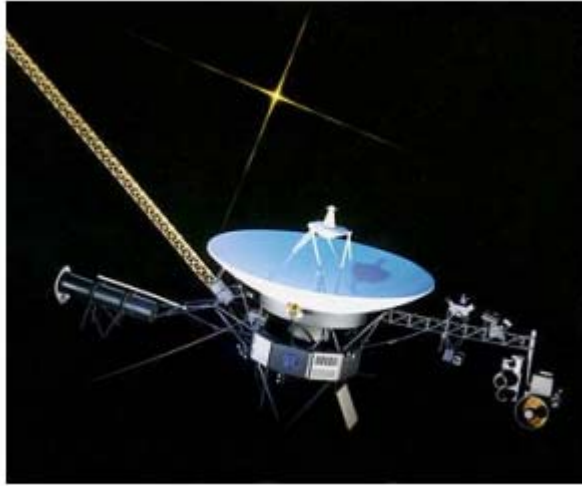


VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: October 27, 2021

For the Period: 10/28/21 to 11/15/21 (21/301 – 21/319)



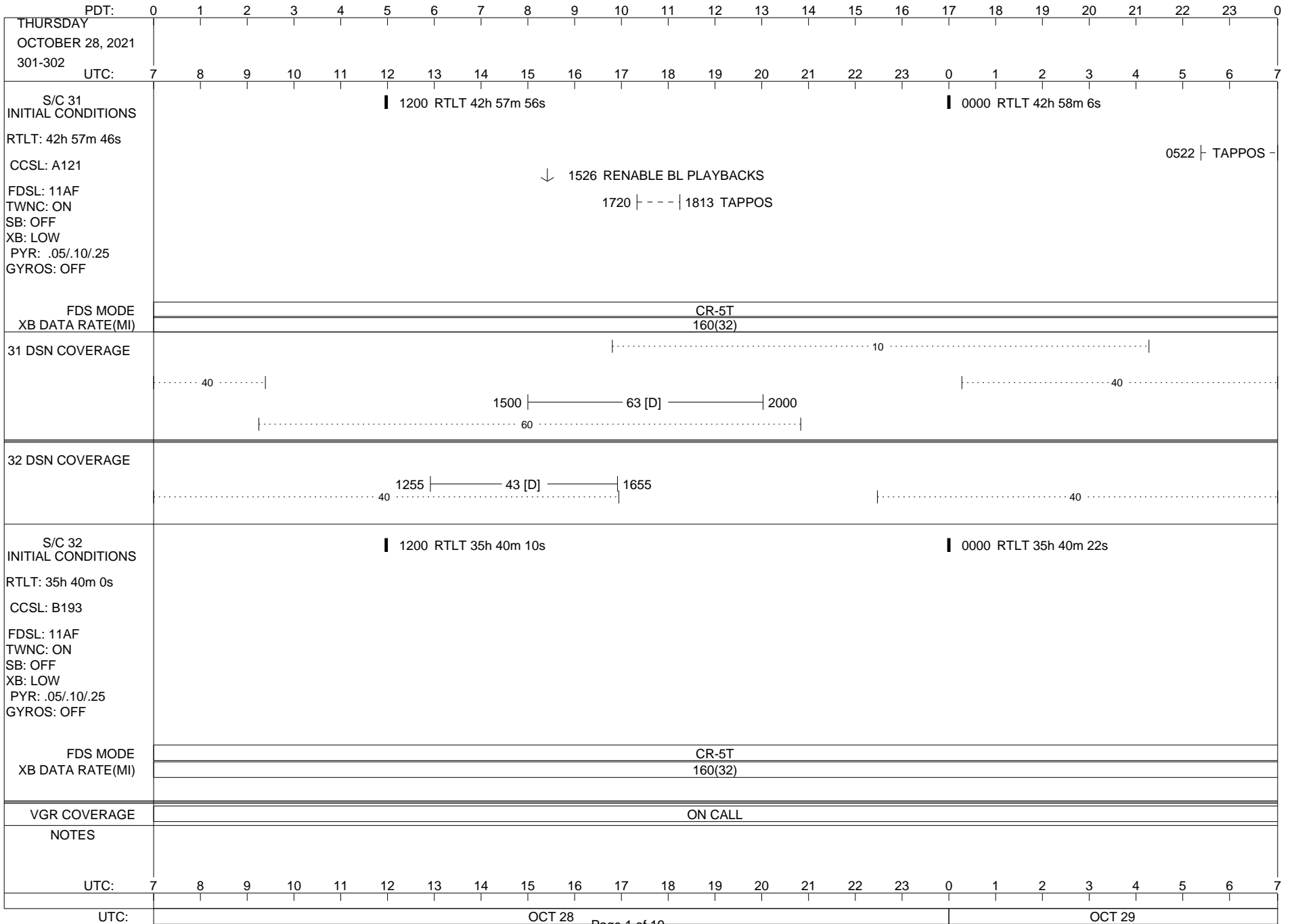
Posted at <https://voyager.jpl.nasa.gov/mission/status/>

