

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: October 17, 2018

For the Period: 10/18/18 to 11/05/18 (18/291 – 18/309)

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.	

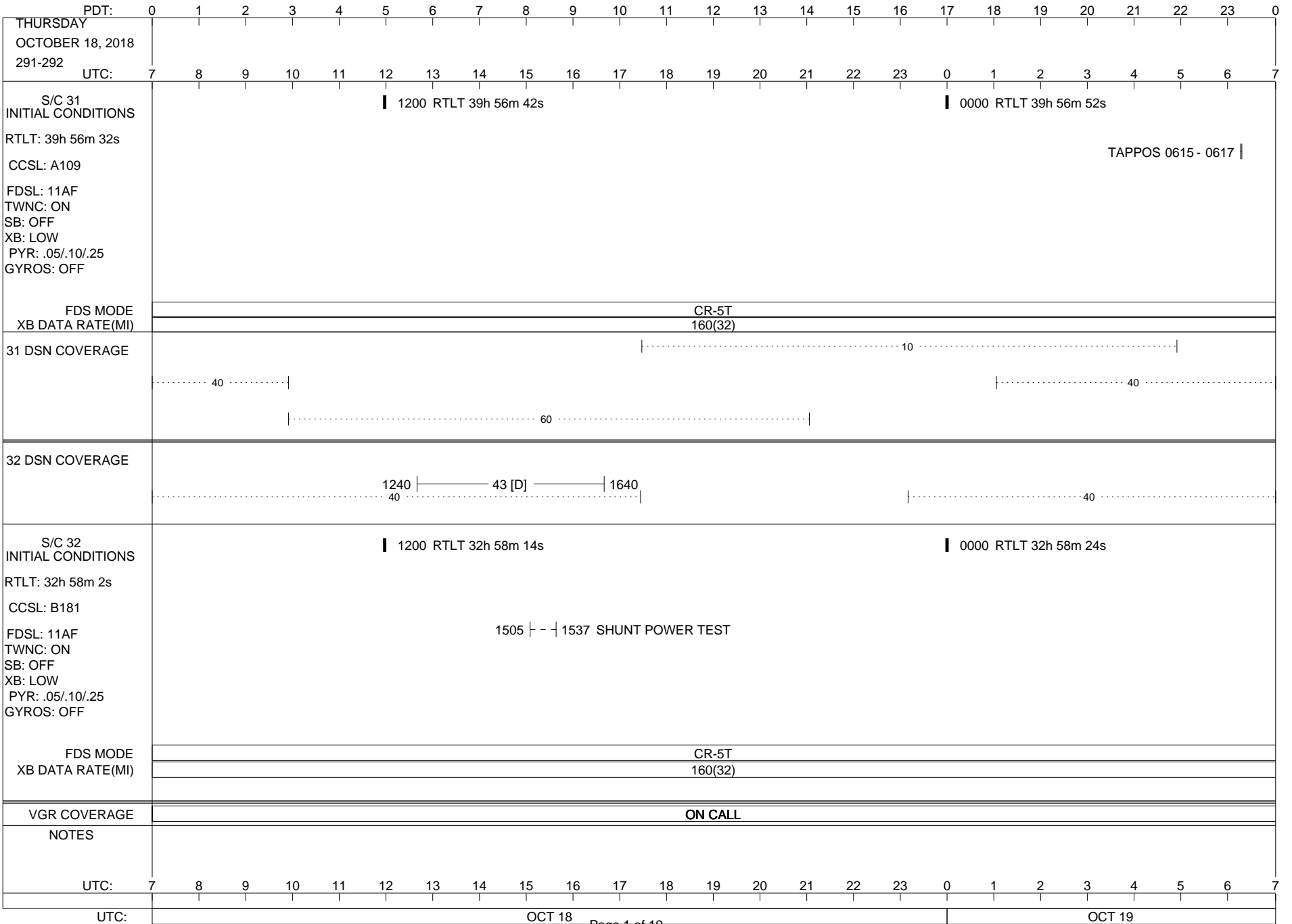
**LEGEND:**

- ▽ = 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)

