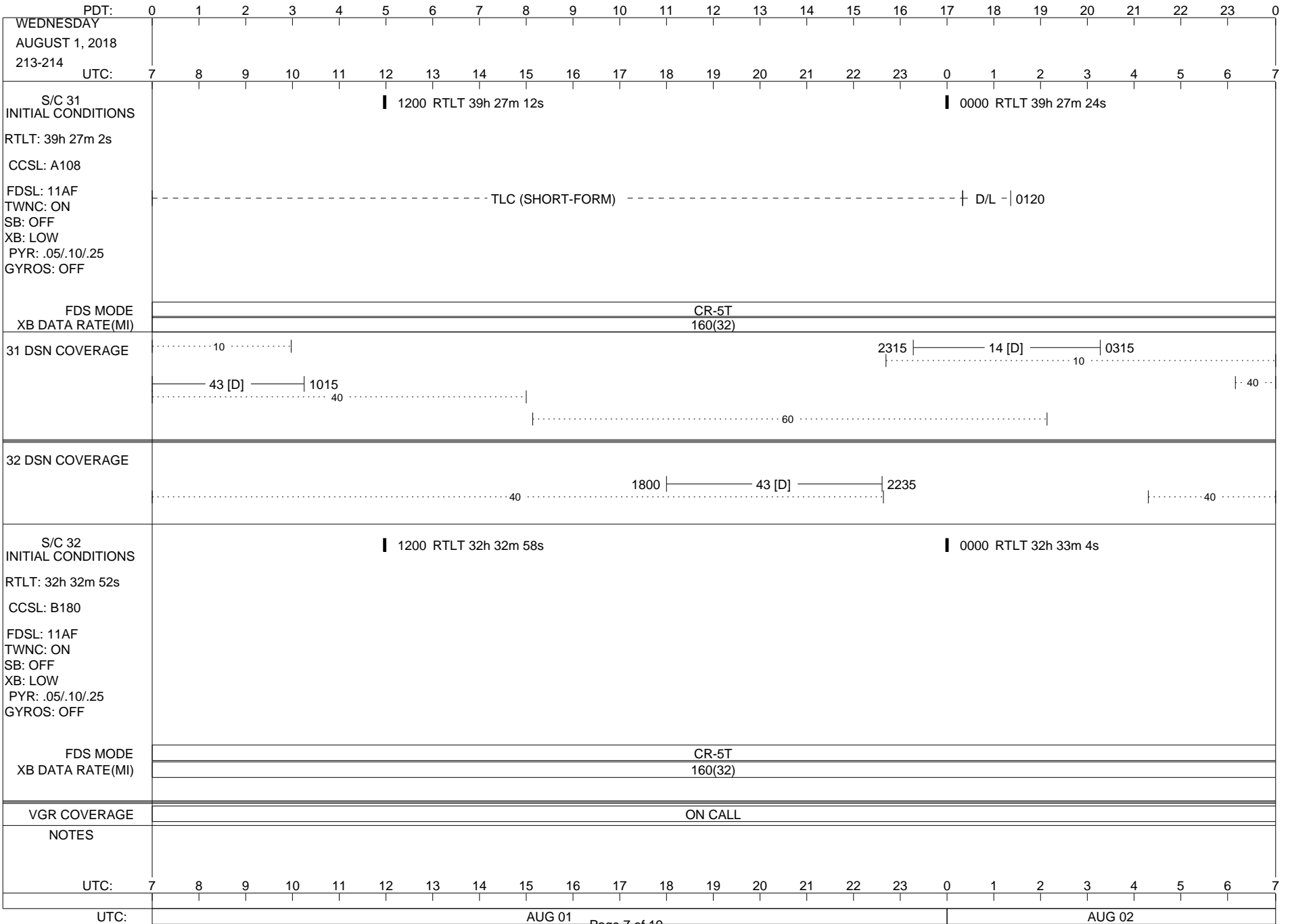
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SUNDAY JULY 29, 2018 210-211	UTC: 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
S/C 31 INITIAL CONDITIONS RTLT: 39h 26m 0s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	| 1200 RTLT 39h 26m 10s												| 0000 RTLT 39h 26m 22s													
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)													
31 DSN COVERAGE	| 0705 14 [D] .....| | ..... 40 .....| | ..... 60 .....|												2255 |----- 14 [D] -----| 0255 | ..... 10 .....| | ..... 40 .....|													
32 DSN COVERAGE	| ..... 40 .....|												1825 |----- 43 [D] -----| 2245 | ..... 40 .....|													
S/C 32 INITIAL CONDITIONS RTLT: 32h 32m 14s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	| 1200 RTLT 32h 32m 20s												| 0000 RTLT 32h 32m 26s													
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:	JUL 29													JUL 30												