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

02/27/19

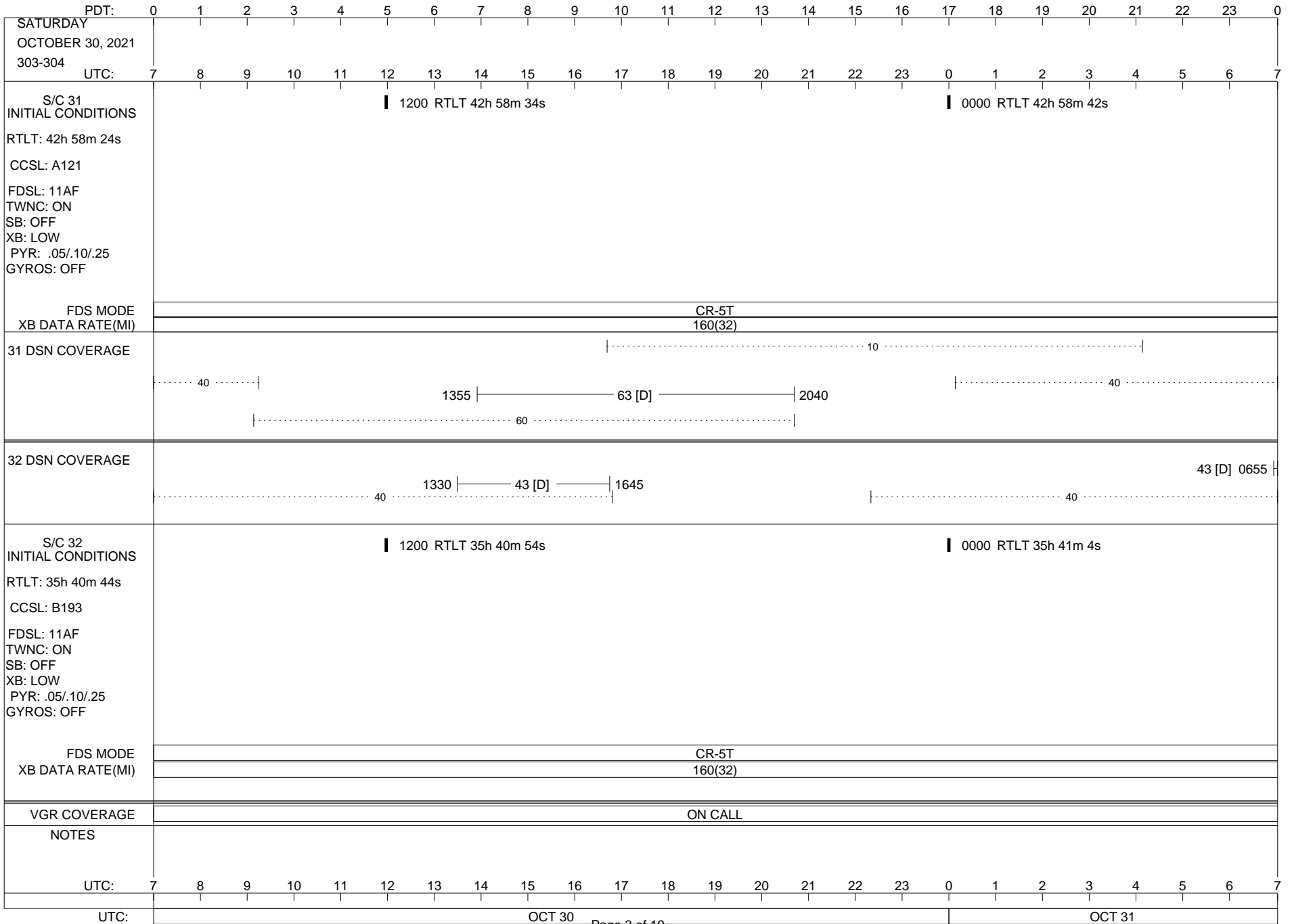
ISSUE DATE: 10/27/21 09:29



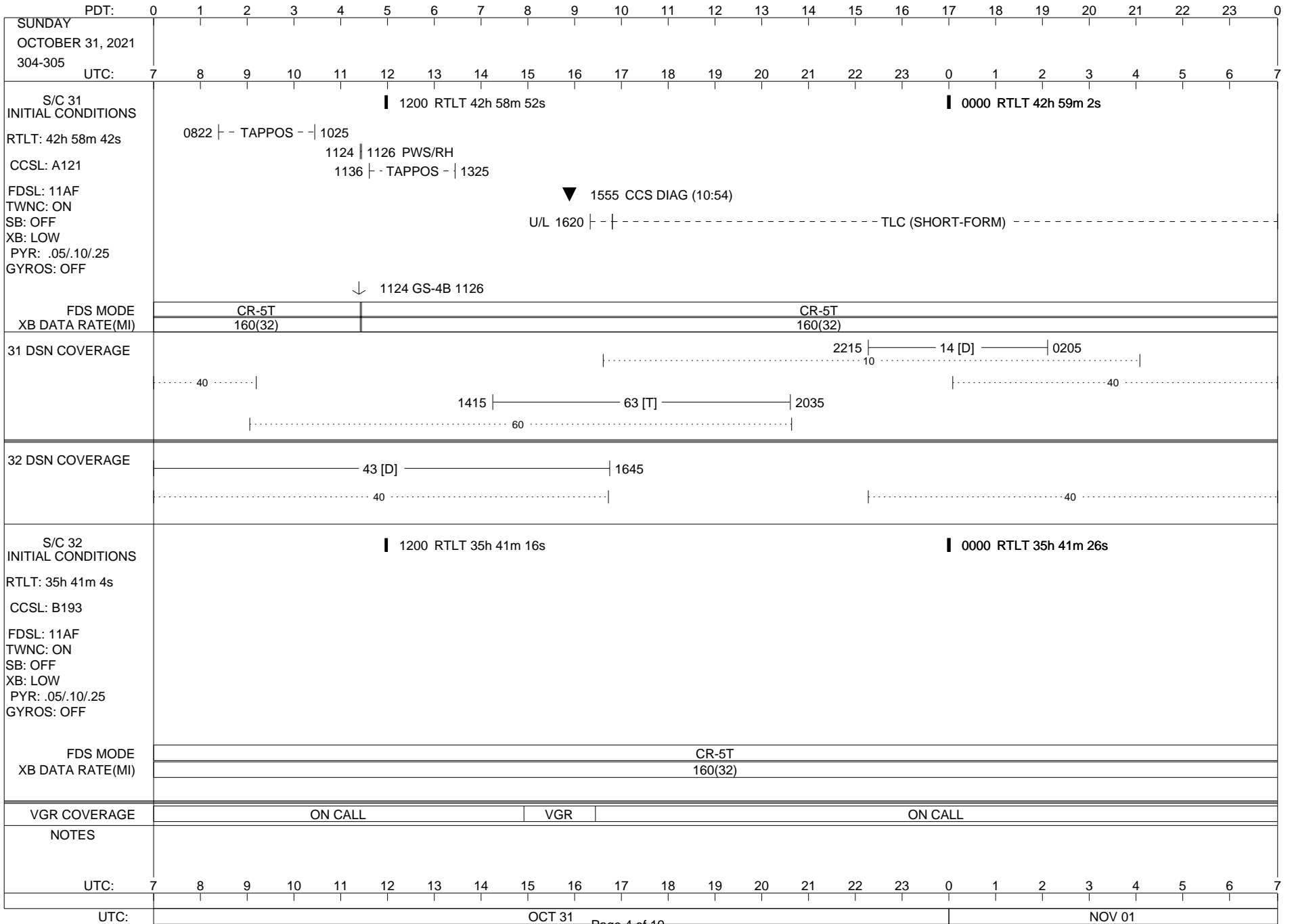
ISSUE DATE: 10/27/21 09:29

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FRIDAY OCTOBER 29, 2021 302-303																									
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: 42h 58m 6s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 42h 58m 14s												█ 0000 RTLT 42h 58m 24s												
	-- 0739 TAPPOS 0824 0825 PWS/RH 0836 - TAPPOS - 1039												1905 1912 CCSTIMB FINE												
	↓ 0824 GS-4B 0825																								
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	<p>.....10.....</p> <p>.....40.....</p> <p>1230 ----- 53 [DAR1] ----- 1545</p> <p>1230 ----- 63 [DA] ----- 2045</p> <p>.....60.....</p>																								
32 DSN COVERAGE	<p>.....2345 ----- 43 [B] ----- 0345</p> <p>.....1250 ----- 43 [D] ----- 1650</p> <p>.....40.....40.....</p>																								
S/C 32 INITIAL CONDITIONS RTLT: 35h 40m 22s CCSL: B193 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 35h 40m 32s												█ 0000 RTLT 35h 40m 44s												
	DUMMY (5 MIN BRACKETED 13:48) 0207▼																								
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL												VGR						ON CALL						
NOTES	[1] DSS-53 PIT																								
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 29												Page 2 of 19						OCT 30						