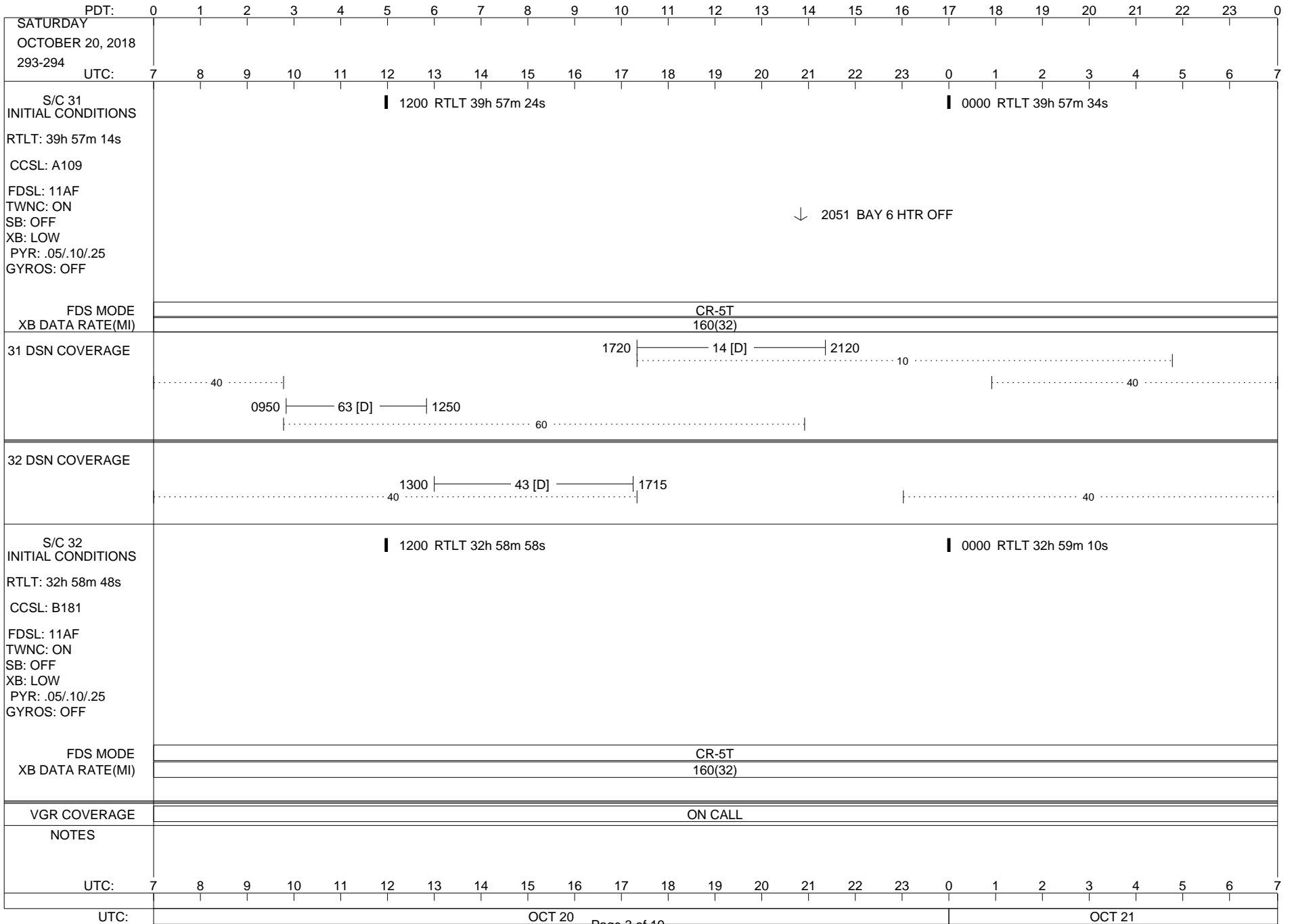
02/27/17

ISSUE DATE: 10/17/18 11:56



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FRIDAY OCTOBER 19, 2018 292-293																											
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 56m 52s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 57m 4s												0000 RTLT 39h 57m 14s														
	0917    0919 PWS/RH 0929   0941 TAPPOS ↓ 1251 BAY 6 HTR ON ↓ 0917 GS-4B 0919																										
FDS MODE	CR-5T												CR-5T														
XB DATA RATE(MI)	160(32)												160(32)														
31 DSN COVERAGE	..... .....10..... ..... .....40..... .....40..... 0950  -----63 [D]-----  1420  -----60-----																										
32 DSN COVERAGE	.....40..... .....43 [D]-----  1825 .....1350-----																										
S/C 32 INITIAL CONDITIONS RTLTL: 32h 58m 24s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 58m 36s												0000 RTLT 32h 58m 48s														
FDS MODE													CR-5T														
XB DATA RATE(MI)													160(32)														
VGR COVERAGE	ON CALL						VGR						ON CALL														
NOTES	[1] S/C 31=GS-4B @ 0917 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:	OCT 19														OCT 20												