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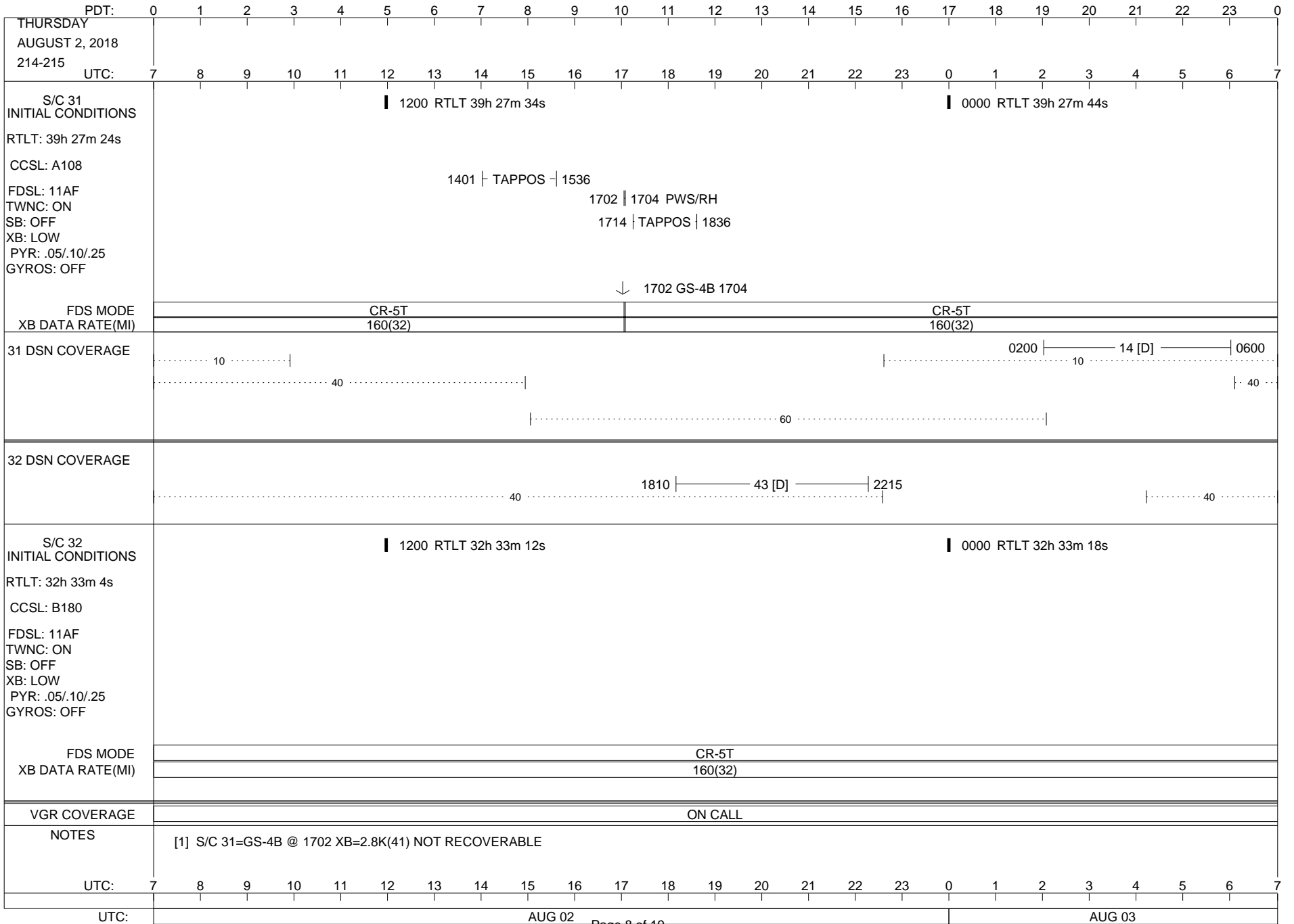
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MONDAY JULY 30, 2018 211-212																									
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLT: 39h 26m 22s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/.25 GYROS: OFF	| 1200 RTLT 39h 26m 32s												| 0000 RTLT 39h 26m 42s												
FDS MODE	CR-5T																								
XB DATA RATE(MI)	160(32)																								
31 DSN COVERAGE	..... 10 .....|												2330 |—— 14 [D] ——| 0150											
	..... 40 .....|												|..... 10											
	|..... 60 .....|												43 [T] 0620 |—— 40 ..											
32 DSN COVERAGE	..... 40 .....|												1740 |—— 43 [D] ——| 2140											
	|..... 40 .....												|..... 40											
S/C 32 INITIAL CONDITIONS RTLT: 32h 32m 26s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/.25 GYROS: OFF	| 1200 RTLT 32h 32m 32s												| 0000 RTLT 32h 32m 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:	JUL 30												JUL 31												