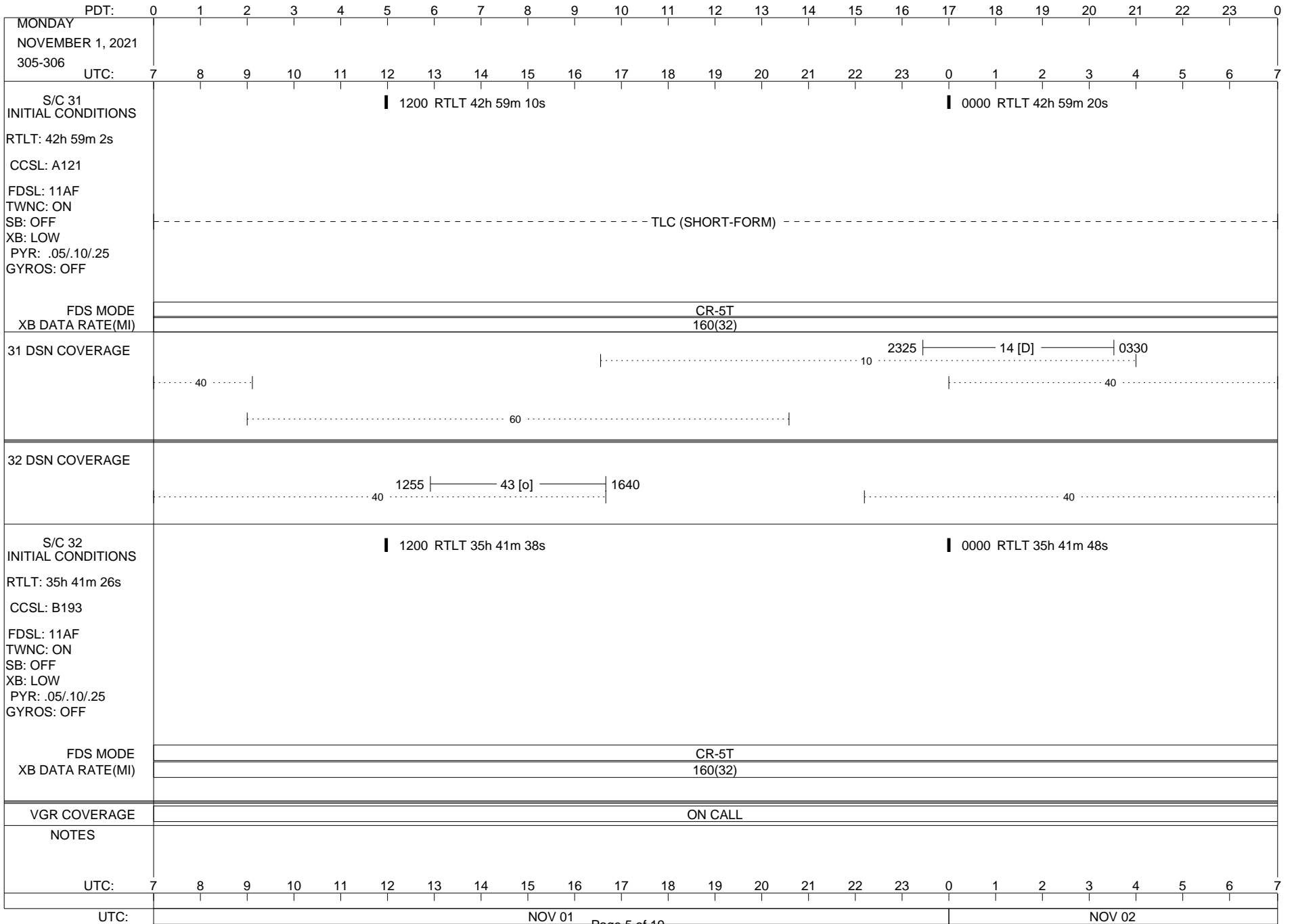
ISSUE DATE: 10/27/21 09:29



ISSUE DATE: 10/27/21 09:29



ISSUE DATE: 10/27/21 09:29

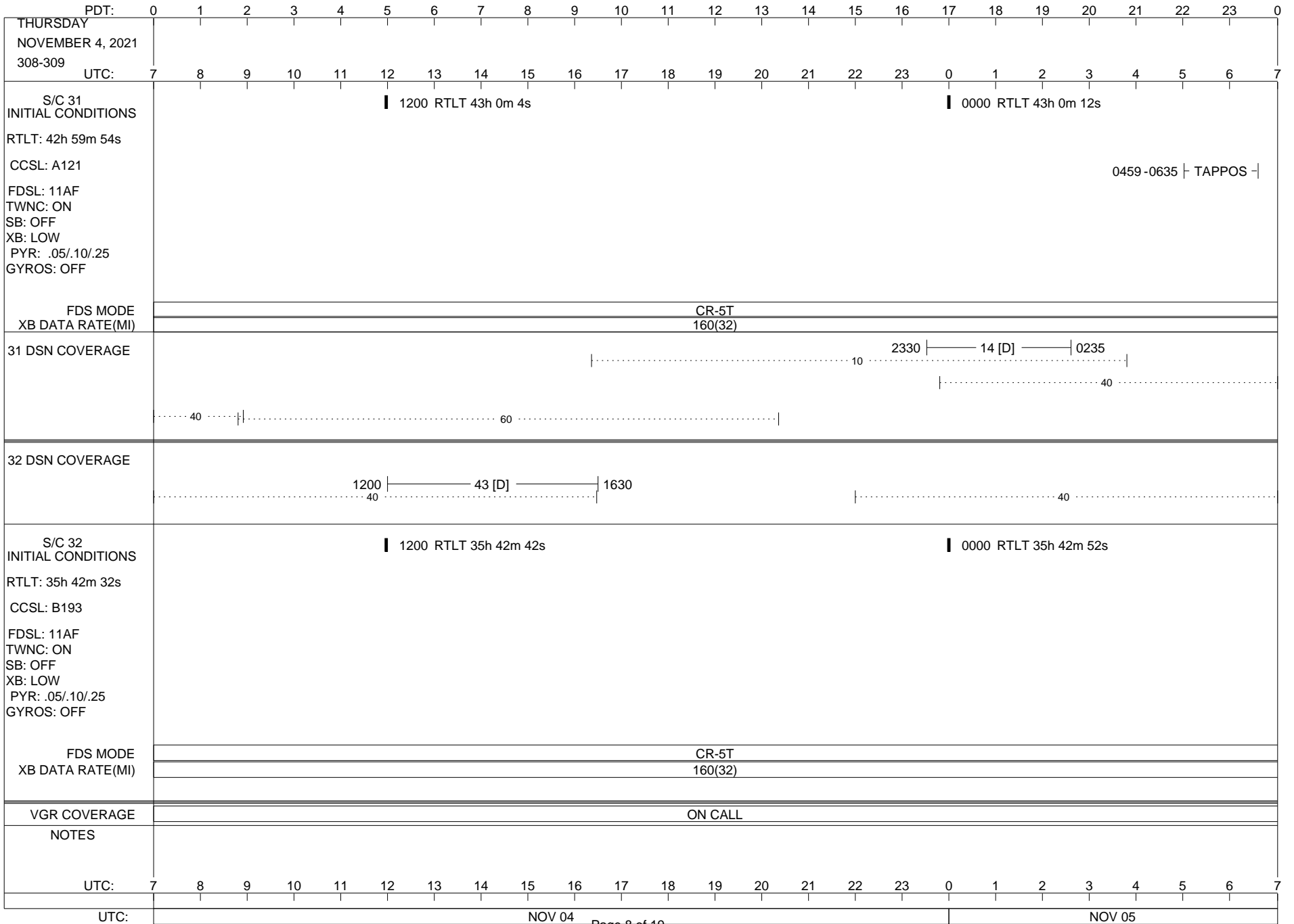


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TUESDAY NOVEMBER 2, 2021 306-307																									
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLT: 42h 59m 20s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	█ 1200 RTLT 42h 59m 28s												█ 0000 RTLT 42h 59m 38s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	1630 ----- 14 [D] ----- 1855												10 ----- 40 -----												
	40 ----- 1030 ----- 63 [D] ----- 1430												60 ----- 40 -----												
32 DSN COVERAGE	1220 ----- 43 [D] ----- 1635												0105-0655 ----- 43 [o] -----												
	40 ----- 40 -----																								
S/C 32 INITIAL CONDITIONS RTLT: 35h 41m 48s CCSL: B193 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	█ 1200 RTLT 35h 41m 58s												█ 0000 RTLT 35h 42m 10s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												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:	NOV 02												NOV 03												

ISSUE DATE: 10/27/21 09:29

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 NOVEMBER 3, 2021 307-308																												
S/C 31 INITIAL CONDITIONS RTLT: 42h 59m 38s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 42h 59m 46s														0000 RTLT 42h 59m 54s													
FDS MODE	CR-5T														EL-40		CR-5T											
XB DATA RATE(MI)	160(32)														40(30)		160(32)											
31 DSN COVERAGE	<p>2125 25 [DAR] 2330</p> <p>2125 14 [DA] 0350</p> <p>40 1535 63 [D] 1940</p> <p>60 40</p>																											
32 DSN COVERAGE	<p>40 1300 43 [D] 1615</p> <p>40</p>																											
S/C 32 INITIAL CONDITIONS RTLT: 35h 42m 10s CCSL: B193 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 35h 42m 20s														0000 RTLT 35h 42m 32s													
FDS MODE	CR-5T																											
XB DATA RATE(MI)	160(32)																											
VGR COVERAGE	ON CALL														VGR		ON CALL											
NOTES	<p>[1] SC 31=EL-40 @ 2224 XB=40(30)</p> <p>[2] SC 31=CR-5T @ 2325 XB=160(32)</p>																											
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: 10/27/21 09:29



