

VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: July 11, 2018

For the Period: 07/12/18 to 07/30/18 (18/193 – 18/211)

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

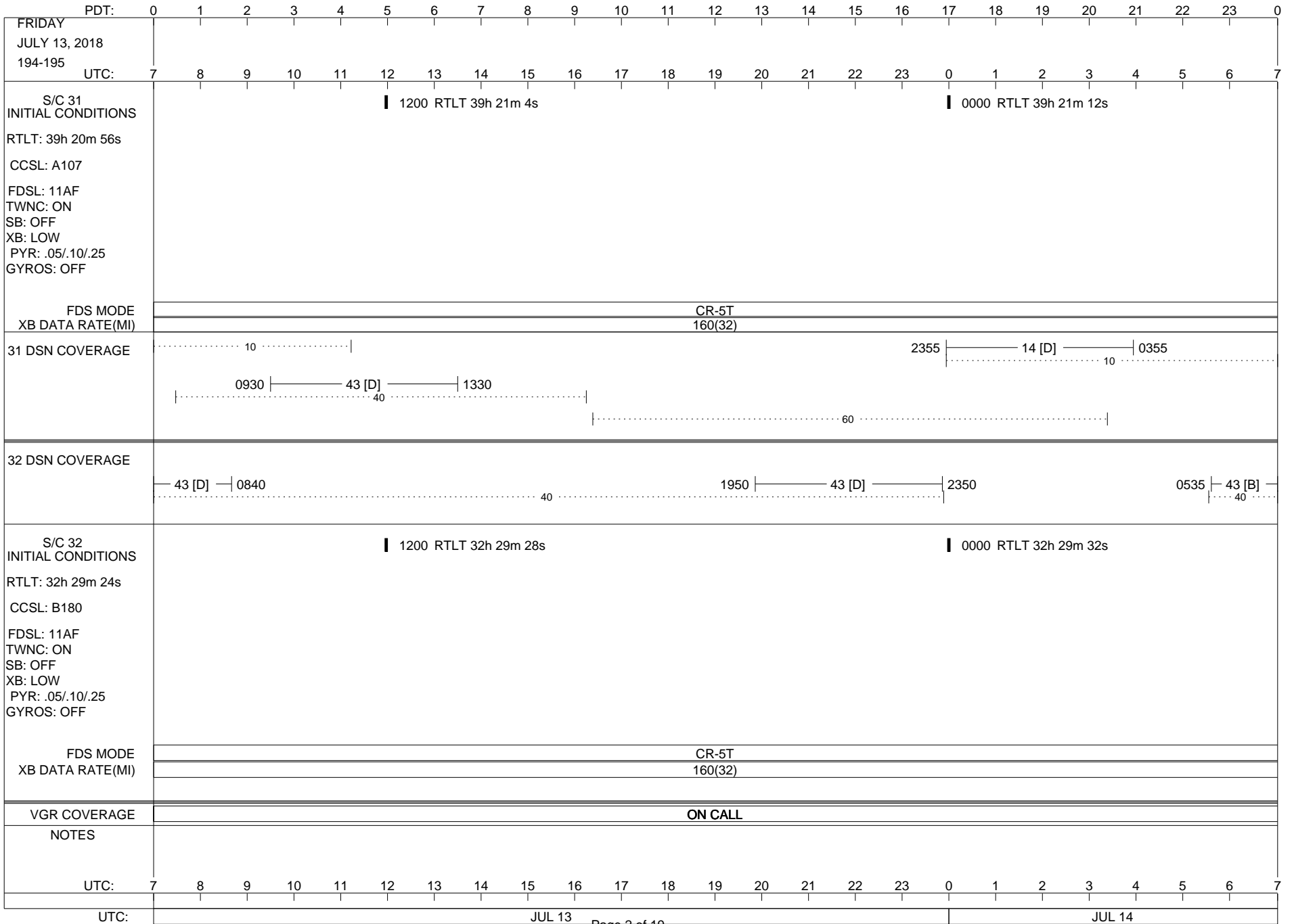
Posted at http://voyager.jpl.nasa.gov/mission/soesfos/tracking_schedule.html