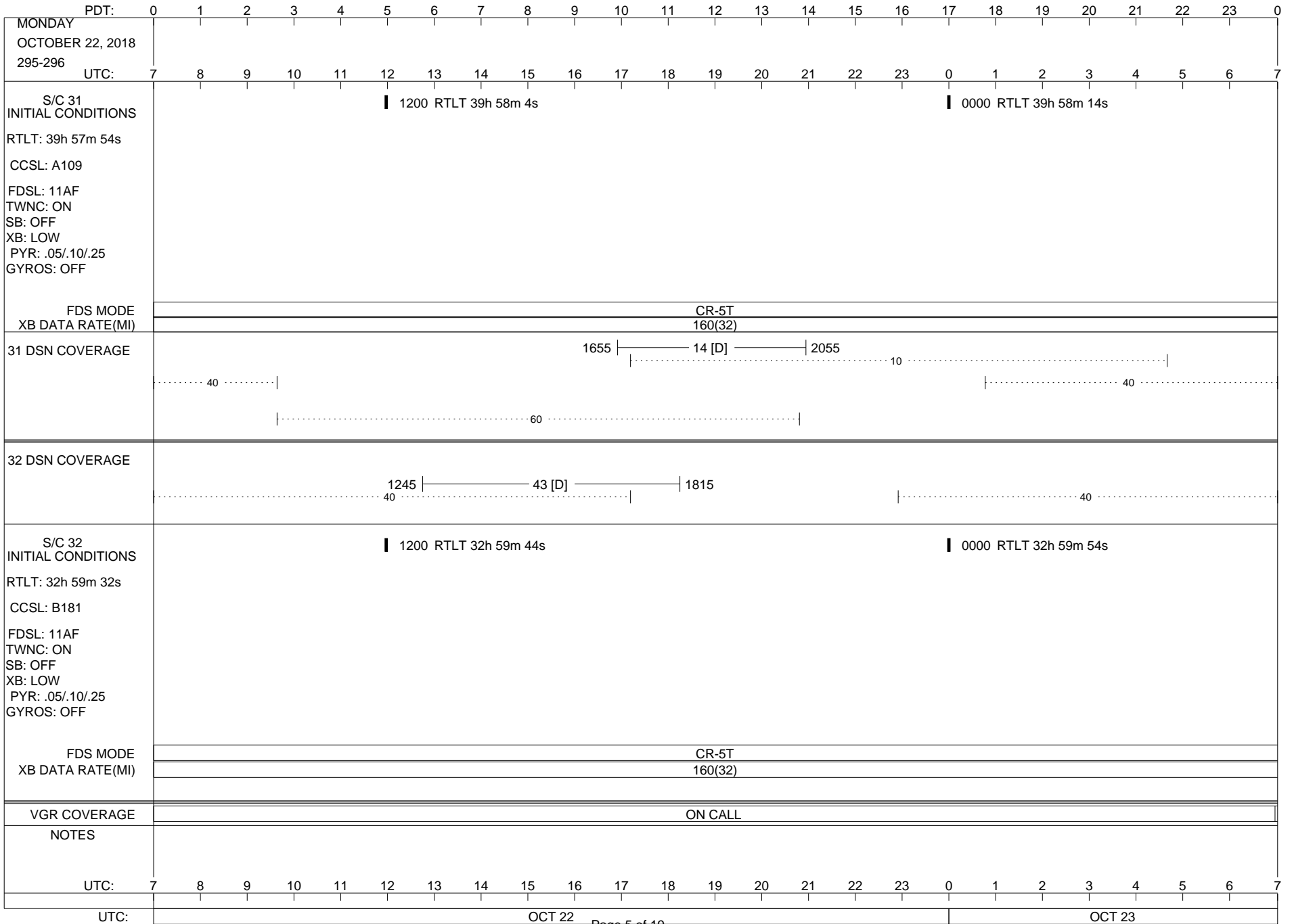
ISSUE DATE: 10/17/18 11:56



ISSUE DATE: 10/17/18 11:56

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SUNDAY OCTOBER 21, 2018 294-295																									
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S/C 31 INITIAL CONDITIONS RTLT: 39h 57m 34s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 39h 57m 44s												█ 0000 RTLT 39h 57m 54s							
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 59m 10s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 32h 59m 20s												█ 0000 RTLT 32h 59m 32s							
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
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ISSUE DATE: 10/17/18 11:56



ISSUE DATE: 10/17/18 11:56

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 OCTOBER 23, 2018 296-297	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 58m 14s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 58m 24s												0000 RTLT 39h 58m 34s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	40												1820  -----  14 [D]  -----  0445  -----  10  -----  40												
32 DSN COVERAGE	43 [B]  -----  0730 - 1130												1600  -----  43 [D]  -----  1810  -----  40  -----  40												
S/C 32 INITIAL CONDITIONS RTLT: 32h 59m 54s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 0m 6s												0000 RTLT 33h 0m 16s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
VGR COVERAGE	VGR ON CALL												VGR ON CALL												
NOTES	[1] S/C 31=GS-4B @ 0241 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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ISSUE DATE: 10/17/18 11:56

