

VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: August 31, 2021

For the Period: 09/02/21 to 09/20/21 (21/245 – 21/263)



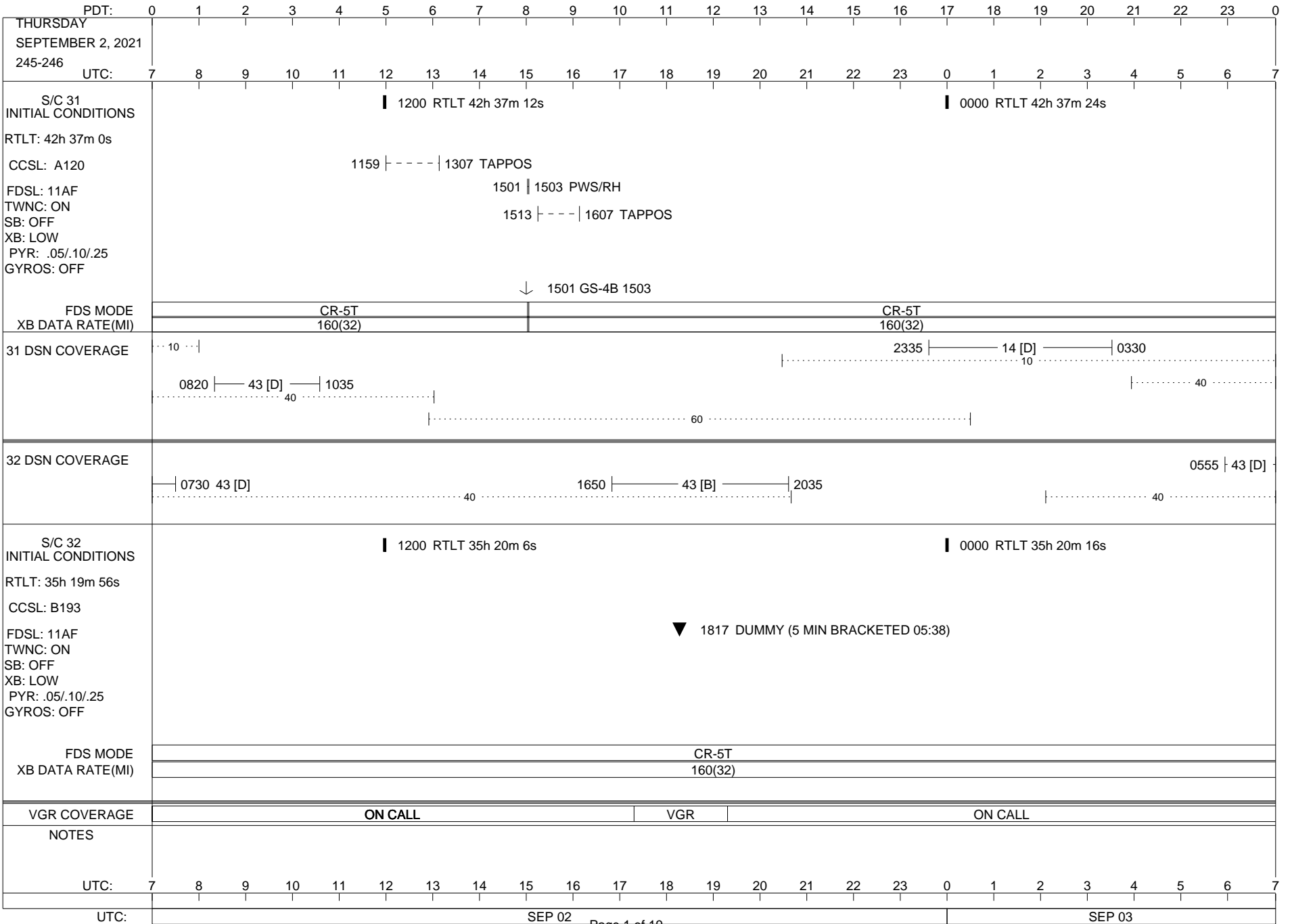
Posted at <https://voyager.jpl.nasa.gov/mission/status/>