02/27/17

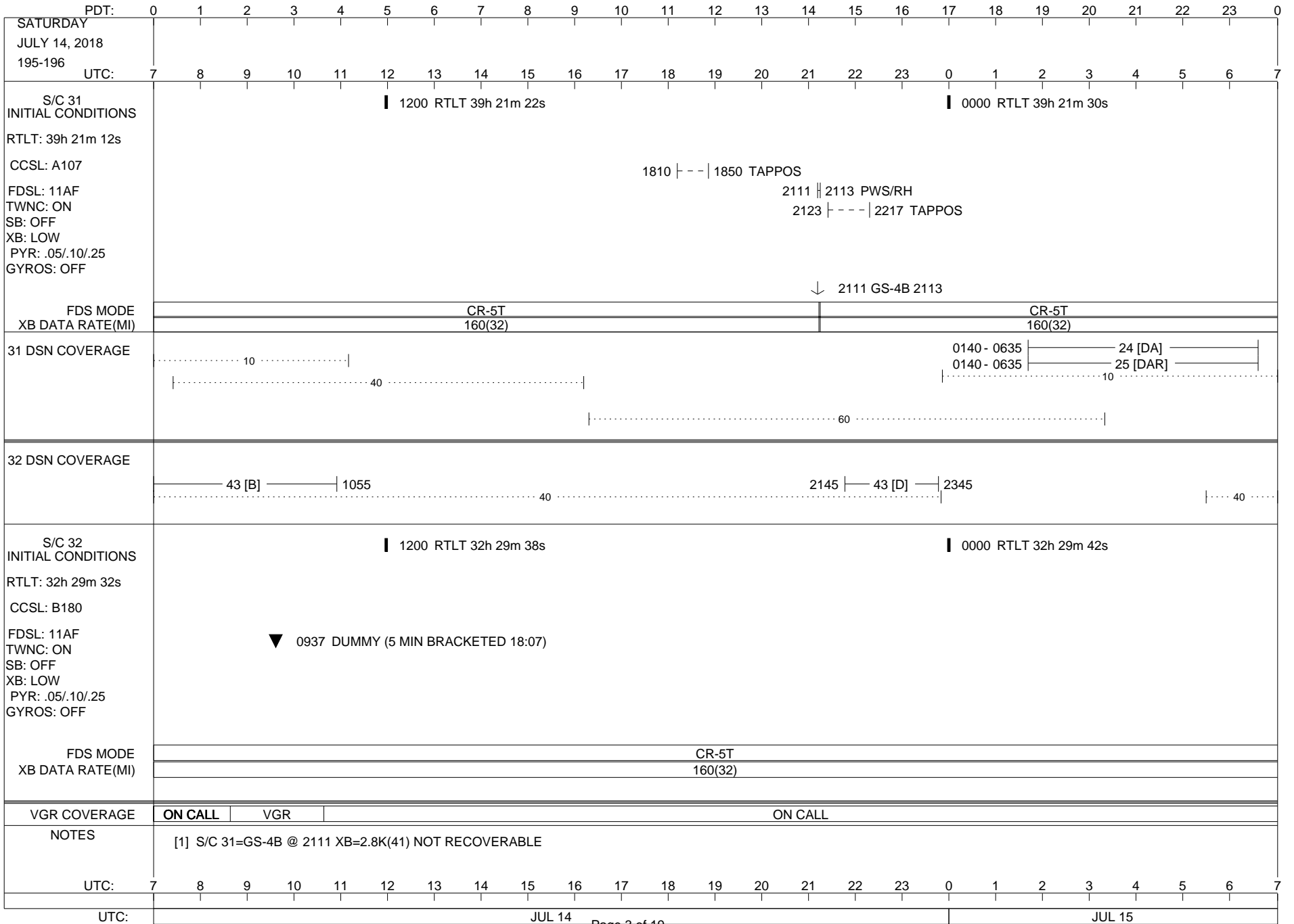
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THURSDAY JULY 12, 2018 193-194	UTC: 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLT: 39h 20m 38s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 20m 46s												0000 RTLT 39h 20m 56s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	.....10.....|												|.....10.....											
	|.....40.....|																								
	|.....60.....|																								
32 DSN COVERAGE	43 [D] | 0955												0540 | 43 [D] |												
	.....40.....|												|.....40.....											
S/C 32 INITIAL CONDITIONS RTLT: 32h 29m 14s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 29m 20s												0000 RTLT 32h 29m 24s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE	ON CALL																								
NOTES	[1] S/C 31=GS-4B @ 1811 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 12												JUL 13												