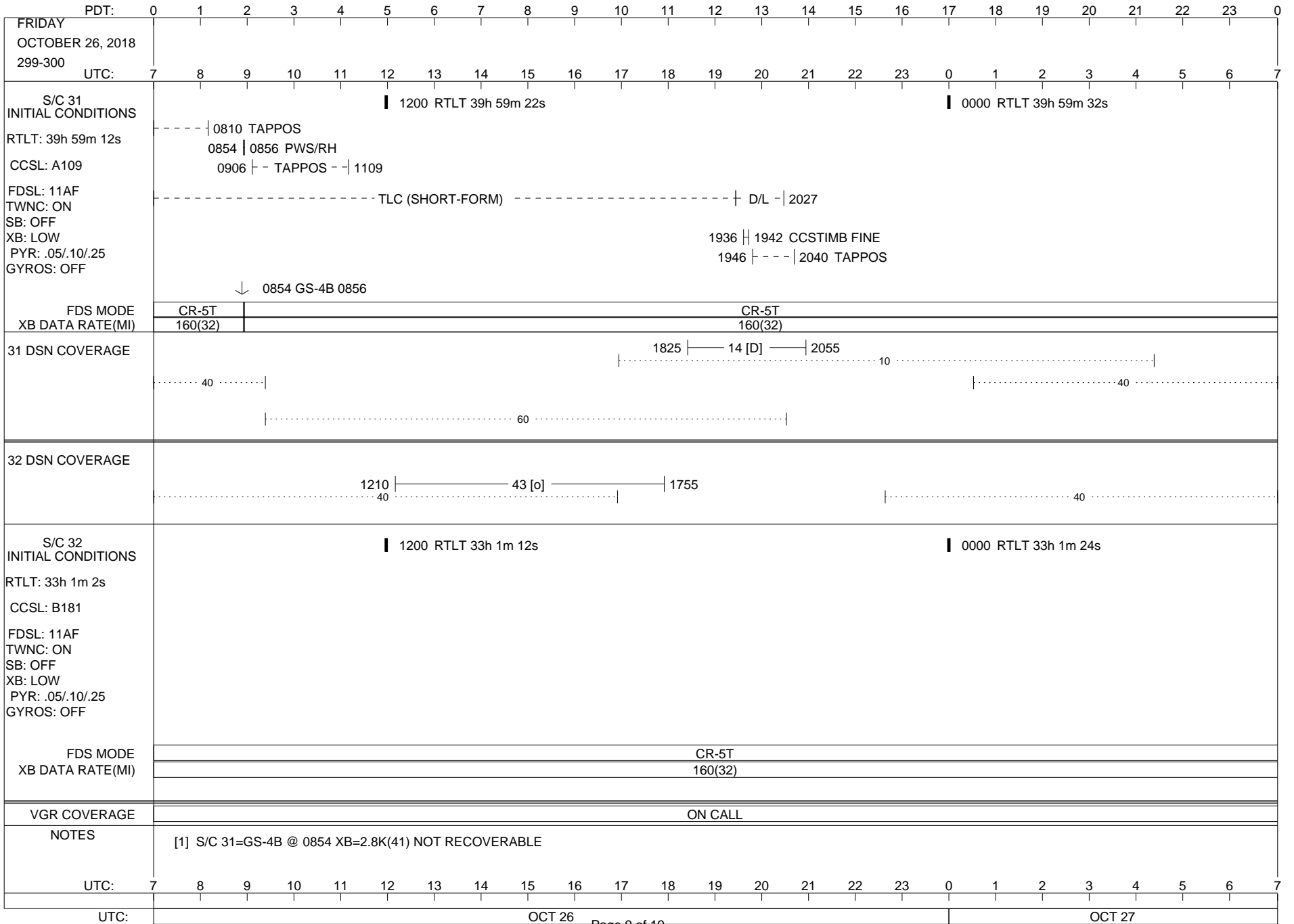
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WEDNESDAY OCTOBER 24, 2018 297-298																									
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLTL: 39h 58m 34s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF						█ 1200												█ 0000							
FDS MODE XB DATA RATE(MI)																									
31 DSN COVERAGE																									
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS RTLTL: 33h 0m 16s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF						█ 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:																									



ISSUE DATE: 10/17/18 11:56

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 OCTOBER 25, 2018 298-299																									
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 58m 52s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/.25 GYROS: OFF						█ 1200 RTLT 39h 59m 2s												█ 0000 RTLT 39h 59m 12s							
FDS MODE XB DATA RATE(MI)																									
31 DSN COVERAGE																									
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS RTLT: 33h 0m 38s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/.25 GYROS: OFF						█ 1200 RTLT 33h 0m 50s												█ 0000 RTLT 33h 1m 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:	OCT 25													OCT 26											