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: 08/31/21 15:40



ISSUE DATE: 08/31/21 15:40

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
SEPTEMBER 3, 2021
246-247

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 37m 24s
CCSL: A120
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF

1200 RTLT 42h 37m 36s

0000 RTLT 42h 37m 48s

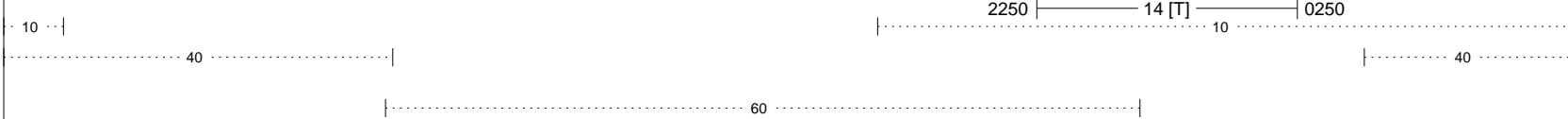
▼ 0005 CCS DIAG (18:43)

U/L 0030 | - | ----- TLC (SHORT-FORM) -----

FDS MODE
XB DATA RATE(MI)

CR-5T
160(32)

31 DSN COVERAGE



32 DSN COVERAGE



S/C 32
INITIAL CONDITIONS
RTLT: 35h 20m 16s
CCSL: B193
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF

1200 RTLT 35h 20m 26s

0000 RTLT 35h 20m 36s

FDS MODE
XB DATA RATE(MI)

CR-5T
160(32)