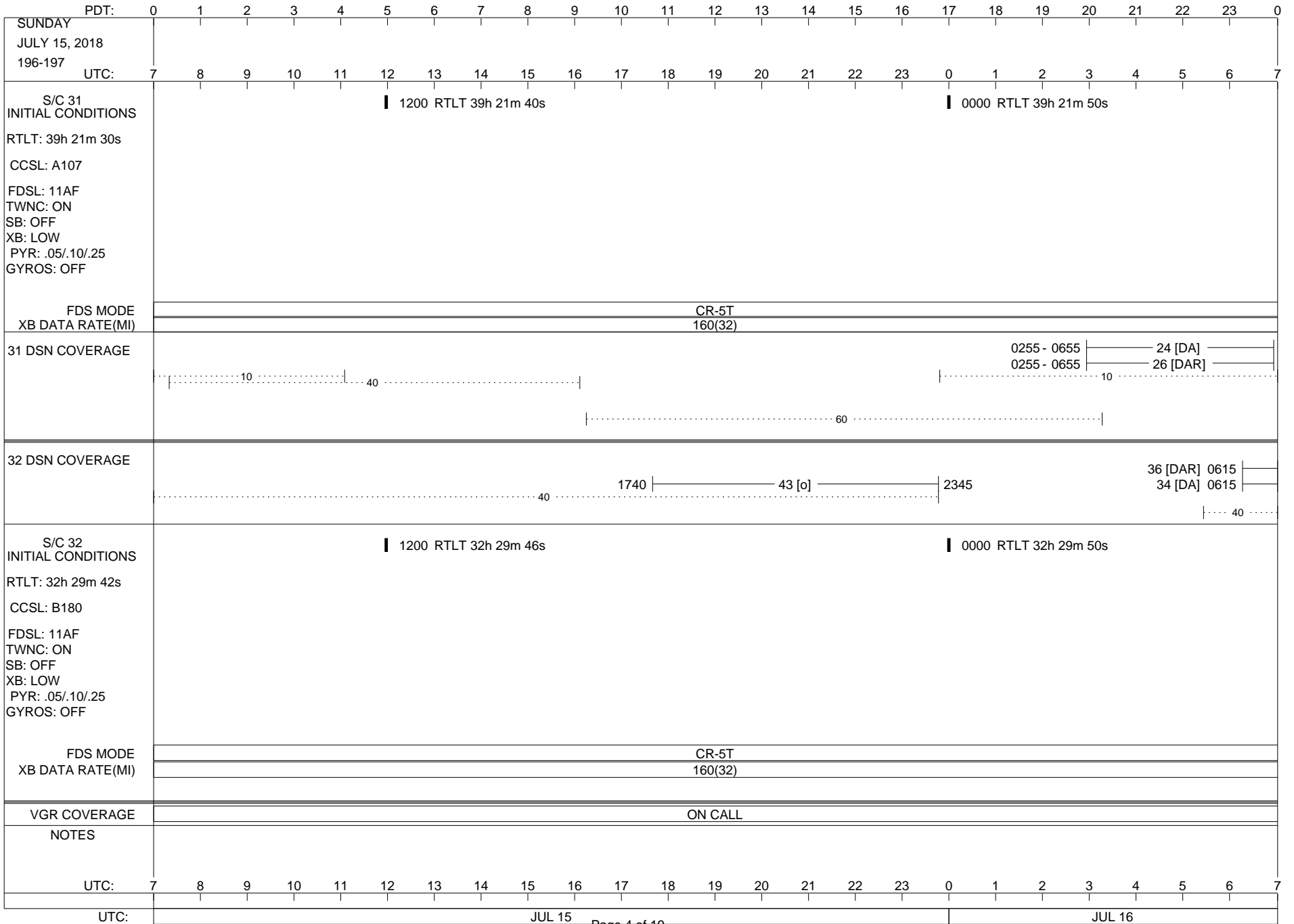
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MONDAY JULY 16, 2018 197-198																										
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S/C 31 INITIAL CONDITIONS RTLT: 39h 21m 50s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 39h 21m 58s												█ 0000 RTLT 39h 22m 8s								
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
31 DSN COVERAGE	..... 10 .....												|..... 10											
	|..... 10 .....												|..... 10											
	|..... 40 .....												|..... 40											
	|..... 40 .....												|..... 60											
32 DSN COVERAGE	..... 36 [DAR] 1015												..... 43 [D] 0630 |													
	..... 34 [DA] 1015												|..... 40											
	|..... 40 .....												|..... 40											
S/C 32 INITIAL CONDITIONS RTLT: 32h 29m 50s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 32h 29m 56s												█ 0000 RTLT 32h 30m 0s								
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 16													JUL 17												

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 17, 2018																										
198-199																										
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
 1200 RTLT 39h 22m 16s
 0000 RTLT 39h 22m 26s
 RTLTL: 39h 22m 8s
 1135 | 1136 PWS/RH
 CCSL: A108
 ▼ 1250 DUMMY (04:12)
 FDSL: 11AF
 TWNC: ON
 U/L 1315 | - | - - - - - TLC (SHORT-FORM) - - - - -
 SB: OFF
 XB: LOW
 PYR: .05/.10/.25
 GYROS: OFF
 0326-0629 | - - - - - MAGCAL - - - - -
 0326-0646 | - - - - - PESCAL - - - - -
 ↓ 1135 GS-4B 1136

FDS MODE	CR-5T	CR-5T
XB DATA RATE(MI)	160(32)	160(32)

31 DSN COVERAGE
 10 |
 0125-0700 | 14 [D]
 10
 1210 | 43 [T] | 1555
 40 |
 60 |

32 DSN COVERAGE
 43 [D] | 1105
 40
 2155 | 43 [D] | 2335
 40

S/C 32
 INITIAL CONDITIONS
 1200 RTLT 32h 30m 6s
 0000 RTLT 32h 30m 10s
 RTLTL: 32h 30m 0s
 CCSL: B180
 FDSL: 11AF
 TWNC: ON
 SB: OFF
 XB: LOW
 PYR: .05/.10/.25
 GYROS: OFF