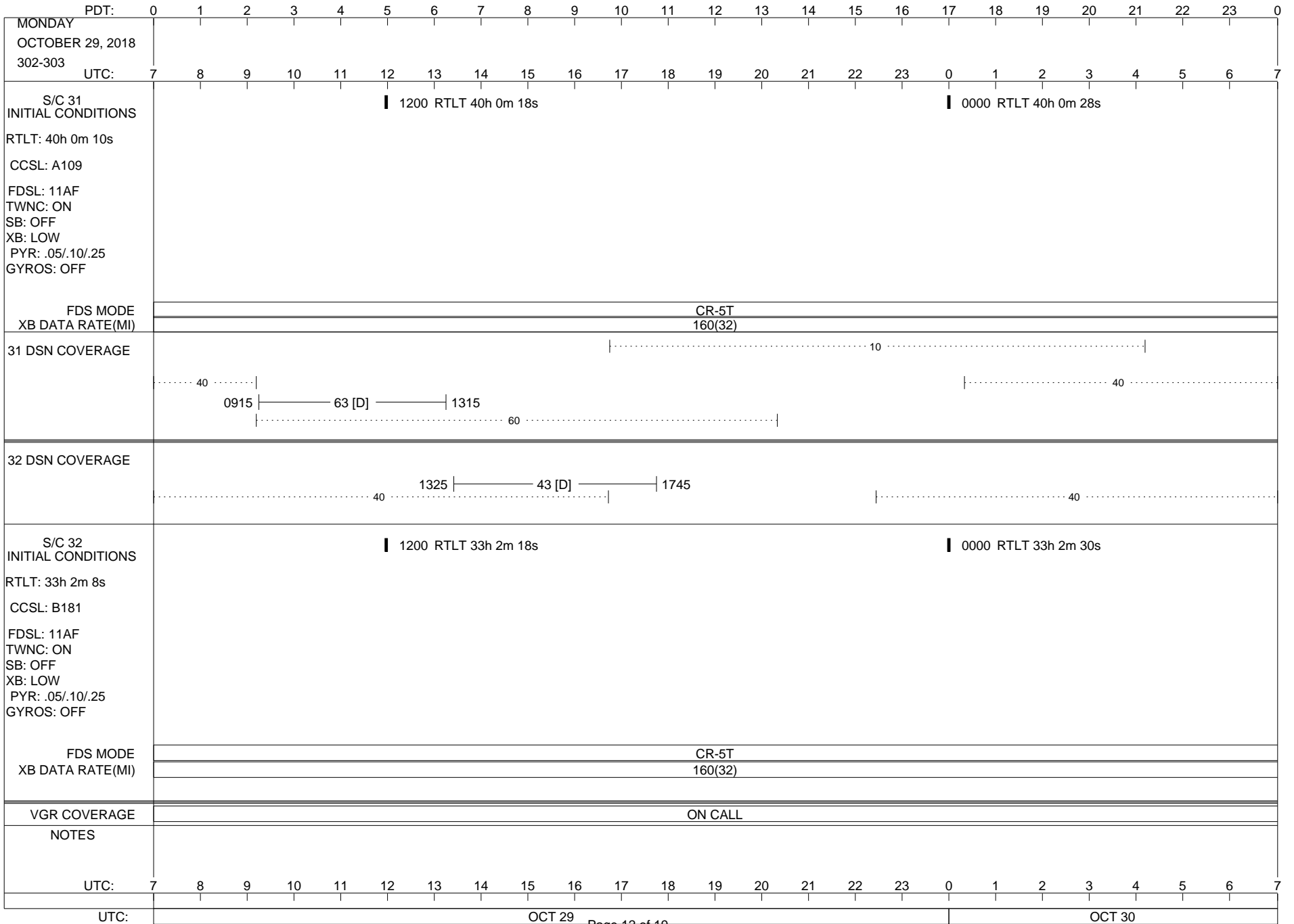
ISSUE DATE: 10/17/18 11:56





ISSUE DATE: 10/17/18 11:56

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 OCTOBER 28, 2018 301-302					
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 59m 50s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLT 40h 0m 0s</p> <p>0853   - TAPPOS -   1056</p> <p>1155   1156 PWS/RH</p> <p>1206   - TAPPOS -   1356</p> <p>↓ 1155 GS-4B 1156</p> <p>0715 TAPPOS</p> <p>0000 RTLT 40h 0m 10s</p>				
FDS MODE XB DATA RATE(MI)	<table border="1"> <tr> <td>CR-5T</td> <td>CR-5T</td> </tr> <tr> <td>160(32)</td> <td>160(32)</td> </tr> </table>	CR-5T	CR-5T	160(32)	160(32)
CR-5T	CR-5T				
160(32)	160(32)				
31 DSN COVERAGE	<p>1630  ----- 14 [D] -----  2110</p> <p>..... 10 .....</p> <p>..... 40 .....</p> <p>..... 40 .....</p> <p>..... 60 .....</p>				
32 DSN COVERAGE	<p>..... 40 .....</p> <p>1350  ----- 43 [D] -----  1750</p> <p>..... 40 .....</p>				
S/C 32 INITIAL CONDITIONS RTLT: 33h 1m 46s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLT 33h 1m 56s</p> <p>0000 RTLT 33h 2m 8s</p>				
FDS MODE XB DATA RATE(MI)	<table border="1"> <tr> <td>CR-5T</td> </tr> <tr> <td>160(32)</td> </tr> </table>	CR-5T	160(32)		
CR-5T					
160(32)					
VGR COVERAGE	ON CALL				
NOTES	[1] S/C 31=GS-4B @ 1155 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: OCT 28   Page 11 of 19   OCT 29					