VGR COVERAGE

ON CALL

VGR

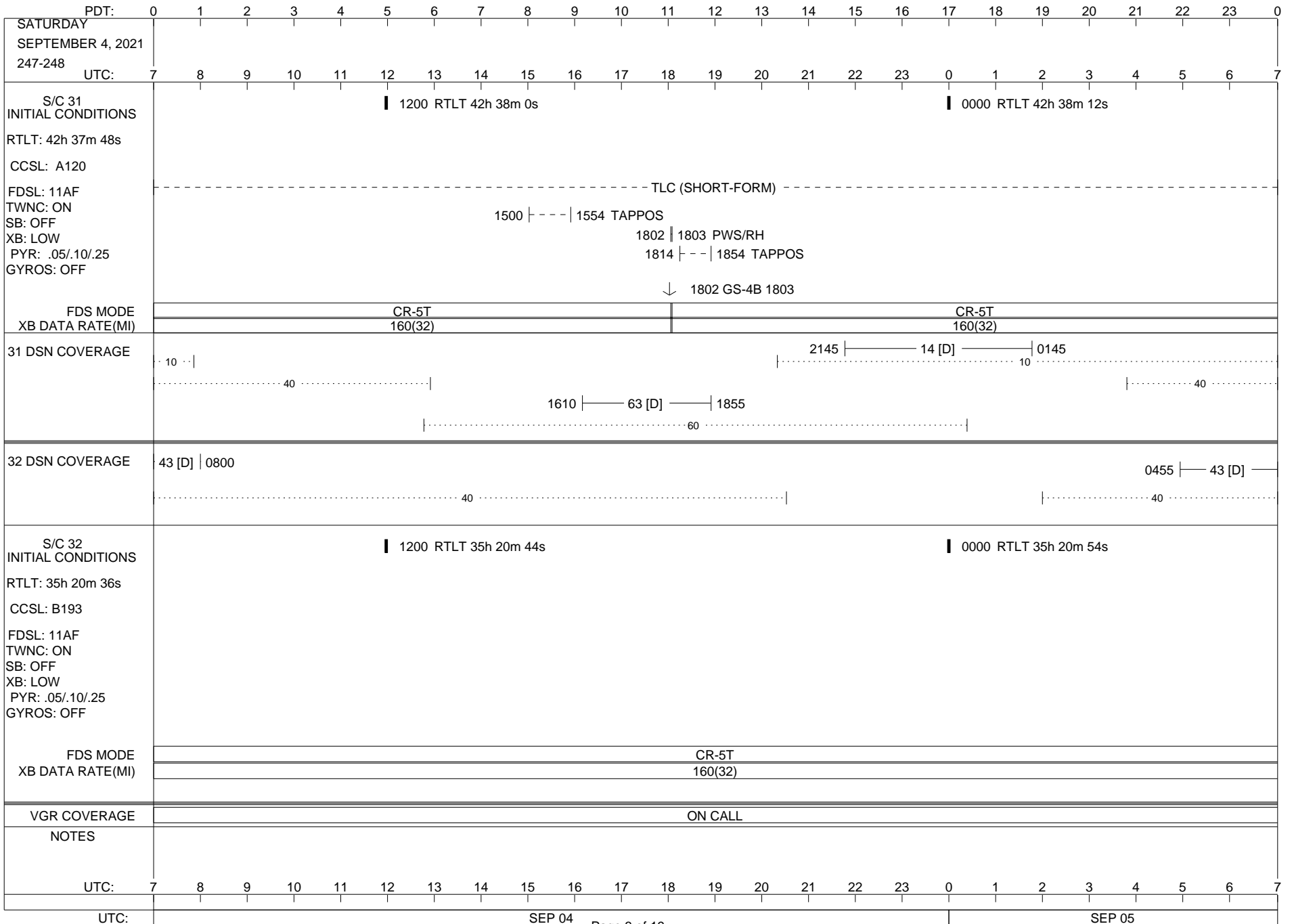
ON CALL

NOTES

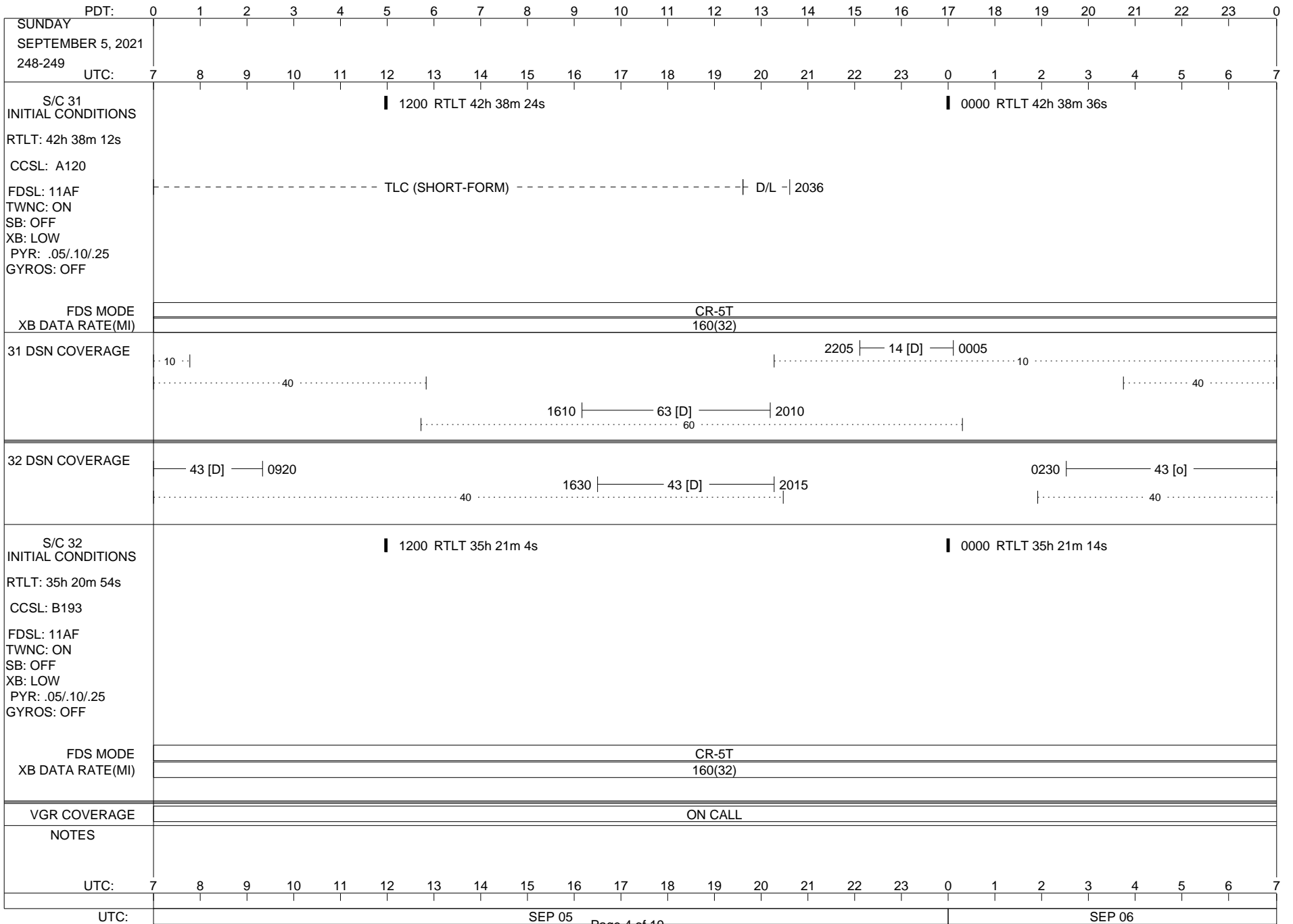
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UTC: SEP 03 Page 2 of 19 SEP 04