ISSUE DATE: 10/27/21 09:29

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 NOVEMBER 5, 2021 309-310																													
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: 43h 0m 12s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF		1200 RTLT 43h 0m 20s														0000 RTLT 43h 0m 30s													
FDS MODE XB DATA RATE(MI)		CR-5T														CR-5T 160(32)													
31 DSN COVERAGE																													
32 DSN COVERAGE																													
S/C 32 INITIAL CONDITIONS RTLT: 35h 42m 52s CCSL: B193 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF		1200 RTLT 35h 43m 4s														0000 RTLT 35h 43m 14s													
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:		NOV 05														NOV 06													

ISSUE DATE: 10/27/21 09:29

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																												
NOVEMBER 6, 2021																												
310-311																												
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: 43h 0m 30s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 43h 0m 38s																								0000 RTLT 43h 0m 46s			
	↓ 1008 BAY 1 HTR OFF ↓ 1012 X/B HI POWER ↓ 1023 YAW=.05 1034 ----- 1635 ↓ 1632 X/B LOW POWER ↓ 1636 BAY 1 HTR ON ↓ 1645 YAW=.10 1934 TAPPOS 2055 ↓ 1034 PB-14 1034 ↓ 1635 CR-5T 1635																								↓ 2133 BAY 1 HTR OFF ↓ 2133 GYROS BC ON ↓ 2133 GYRO INIT ↓ 2143 GYRO FAULT TEST ↓ 2203 AAI 2206 ----- 2237 MAGROL ↓ 2245 RAI ↓ 2252 GYROS OFF ↓ 2300 BAY 1 HTR ON ↓ 2136 EL-40 2138			
	FDS MODE XB DATA RATE(MI)	CR-5T 160(32)	PB-14 1.4K(39)						CR-5T 160(32)						CR-5T 160(32)													
	31 DSN COVERAGE																											
32 DSN COVERAGE																												
S/C 32 INITIAL CONDITIONS RTLT: 35h 43m 14s CCSL: B193 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 35h 43m 24s																								0000 RTLT 35h 43m 34s			
	1544 1600 SHUNT POWER TEST																											
	FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																										
	VGR COVERAGE	ON CALL	VGR						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:		NOV 06															NOV 07											