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 31, 2018 212-213																													
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 26m 42s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		█ 1200 RTLTL 39h 26m 52s														█ 0000 RTLTL 39h 27m 2s													
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)														CR-5T 160(32)													
31 DSN COVERAGE		..... 10 .....| ..... 10 —— 43 [T] ——| 0900 40 43 [D] 0615 |—— ..... 40 .....| ..... 60 .....| ..... 40																											
32 DSN COVERAGE		1000 |—— 43 [o] ——| 1240 40 2100 |—— 43 [D] ——| 2240 40																											
S/C 32 INITIAL CONDITIONS RTLTL: 32h 32m 38s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		█ 1200 RTLTL 32h 32m 46s														█ 0000 RTLTL 32h 32m 52s													
FDS MODE XB DATA RATE(MI)																CR-5T 160(32)													
VGR COVERAGE		VGR														ON CALL													
NOTES		[1] S/C 31=GS-4B @ 1049 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 31														AUG 01													

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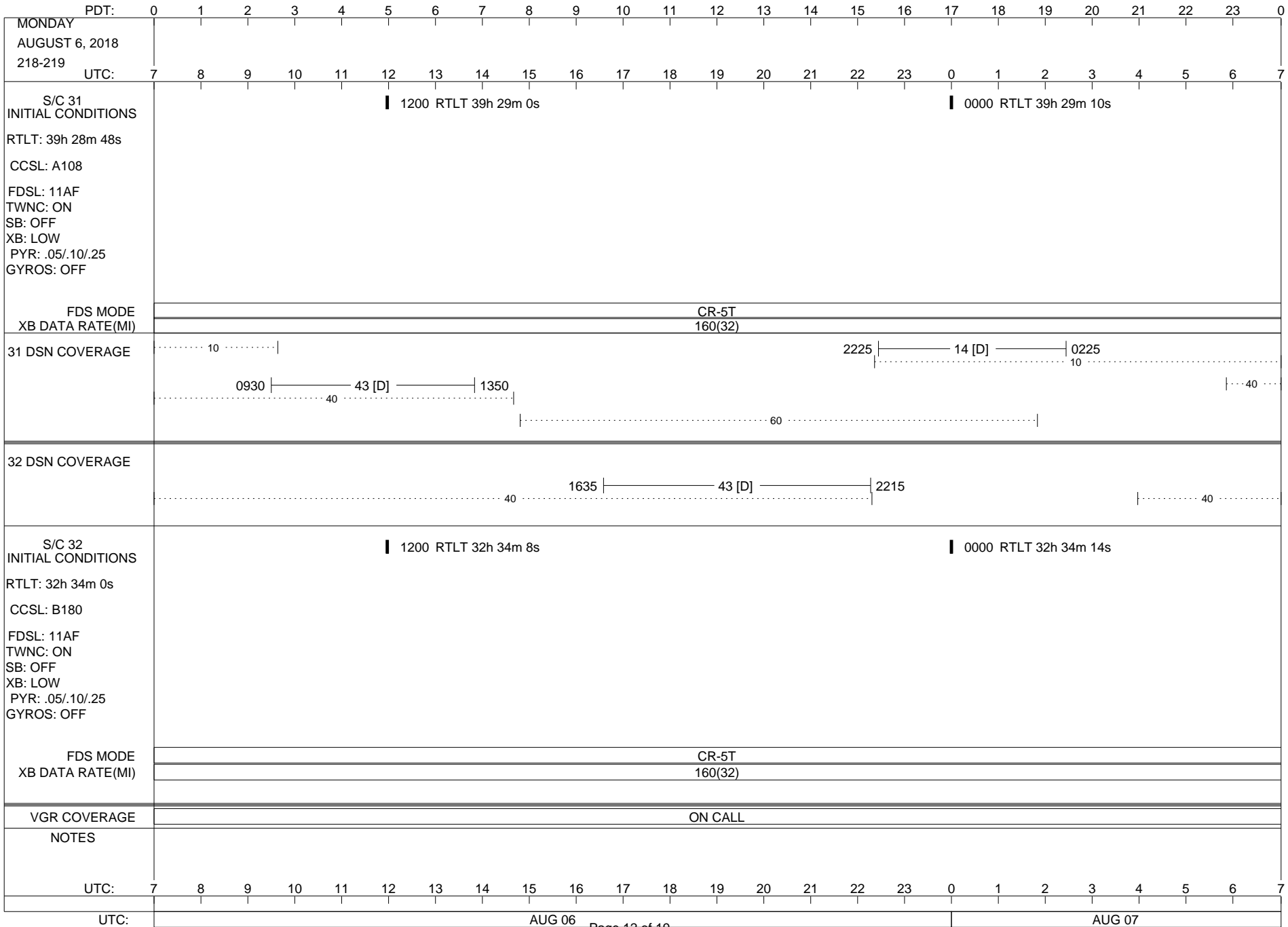