ISSUE DATE: 08/31/21 15:40



ISSUE DATE: 08/31/21 15:40



ISSUE DATE: 08/31/21 15:40

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 SEPTEMBER 6, 2021 249-250																											
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 38m 36s CCSL: A120 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 10 40 1240 ----- 63 [D] ----- 1640 60 10 40														
32 DSN COVERAGE	0730 43 [o] 40 40 43 [D] 0630														
S/C 32 INITIAL CONDITIONS RTLT: 35h 21m 14s 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														
NOTES	JPL HOLIDAY!																										
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:	SEP 06														SEP 07												

ISSUE DATE: 08/31/21 15:40

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																												
SEPTEMBER 7, 2021																												
250-251																												
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 42h 39m 10s												0000 RTLT 42h 39m 22s														
RTLT: 42h 38m 58s																												
CCSL: A120																												
FDSL: 11AF		0825 0826 PWS/RH																										
TWNC: ON																												
SB: OFF																												
XB: LOW																												
PYR: .05/.10/.25																												
GYROS: OFF																												
↓ 0825 GS-4B 0826																												
FDS MODE		CR-5T												CR-5T														
XB DATA RATE(MI)		160(32)												160(32)														
31 DSN COVERAGE		10 10																										
		0820 ----- 43 [D] ----- 1240 40																										
	 60 2010 ----- 63 [D] ----- 0010																										
32 DSN COVERAGE		0730 43 [D] 40 1340 ----- 43 [B] ----- 2005 40																										
S/C 32 INITIAL CONDITIONS		1200 RTLT 35h 21m 44s												0000 RTLT 35h 21m 54s														
RTLT: 35h 21m 34s		COMMAND MORATORIUM 0544 -----																										
CCSL: B193																												
FDSL: 11AF		▼ 1717 DUMMY (5 MIN BRACKETED 04:39)																										
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:		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:		SEP 07															SEP 08											

ISSUE DATE: 08/31/21 15:40

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
 SEPTEMBER 8, 2021
 251-252 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 39m 22s
 CCSL: A120
 FDSL: 11AF
 TWNC: ON
 SB: OFF
 XB: LOW
 PYR: .05/.10/.25
 GYROS: OFF