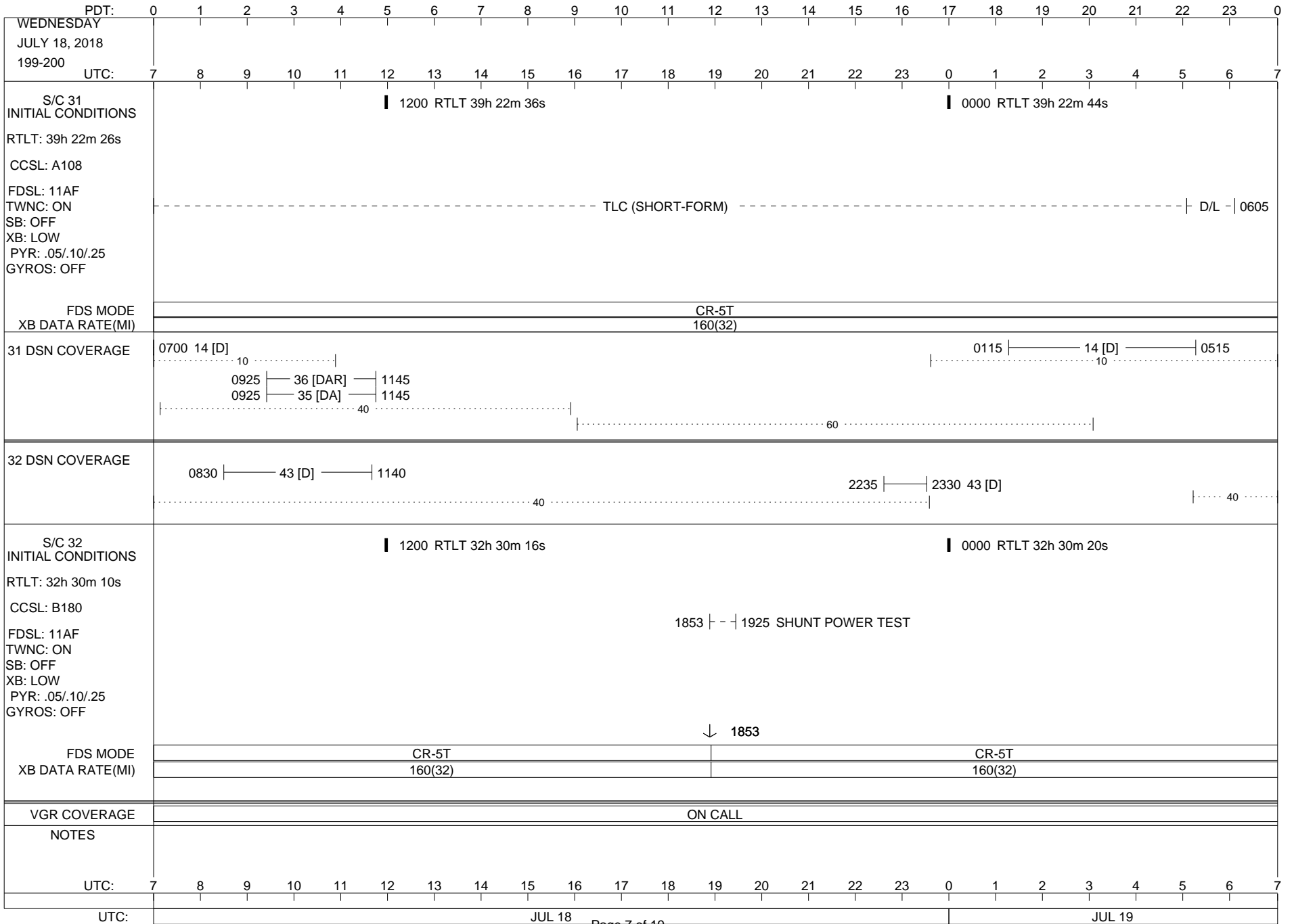
FDS MODE	CR-5T
XB DATA RATE(MI)	160(32)