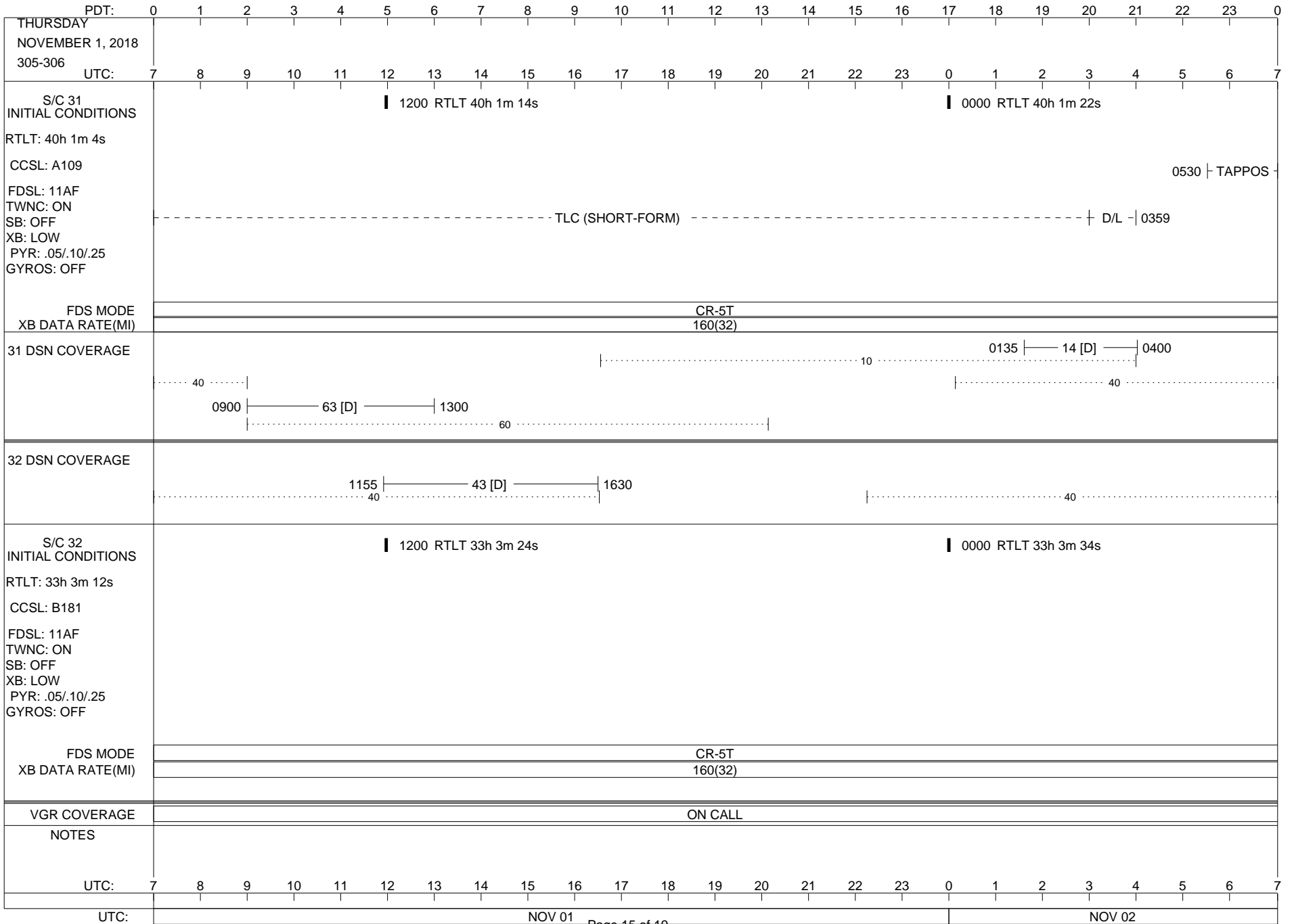
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UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7			
TUESDAY OCTOBER 30, 2018 303-304																												
S/C 31 INITIAL CONDITIONS RTLTL: 40h 0m 28s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 40h 0m 38s														█ 0000 RTLTL 40h 0m 46s													
FDS MODE	CR-5T														CR-5T													
XB DATA RATE(MI)	160(32)														160(32)													
31 DSN COVERAGE	<p>.....40..... .....2020 -----14 [D]----- 0020 .....40.....</p> <p>.....0905 63 [D] 1010 .....60 .....</p>																											
32 DSN COVERAGE	<p>.....1220 -----43 [D]----- 1635 .....40.....</p>																											
S/C 32 INITIAL CONDITIONS RTLTL: 33h 2m 30s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 33h 2m 40s														█ 0000 RTLTL 33h 2m 52s													
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 @ 0218 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:	OCT 30														OCT 31													