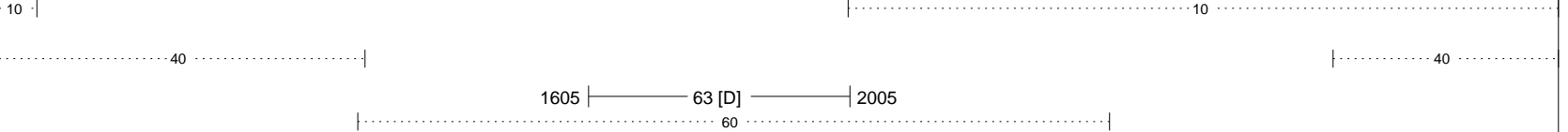
1200 RTLT 42h 39m 34s

0000 RTLT 42h 39m 46s

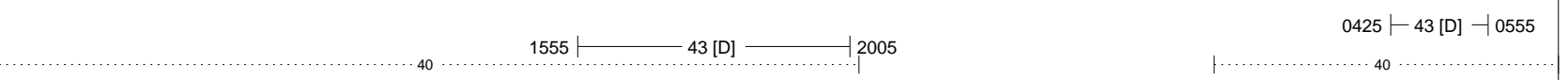
FDS MODE
 XB DATA RATE(MI)

CR-5T
 160(32)

31 DSN COVERAGE



32 DSN COVERAGE



S/C 32
 INITIAL CONDITIONS
 RTLT: 35h 21m 54s
 CCSL: B193
 FDSL: 11AF
 TWNC: ON
 SB: OFF
 XB: LOW
 PYR: .05/.10/.25
 GYROS: OFF

1200 RTLT 35h 22m 4s

0000 RTLT 35h 22m 14s

----- COMMAND MORATORIUM -----

1633 | | 1649 SHUNT POWER TEST

↓ 1633 CR-5T 1649

FDS MODE
 XB DATA RATE(MI)

CR-5T
 160(32)

CR-5T
 160(32)