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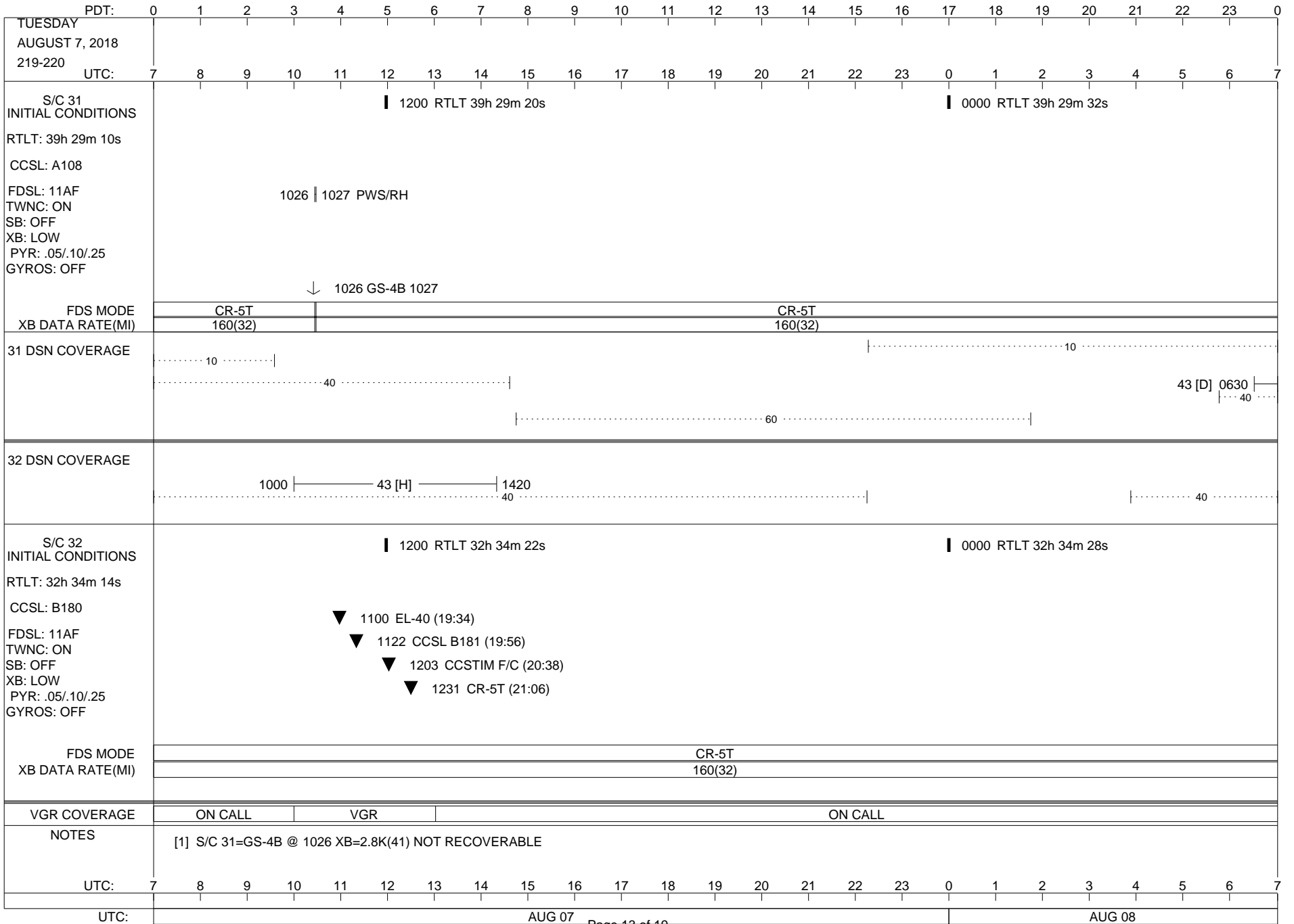
PDT:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0			
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7			
FRIDAY AUGUST 3, 2018 215-216																												
S/C 31 INITIAL CONDITIONS RTLT: 39h 27m 44s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 27m 56s														0000 RTLT 39h 28m 6s GYROS BC ON 0211 ↓ BAY 1 HTR OFF 0211 ↓ GYRO FAULT TEST 0221 ↓ AAI 0311 ↓ MAGROL 0314 |-----| 0426 RAI 0426 ↓ GYROS OFF 0431 ↓ CRU 0432 ↓ BAY 1 HTR ON 0440 ↓ ↓ 0214 EL-40 0215													
FDS MODE	CR-5T														CR-5T													
XB DATA RATE(MI)	160(32)														160(32)													
31 DSN COVERAGE																												
32 DSN COVERAGE																												
S/C 32 INITIAL CONDITIONS RTLT: 32h 33m 18s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 33m 26s														0000 RTLT 32h 33m 32s													
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 - D/L AGC VARIATIONS EXPECTED DURING MAGROL (0314-0426)																											
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:	AUG 03														AUG 04													