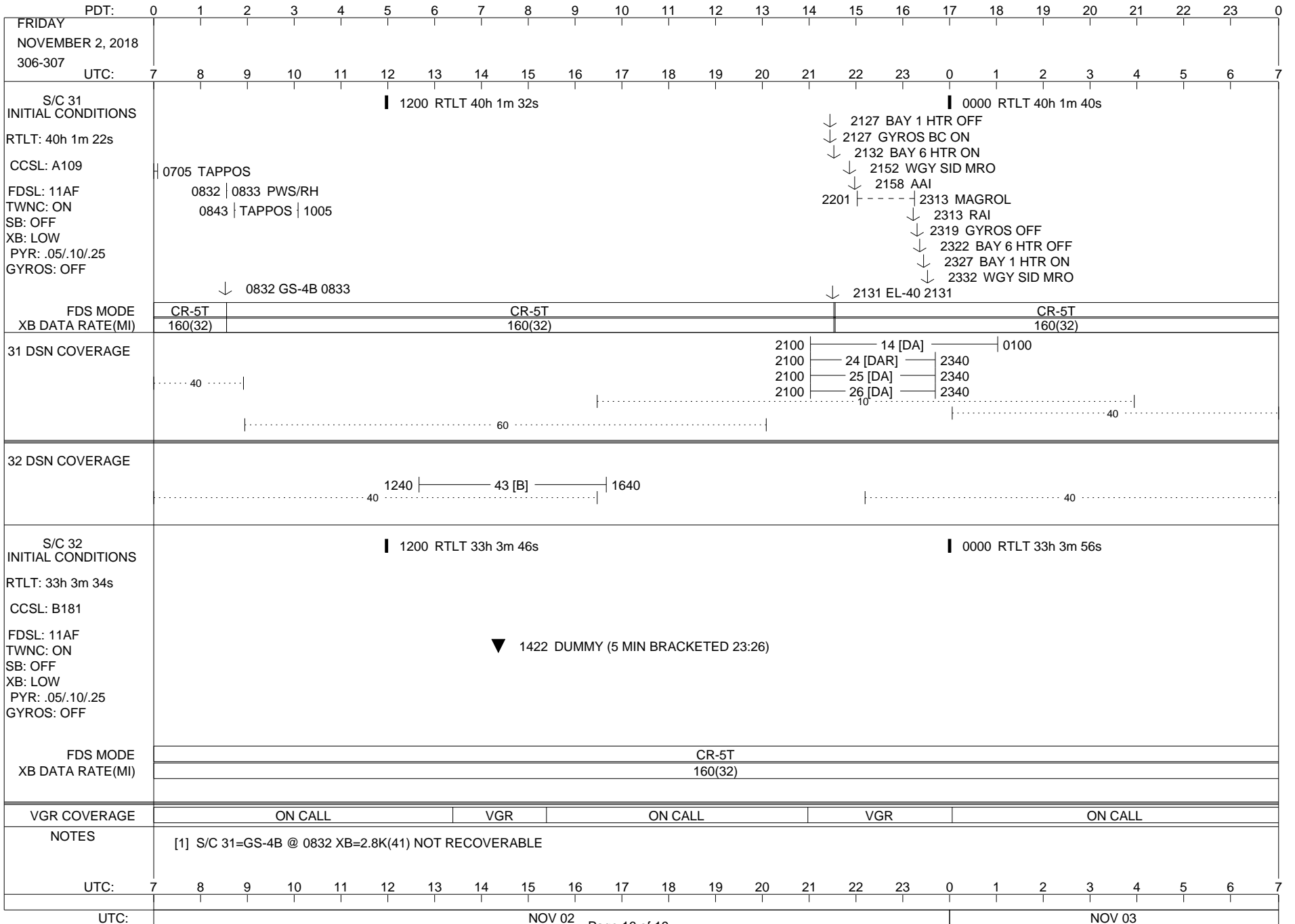
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PDT:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0
WEDNESDAY OCTOBER 31, 2018 304-305																									
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLT: 40h 0m 46s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/.25 GYROS: OFF	█ 1200 RTLT 40h 0m 56s												█ 0000 RTLT 40h 1m 4s												
	▼ 1000 DUMMY (02:01)																								
	U/L 1030   -												TLC (SHORT-FORM) -----												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	.....												.....												
	.....40.....												.....40.....												
	0920  -----63 [T]-----  1345												.....												
	-----60-----																								
32 DSN COVERAGE	.....												.....												
	.....40.....												.....40.....												
	1235  -----43 [D]-----  1635																								
S/C 32 INITIAL CONDITIONS RTLT: 33h 2m 52s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/.25 GYROS: OFF	█ 1200 RTLT 33h 3m 2s												█ 0000 RTLT 33h 3m 12s												
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:	OCT 31												NOV 01												