VGR COVERAGE	ON CALL	VGR	ON CALL
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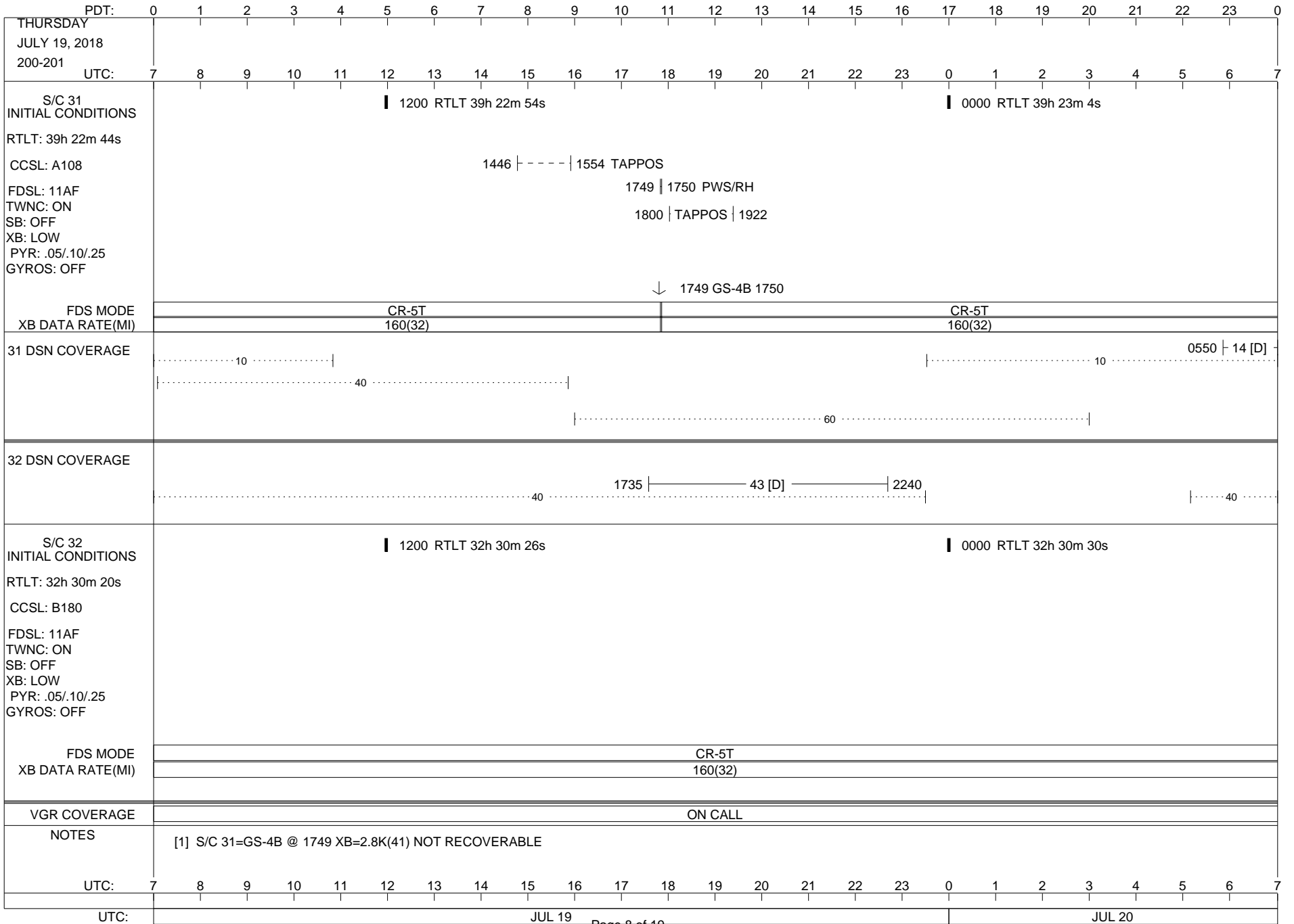
NOTES
 [1] S/C 31=GS-4B @ 1135 XB=2.8K(41) NOT RECOVERABLE

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
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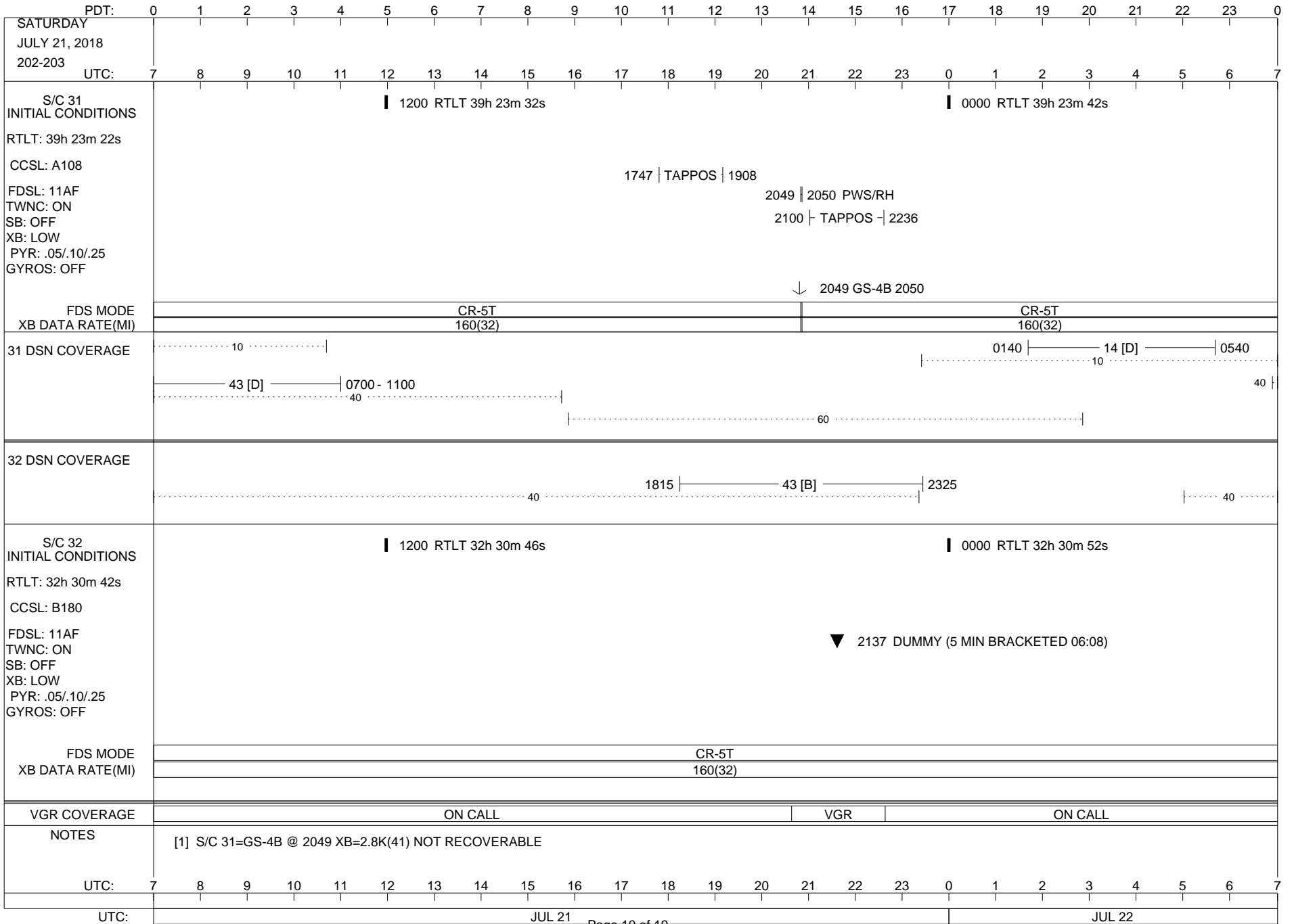