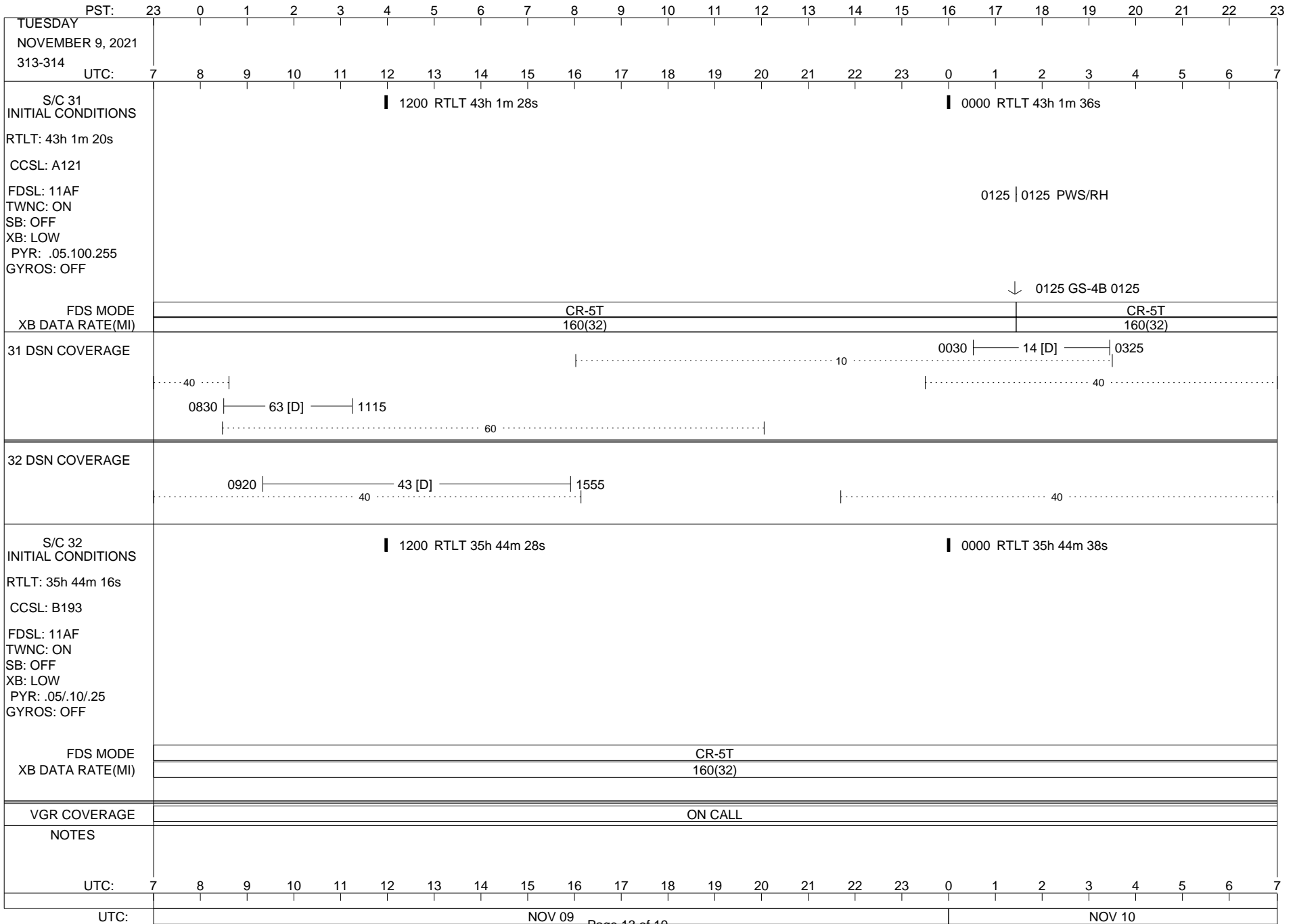
ISSUE DATE: 10/27/21 09:29

PDT:		0	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		
SUNDAY NOVEMBER 7, 2021 311-312																											
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		
S/C 31 INITIAL CONDITIONS		1200 RTLT 43h 0m 56s													0000 RTLT 43h 1m 4s												
RTLT: 43h 0m 46s																											
CCSL: A121		0759 TAPPOS 0921																									
FDSL: 11AF		1102 1103 PWS/RH																									
TWNC: ON		1113 - - - - 1221 TAPPOS																									
SB: OFF																											
XB: LOW																											
PYR: .05.100.255																											
GYROS: OFF																											
FDS MODE		CR-5T													CR-5T												
XB DATA RATE(MI)		160(32)													160(32)												
31 DSN COVERAGE		<p>.....10.....</p> <p>.....40.....1635 ----- 63 [D] ----- 2010</p> <p>.....60.....</p>																									
32 DSN COVERAGE		<p>0745 ----- 43 [D] ----- 1615</p> <p>.....40.....2300 ----- 43 [o] ----- 0355</p> <p>.....40.....</p>																									
S/C 32 INITIAL CONDITIONS		1200 RTLT 35h 43m 46s													0000 RTLT 35h 43m 56s												
RTLT: 35h 43m 34s																											
CCSL: B193		1346 * 1350 B194 CHKSUM																									
FDSL: 11AF		1419 * 1425 CCSTIM FINE																									
TWNC: ON		1436 * 1439 COARSE																									
SB: OFF																											
XB: LOW																											
PYR: .05/10/25																											
GYROS: OFF																											
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											
NOTES		<p>[1] S/C 32=EL-40 @ 1316 XB=40(30)</p> <p>[2] S/C 32=CR-5T @ 1447 XB=160(32)</p>																									
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		
UTC:		NOV 07																		NOV 08							

ISSUE DATE: 10/27/21 09:29

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 8, 2021 312-313																											
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 43h 1m 12s											0000 RTLT 43h 1m 20s															
RTLT: 43h 1m 4s												↓ 1705 BAY 1 HTR OFF ↓ 1705 GYROS AC ON 1705 - - - 1805 CONDITIONING ↓ 1806 GYROS OFF ↓ 1814 BAY 1 HTR ON															
CCSL: A121												↓ 1708 EL-40 1710															
FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05.100.255 GYROS: OFF																											
FDS MODE	CR-5T											CR-5T															
XB DATA RATE(MI)	160(32)											160(32)															
31 DSN COVERAGE												1605 ----- 14 [D] ----- 200040.....10.....40.....60.....															
32 DSN COVERAGE												1035 ----- 43 [D] ----- 161040.....40.....															
S/C 32 INITIAL CONDITIONS	1200 RTLT 35h 44m 6s											0000 RTLT 35h 44m 16s															
RTLT: 35h 43m 56s																											
CCSL: B193																											
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										
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 08																NOV 09										

ISSUE DATE: 10/27/21 09:29



ISSUE DATE: 10/27/21 09:29

PST:	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
WEDNESDAY NOVEMBER 10, 2021 314-315																									
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: 43h 1m 36s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05.100.255 GYROS: OFF						1200													0000						
FDS MODE XB DATA RATE(MI)																									
31 DSN COVERAGE												1705		14 [D]											2230
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS RTLTL: 35h 44m 38s CCSL: B193 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: 10/27/21 09:29