VGR COVERAGE

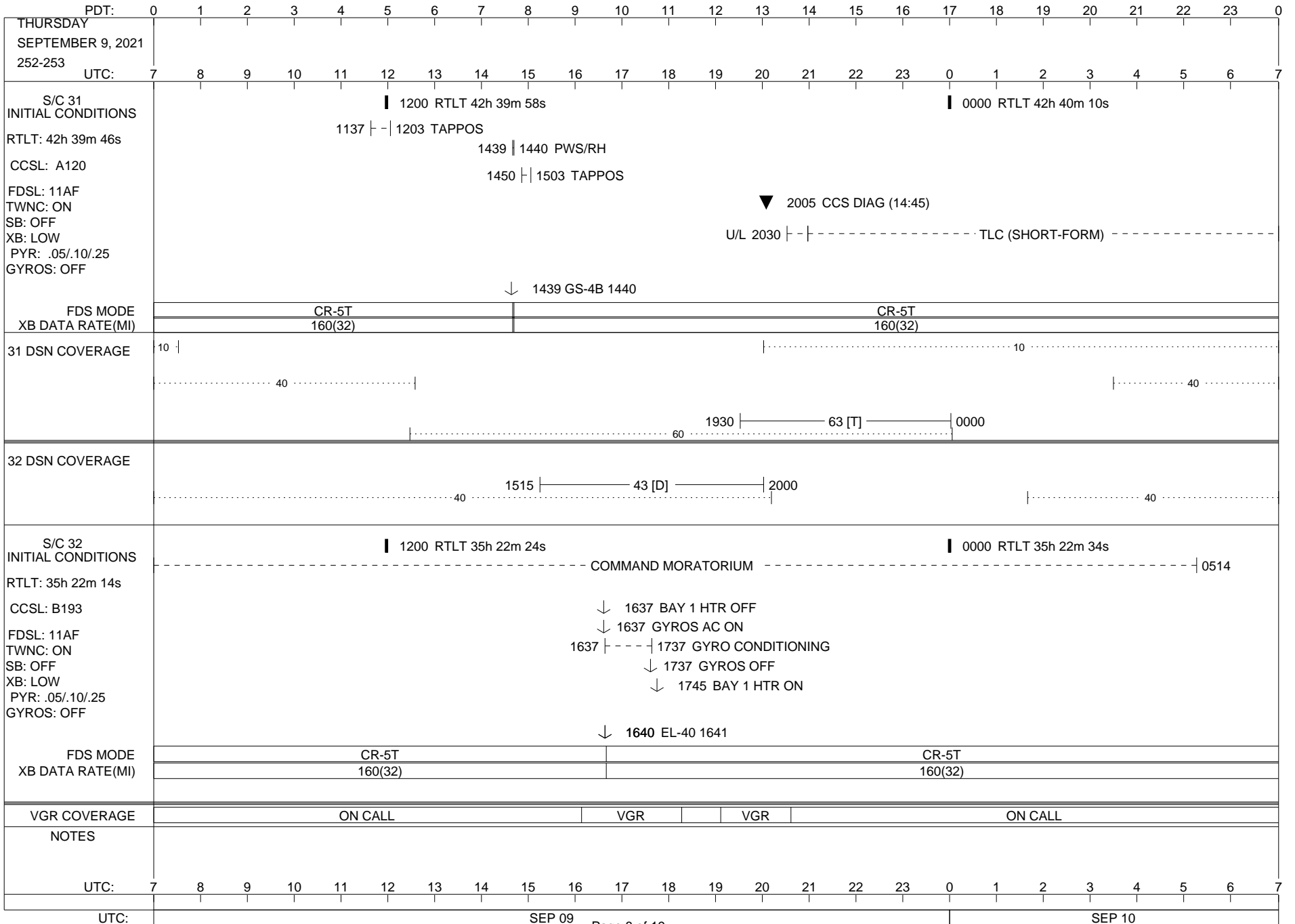
ON CALL

NOTES

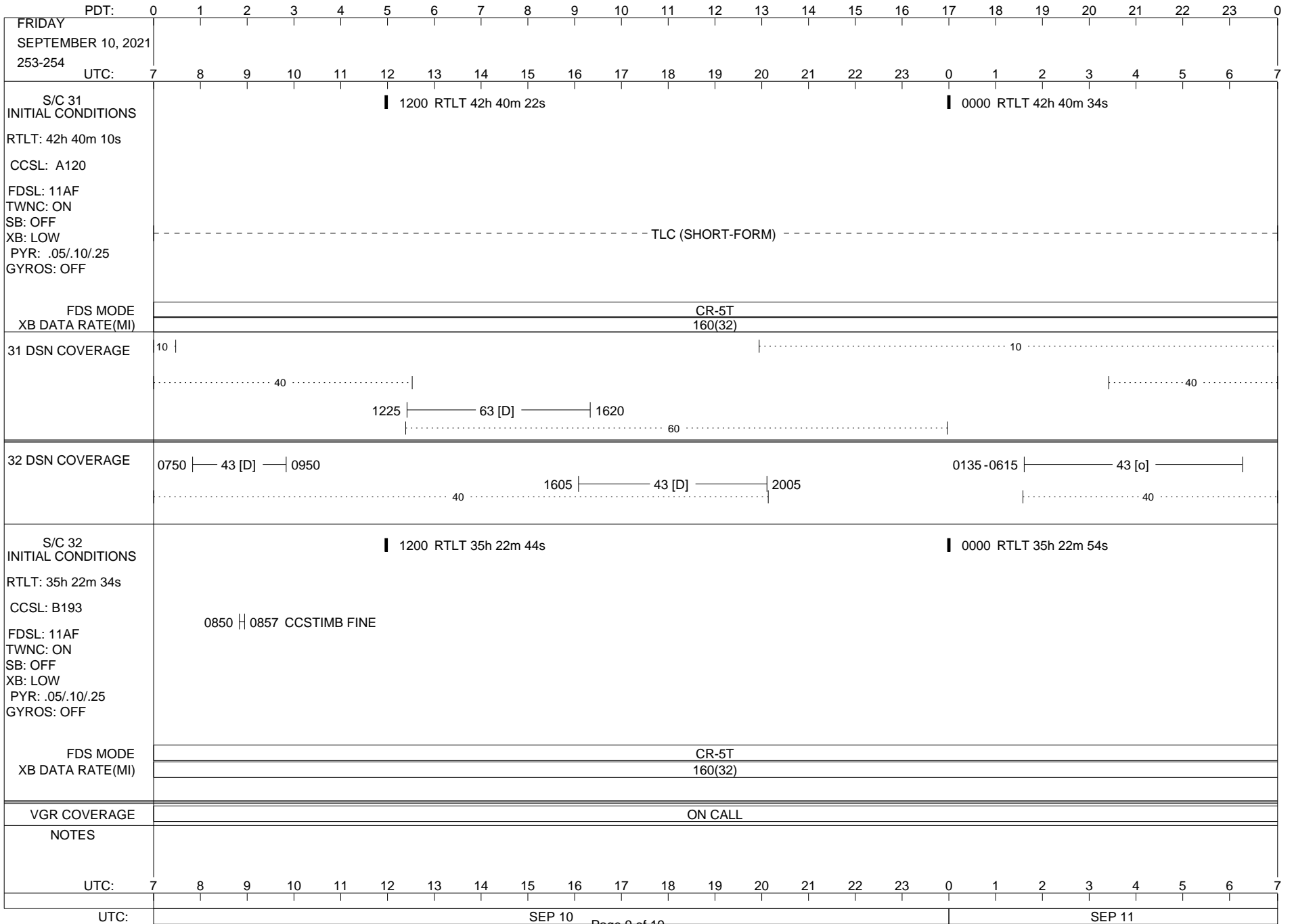
UTC: 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7