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FRIDAY JULY 20, 2018 201-202																												
S/C 31 INITIAL CONDITIONS RTLTL: 39h 23m 4s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 23m 12s												0000 RTLT 39h 23m 22s															
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)															
31 DSN COVERAGE	14 [D] 1045												10															
	10												40															
													43 [D] 0700 40															
													60															
32 DSN COVERAGE													1845 43 [D] 2325															
	40												40															
S/C 32 INITIAL CONDITIONS RTLTL: 32h 30m 30s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 30m 36s												0000 RTLT 32h 30m 42s															
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 20														JUL 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
SUNDAY JULY 22, 2018 203-204																									
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 23m 42s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	| 1200 RTLT 39h 23m 52s												| 0000 RTLT 39h 24m 0s												
FDS MODE	CR-5T																								
XB DATA RATE(MI)	160(32)																								
31 DSN COVERAGE	.....10 .....|												2320 |----- 14 [D] -----| 0500											
	.....40 .....|												.....10 .....|												
	.....40 .....|												.....40 |												
	.....60 .....|												.....|
32 DSN COVERAGE	1000 |----- 43 [D] -----| 1510												2140 |--- 43 [D] ---| 2315												
	.....40 .....|												.....|
	.....40 .....|												.....40 .....|												
S/C 32 INITIAL CONDITIONS RTLT: 32h 30m 52s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	| 1200 RTLT 32h 30m 58s												| 0000 RTLT 32h 31m 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 22												JUL 23												

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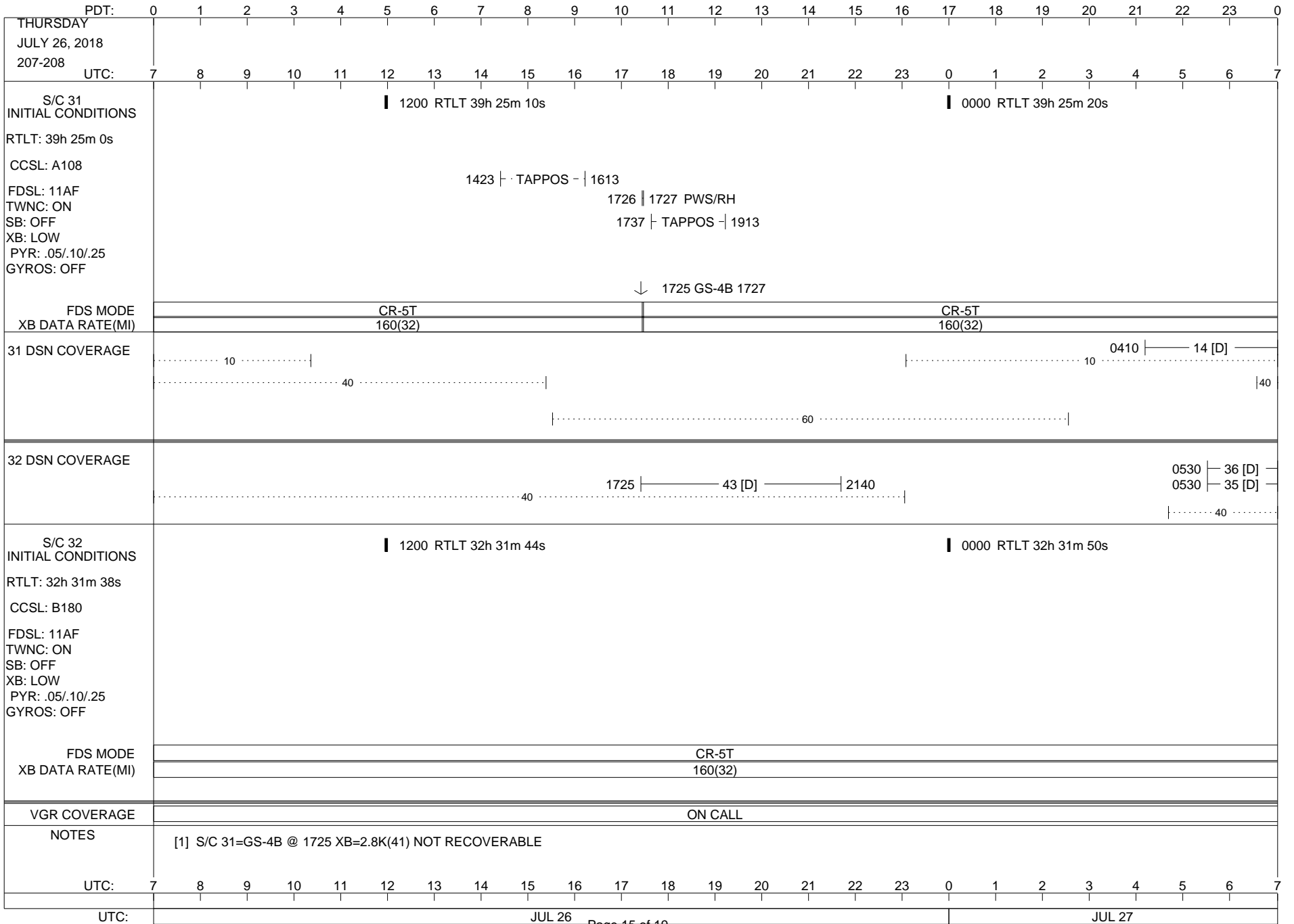
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UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7		
S/C 31 INITIAL CONDITIONS RTLT: 39h 24m 0s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 39h 24m 10s												█ 0000 RTLT 39h 24m 20s									
FDS MODE													CR-5T														
XB DATA RATE(MI)													160(32)														
31 DSN COVERAGE	..... 10 .....										|..... 10										43 [T] 0645				
	..... 40 .....										|..... 60										40				
32 DSN COVERAGE	—— 43 [o] —— | 0930										|..... 40 .....										|..... 40				
S/C 32 INITIAL CONDITIONS RTLT: 32h 31m 2s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 32h 31m 8s												█ 0000 RTLT 32h 31m 14s									
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 23													JUL 24													