ISSUE DATE: 10/17/18 11:56



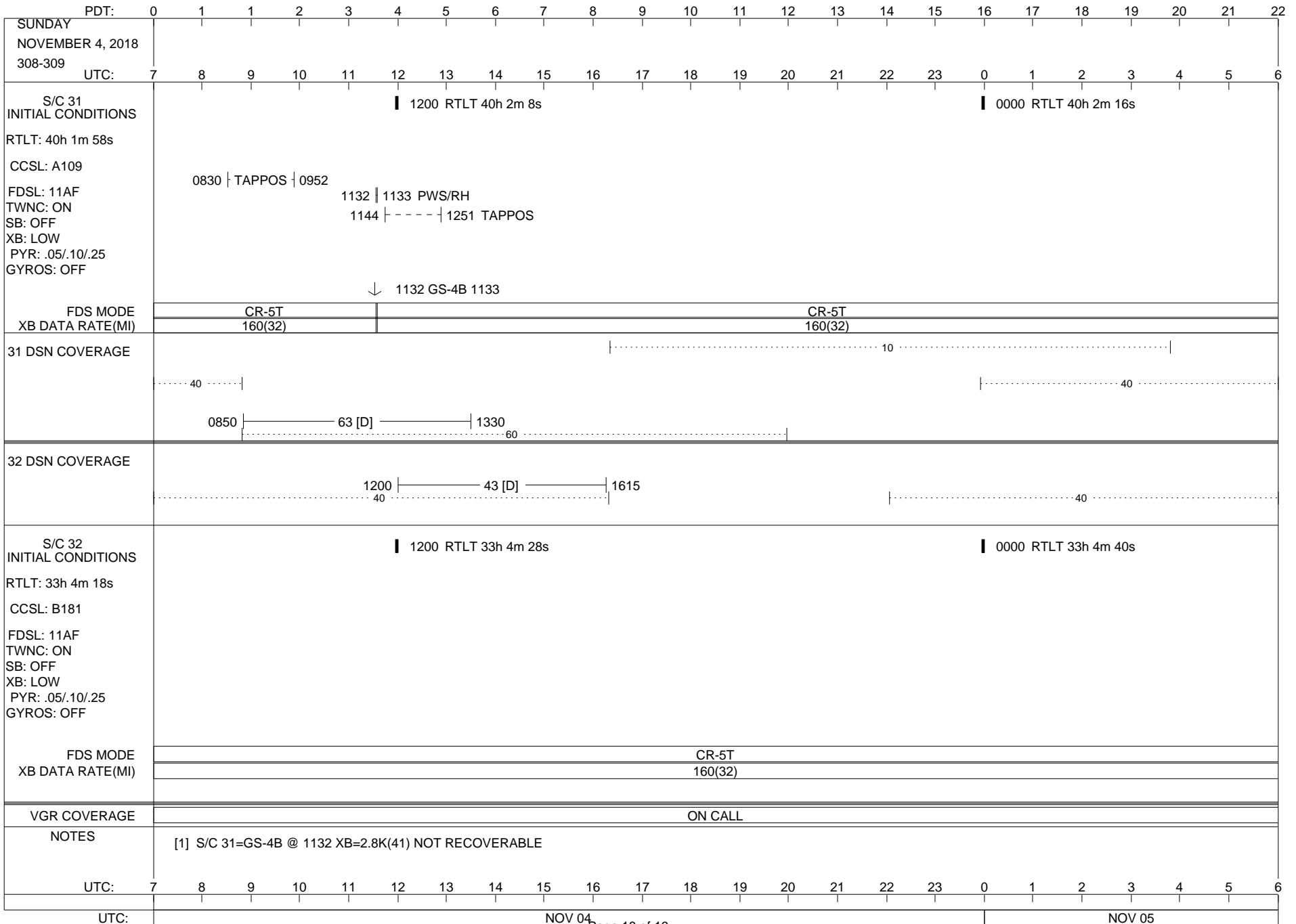




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SATURDAY NOVEMBER 3, 2018 307-308																									
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLT: 40h 1m 40s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 40h 1m 50s												█ 0000 RTLT 40h 1m 58s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	0855  ----- 63 [D] -----  1320												----- 40 -----												
	----- 40 -----												----- 60 -----												
32 DSN COVERAGE	1305  ----- 43 [D] -----  1725												2315  ----- 43 [D] -----  0210												
	----- 40 -----												----- 40 -----												
S/C 32 INITIAL CONDITIONS RTLT: 33h 3m 56s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 33h 4m 8s												█ 0000 RTLT 33h 4m 18s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL												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:	NOV 03												NOV 04												

ISSUE DATE: 10/17/18 11:56



ISSUE DATE: 10/17/18 11:56

		PST:	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
MONDAY																													
NOVEMBER 5, 2018																													
309-310		UTC:	6	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 40h 2m 24s																											
RTLT: 40h 2m 16s																													
CCSL: A109																													
FDSL: 11AF																													
TWNC: ON																													
SB: OFF																													
XB: LOW																													
PYR: .05/10/25																													
GYROS: OFF																													
FDS MODE																CR-5T													
XB DATA RATE(MI)																160(32)													
31 DSN COVERAGE		<p>..... 40 .....</p> <p>..... 60 .....</p>																											
32 DSN COVERAGE		<p>..... 40 ..... 1215  ----- 43 [D] -----  1615</p>																											
S/C 32 INITIAL CONDITIONS		1200 RTLT 33h 4m 50s																											
RTLT: 33h 4m 40s																													
CCSL: B181																													
FDSL: 11AF																													
TWNC: ON																													
SB: OFF																													
XB: LOW																													
PYR: .05/10/25																													
GYROS: OFF																													
FDS MODE																↓ 1612													
XB DATA RATE(MI)		CR-5T														CR-5T													
		160(32)														160(32)													
VGR COVERAGE		ON CALL																											
NOTES																													
UTC:		6	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:		NOV 05														NOV 06													