PST: 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

THURSDAY
NOVEMBER 11, 2021
315-316
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: 43h 1m 52s
CCSL: A121
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05.100.255
GYROS: OFF
1200 RTLT 43h 2m 0s
0000 RTLT 43h 2m 8s
▼ 1412 LEPT D2 OFF (09:14)
▼ 1455 CCS DIAG (09:57)
U/L 1520 | - | - - - - - TLC (SHORT-FORM) - - - - -

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

31 DSN COVERAGE
40 | 1320 | 63 [T] | 1805 | 40
60

32 DSN COVERAGE
40 | 1240 | 43 [D] | 1600 | 40

S/C 32
INITIAL CONDITIONS
RTLT: 35h 44m 58s
CCSL: B193
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/10/25
GYROS: OFF
1200 RTLT 35h 45m 8s
0000 RTLT 35h 45m 20s

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: NOV 11 NOV 12

ISSUE DATE: 10/27/21 09:29

PST: 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

FRIDAY
NOVEMBER 12, 2021
316-317
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: 43h 2m 8s
CCSL: A121
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05.100.255
GYROS: OFF
1200 RTLT 43h 2m 16s
0000 RTLT 43h 2m 24s
----- TLC (SHORT-FORM) -----

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

31 DSN COVERAGE
.....40.....
1425 |----- 63 [D] -----| 1835
.....60.....
.....10.....
.....40.....

32 DSN COVERAGE
0855 |----- 43 [D] -----| 1555
.....40.....
.....40.....

S/C 32
INITIAL CONDITIONS
RTLT: 35h 45m 20s
CCSL: B193
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF
1200 RTLT 35h 45m 30s
0000 RTLT 35h 45m 40s

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: NOV 12 NOV 13

ISSUE DATE: 10/27/21 09:29

PST:	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	
SATURDAY																										
NOVEMBER 13, 2021																										
317-318																										
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: 43h 2m 24s																										
CCSL: A121																										
FDSL: 11AF																										
TWNC: ON																										
SB: OFF																										
XB: LOW																										
PYR: .05.100.255																										
GYROS: OFF																										
FDS MODE																										
XB DATA RATE(MI)																										
CR-5T																										
160(32)																										
31 DSN COVERAGE																										
..... 40 40																										
0910 ----- 63 [D] ----- 1310																										
----- 60																										
32 DSN COVERAGE																										
..... 40 40																										
1150 ----- 43 [D] ----- 1550																										
..... 40																										
S/C 32																										
INITIAL CONDITIONS																										
RTLT: 35h 45m 40s																										
CCSL: B193																										
FDSL: 11AF																										
TWNC: ON																										
SB: OFF																										
XB: LOW																										
PYR: .05/.10/.25																										
GYROS: OFF																										
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:																		NOV 13					NOV 14			

ISSUE DATE: 10/27/21 09:29

PST:	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	
SUNDAY NOVEMBER 14, 2021 318-319	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: 43h 2m 40s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05.100.255 GYROS: OFF	1200 RTLT 43h 2m 48s											0000 RTLT 43h 2m 56s														
FDS MODE XB DATA RATE(MI)												CR-5T 160(32)														
31 DSN COVERAGE	40											10														
	1200 ----- 63 [D] ----- 1600											0525 ----- 43 [D] -----														
	60											40														
32 DSN COVERAGE	1040 ----- 43 [D] ----- 1550											34 [DAR] 0700 35 [DA] 0700														
	40											40														
S/C 32 INITIAL CONDITIONS RTLT: 35h 46m 0s CCSL: B193 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 35h 46m 10s											0000 RTLT 35h 46m 20s														
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:	NOV 14											NOV 15														

ISSUE DATE: 10/27/21 09:29

PST: 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

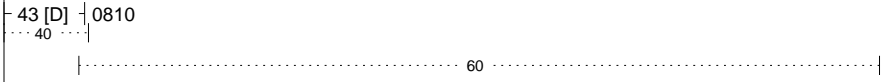
MONDAY
NOVEMBER 15, 2021
319-320
UTC: 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7

S/C 31
INITIAL CONDITIONS
RTLTL: 43h 2m 56s
CCSL: A121
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05.100.255
GYROS: OFF

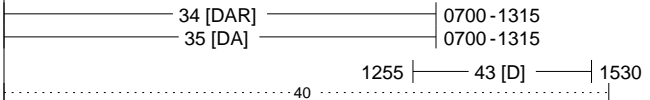
1200 RTLTL 43h 3m 4s

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

31 DSN COVERAGE



32 DSN COVERAGE



S/C 32
INITIAL CONDITIONS
RTLTL: 35h 46m 20s
CCSL: B193
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF

1200 RTLTL 35h 46m 30s

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: NOV 15 Page 19 of 19 NOV 16