ISSUE DATE: 07/11/18 09:42

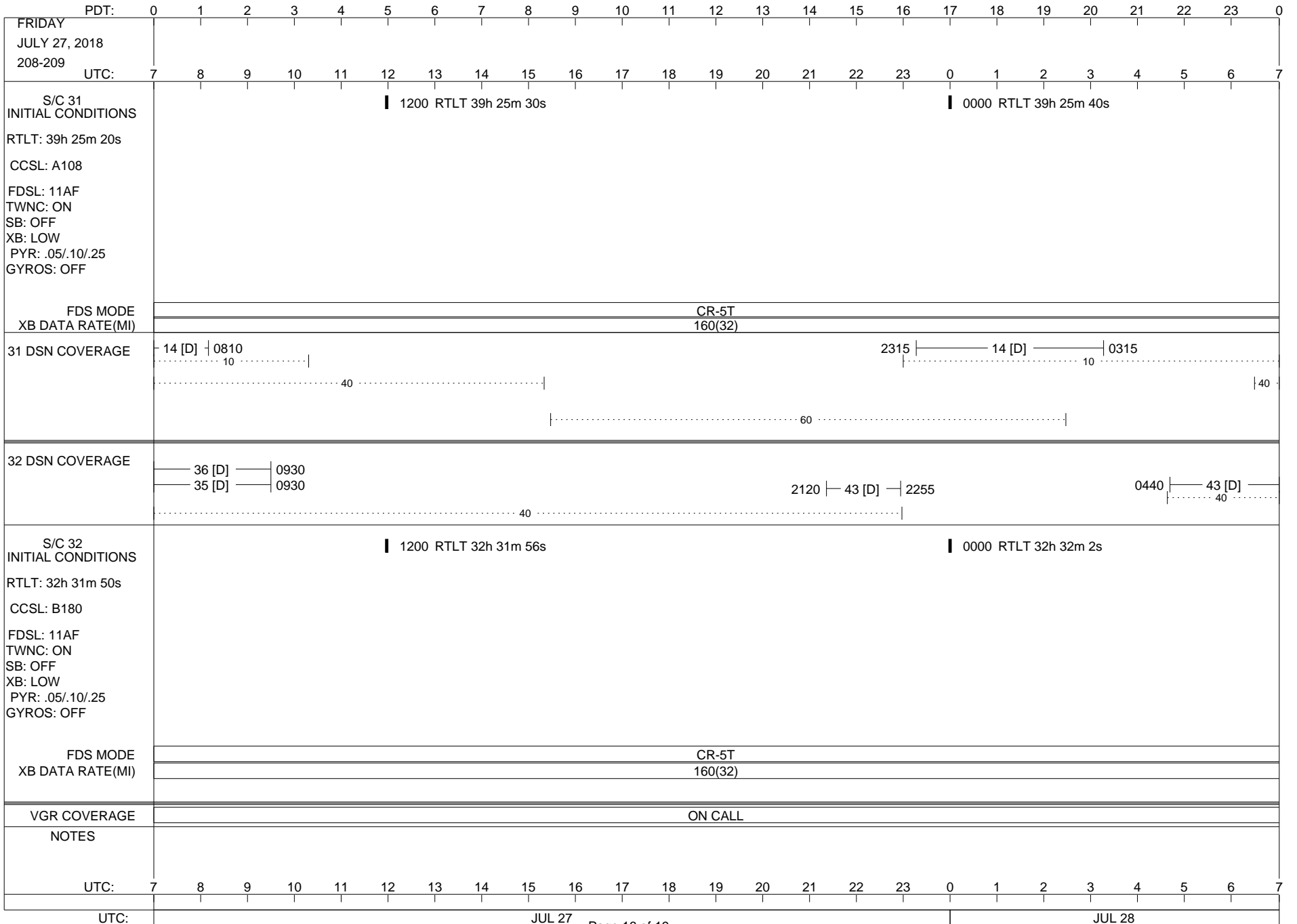
TUESDAY JULY 24, 2018 205-206		PDT: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0																											
UTC: 7		8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7																											
S/C 31 INITIAL CONDITIONS RTLT: 39h 24m 20s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 24m 30s												0000 RTLT 39h 24m 40s																
	▼ 0900 DUMMY (00:25) U/L 0925 | - - - - - TLC (SHORT-FORM)												↓ 0017 BAY 1 HTR OFF ↓ 0017 GYROS AC ON																
	1003 | - - | 1035 SHUNT POWER TEST 1112 | 1113 PWS/RH 1005↓ ↓ 1112 GS-4B 1113												0017 | - - GYRO COND - - | 0317 0117 || 0121 2 SID MRO'S - ECR 114612 0217 || 0221 2 MRO'S - REDUNDANT ↓ 0317 GYROS OFF ↓ 0326 BAY 1 HTR ON																
	FDS MODE XB DATA RATE(MI)		CR-5T 160(32)			CR-5T 160(32)			CR-5T 160(32)						CR-5T 160(32)														
31 DSN COVERAGE		..... 10 ..... | ..... 43 [T] ..... | 1135 40 60												2330 |----- 14 [D] -----| 0330 10														
32 DSN COVERAGE		1235 |----- 43 [D] -----| 1635 40												2000 |----- 43 [D] -----| 2305 40 0450 |----- 43 [D] -----| ..... 40															
S/C 32 INITIAL CONDITIONS RTLT: 32h 31m 14s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 31m 20s												0000 RTLT 32h 31m 26s																
	1236 | PLSCAL - | 1418 1236 | - - - - MAGCAL - - - - | 1538 1236 | - - - - PESCAL - - - - | 1556																												
	FDS MODE XB DATA RATE(MI)		CR-5T 160(32)																										
	VGR COVERAGE		VGR												ON CALL												VGR		ON CALL
NOTES		[1] S/C 31=GS-4B @ 1112 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 24												JUL 25															

ISSUE DATE: 07/11/18 09:42

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 JULY 25, 2018 206-207																									
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 24m 40s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 39h 24m 50s												█ 0000 RTLT 39h 25m 0s							
FDS MODE XB DATA RATE(MI)																									
31 DSN COVERAGE																									
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS RTLT: 32h 31m 26s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 32h 31m 32s												█ 0000 RTLT 32h 31m 38s							