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 AUGUST 4, 2018 216-217	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 28m 6s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 28m 16s												0000 RTLT 39h 28m 26s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	10												0330 | 14 | 10												
	40												1955 | 54 [DAR] | 2150 1955 | 55 [DA] | 2150												
													60												
32 DSN COVERAGE	40												1630 | 43 [D] | 2225												
													0405 | 43 [D] | 0605												
S/C 32 INITIAL CONDITIONS RTLTL: 32h 33m 32s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 33m 38s												0000 RTLT 32h 33m 46s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE	ON CALL																							VGR	
NOTES	[1] S/C 31=GS-4B @ 2003 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:	AUG 04												AUG 05												

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 AUGUST 5, 2018 217-218	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 28m 26s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	| 1200 RTLT 39h 28m 38s												| 0000 RTLT 39h 28m 48s													
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)													
31 DSN COVERAGE	| 0715 14 | ..... 10 ..... | | ..... 40 ..... | | ..... 60 ..... |												| ..... 10 ..... | | ..... 40 ..... |													
32 DSN COVERAGE	| ..... 40 ..... |												| 1700 | ..... 43 [D] ..... | 2220 | ..... 40 ..... |													
S/C 32 INITIAL CONDITIONS RTLT: 32h 33m 46s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	| 1200 RTLT 32h 33m 52s												| 0000 RTLT 32h 34m 0s													
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)													
VGR COVERAGE	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:	AUG 05												AUG 06													