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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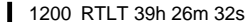
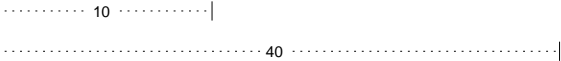
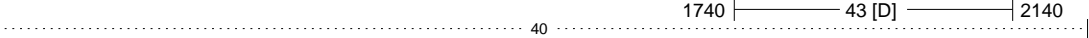
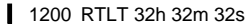


ISSUE DATE: 07/11/18 09:42

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												
	1724 | TAPPOS | 1859												2025 | 2027 PWS/RH												
													2037 | TAPPOS | 2159												
													↓ 2025 GS-4B 2027												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	.....10.....|										|.....10.....0135 |-----14 [D]-----													
	.....40.....|										|.....40.....| 40													
	|.....60.....|																								
32 DSN COVERAGE	— 43 [D] —| 0840												0435 - 0645 |— 43 [D] —|												
	.....40.....|												|.....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	CR-5T																								
XB DATA RATE(MI)	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												

ISSUE DATE: 07/11/18 09:42

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 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	CR-5T																								
XB DATA RATE(MI)	160(32)																								
31 DSN COVERAGE	| 0705 14 [D] .....| .....10 .....|.....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	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 29												JUL 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		
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	<div style="text-align: center;">  <p>1200 RTLT 39h 26m 32s</p> </div>																										
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)													
31 DSN COVERAGE	<div style="text-align: center;">  <p>10 ..... | ..... 40</p> </div>																										
32 DSN COVERAGE	<div style="text-align: center;">  <p>40 1740 | ..... 43 [D] ..... | ..... 2140</p> </div>																										
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	<div style="text-align: center;">  <p>1200 RTLT 32h 32m 32s</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:	JUL 30													JUL 31													