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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		
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		
WEDNESDAY AUGUST 8, 2018 220-221																											
S/C 31 INITIAL CONDITIONS RTLT: 39h 29m 32s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 29m 42s												0000 RTLT 39h 29m 54s														
0747 | -- TAPPOS -- | 1005	↓ 2351 BAY 1 HTR OFF ↓ 2355 X/B HI POWER ↓ 0014 YAW=.05															0024 - 0642 | ----- PLAYBACK ----- | YAW=.10 0652 ↓											
FDS MODE	CR-5T												PB-14														
XB DATA RATE(MI)	160(32)												1.4K(39)														
31 DSN COVERAGE	..... 10 ..... | ----- 43 [D] ----- | 1100 40 ..... | ..... 60 ..... | ..... 40												2325 |----- 14 [DA] ----- 2325 |----- 24 [DA] ----- 2325 |----- 25 [DAR] ----- 10 ..... | ..... 40														
32 DSN COVERAGE	..... 40 1745 |----- 43 [D] ----- | 2205 40																										
S/C 32 INITIAL CONDITIONS RTLT: 32h 34m 28s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 34m 36s												0000 RTLT 32h 34m 44s														
2009 * | 2013 B181 CHKSUM	2038 * | 2045 CCSTIM FINE															2056 * | 2059 COARSE											
EL-40 1935 ↓	↓ 2106 CR-5T																										
FDS MODE	CR-5T												EL-40						CR-5T								
XB DATA RATE(MI)	160(32)												40(30)						160(32)								
VGR COVERAGE	ON CALL												VGR			ON CALL			VGR								
NOTES	[1] S/C 32=EL-40 @ 1935 XB=40(30)												[3] S/C 31=PB-14 @ 0024 XB=1.4K(39)														
	[2] S/C 32=CR-5T @ 2106 XB=160(32)												[4] S/C 31=CR-5T @ 0642 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:	AUG 08															AUG 09											

ISSUE DATE: 07/25/18 11:32

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			
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			
THURSDAY AUGUST 9, 2018 221-222																												
S/C 31 INITIAL CONDITIONS RTLT: 39h 29m 54s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 30m 4s												0000 RTLT 39h 30m 16s															
FDS MODE															CR-5T													
XB DATA RATE(MI)															160(32)													
31 DSN COVERAGE																												
32 DSN COVERAGE																												
S/C 32 INITIAL CONDITIONS RTLT: 32h 34m 44s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 34m 50s												0000 RTLT 32h 34m 58s															
FDS MODE															CR-5T													
XB DATA RATE(MI)															160(32)													
VGR COVERAGE	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:	AUG 09														AUG 10													

ISSUE DATE: 07/25/18 11:32

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 AUGUST 10, 2018 222-223																										
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 30m 16s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 39h 30m 26s												█ 0000 RTLT 39h 30m 38s								
FDS MODE XB DATA RATE(MI)																										
31 DSN COVERAGE																										
32 DSN COVERAGE																										
S/C 32 INITIAL CONDITIONS RTLT: 32h 34m 58s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 32h 35m 6s												█ 0000 RTLT 32h 35m 14s								
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:																										

ISSUE DATE: 07/25/18 11:32

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 AUGUST 11, 2018 223-224	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 30m 38s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	| 1200 RTLT 39h 30m 48s												| 0000 RTLT 39h 31m 0s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	.....10 .....|												|.....10 .....0410 |-----14 [D]-----											
	.....40 .....|												|.....40											
	|.....60 .....												|.....60											
32 DSN COVERAGE	|-----43 [H,o]-----|0715- 1115												|.....40											
	|.....40 .....												|.....40											
S/C 32 INITIAL CONDITIONS RTLT: 32h 35m 14s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	| 1200 RTLT 32h 35m 22s												| 0000 RTLT 32h 35m 28s												
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:	AUG 11												AUG 12												

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 AUGUST 12, 2018 224-225	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 31m 0s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 31m 10s												0000 RTLT 39h 31m 22s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
31 DSN COVERAGE	14 [D] 0910 10 40												2310 14 [D] 0330 10 60 40												
32 DSN COVERAGE	40 1545 43 [D] 2145 40												40												
S/C 32 INITIAL CONDITIONS RTLT: 32h 35m 28s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 35m 36s												0000 RTLT 32h 35m 44s												
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:	AUG 12												AUG 13												

ISSUE DATE: 07/25/18 11:32

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 AUGUST 13, 2018 225-226																											
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 31m 22s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	| 1200 RTLT 39h 31m 34s																										
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
31 DSN COVERAGE	..... 10 .....| ..... 40 .....|																										
32 DSN COVERAGE	..... 1455 |----- 43 [D] -----| 2140 40 .....|																										
S/C 32 INITIAL CONDITIONS RTLT: 32h 35m 44s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	| 1200 RTLT 32h 35m 52s																										
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:	AUG 13													AUG 14													