UTC: SEP 08 Page 7 of 19 SEP 09

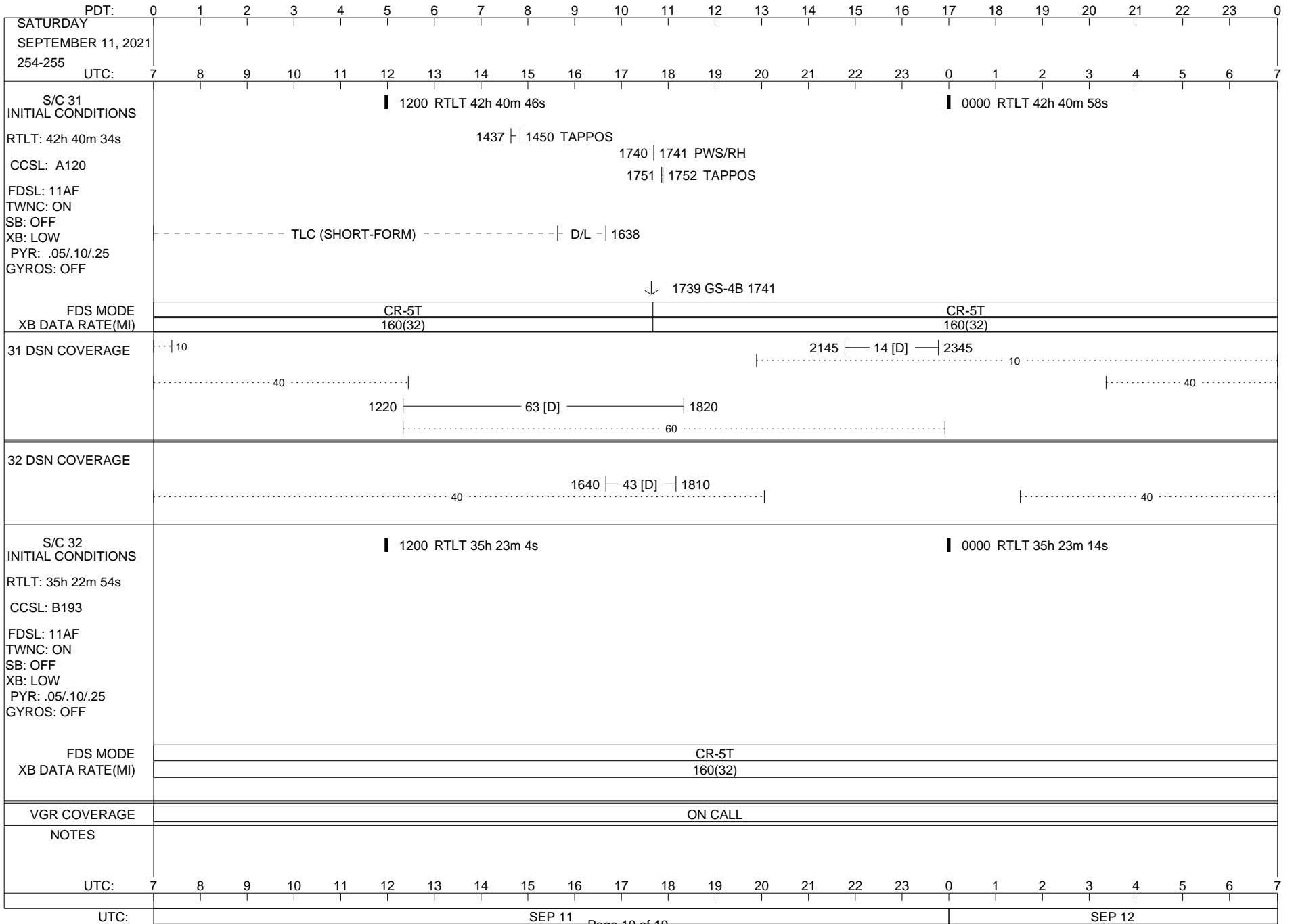
ISSUE DATE: 08/31/21 15:40



ISSUE DATE: 08/31/21 15:40



ISSUE DATE: 08/31/21 15:40



ISSUE DATE: 08/31/21 15:40

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 SEPTEMBER 12, 2021 255-256																											
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 40m 58s CCSL: A120 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																											
32 DSN COVERAGE																											
S/C 32 INITIAL CONDITIONS RTLT: 35h 23m 14s 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													
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:	SEP 12													SEP 13													

ISSUE DATE: 08/31/21 15:40

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 SEPTEMBER 13, 2021 256-257	
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: 42h 41m 20s CCSL: A120 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLT 42h 41m 32s</p> <p>0000 RTLT 42h 41m 44s</p>
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)
31 DSN COVERAGE	<p>10 ----- 2300 ----- 14 [D] ----- 0300</p> <p>40 ----- 60 ----- 40</p>
32 DSN COVERAGE	<p>40 ----- 1600 ----- 43 [H1] ----- 1955</p> <p>40 ----- 40</p>
S/C 32 INITIAL CONDITIONS RTLTL: 35h 23m 34s CCSL: B193 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLT 35h 23m 46s</p> <p>0000 RTLT 35h 23m 56s</p> <p>1814 CCSB FULMRO (05:38)</p>
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)
VGR COVERAGE	ON CALL VGR ON CALL
NOTES	[1] DSS-43 HP TXR DRV OFF <= 18:27
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: SEP 13 Page 12 of 19 SEP 14	

ISSUE DATE: 08/31/21 15:40

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 SEPTEMBER 14, 2021 257-258																									
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 41m 44s CCSL: A120 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 42h 41m 56s												0000 RTLT 42h 42m 8s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	10 40												2210 ----- 14 [D] ----- 0350 ----- 10 ----- ----- 60 -----												
32 DSN COVERAGE	1035 ----- 36 [DAR] ----- 1420 1035 ----- 43 [DA] ----- 1950												0500 ----- 43 [D] ----- ----- 40 -----												
S/C 32 INITIAL CONDITIONS RTLT: 35h 23m 56s CCSL: B193 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 24m 6s												0000 RTLT 35h 24m 16s												
FDS MODE	CR-5T				EL-40				CR-5T				CR-5T				CR-5T				EL-40				
XB DATA RATE(MI)	160(32)				40(30)				160(32)				160(32)				160(32)				40(30)				
VGR COVERAGE	ON CALL				VGR				ON CALL				VGR				ON CALL				VGR				
NOTES	[1] S/C 32=EL-40 XB=40(30) @ 1105 [2] S/C 32=CR-5T XB=160(32) @ 1208 [3] S/C 32=EL-40 XB=40(30) @ 1741												[4] S/C 32=CR-5T XB=160(32) @ 1744 [5] S/C 32=EL-40 XB=40(30) @ 1841 [6] S/C 32=CR-5T XB=160(32) @ 1844 [7] S/C 32=EL-40 XB=40(30) @ 0538												
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:	SEP 14														SEP 15										

ISSUE DATE: 08/31/21 15:40

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
SEPTEMBER 15, 2021
258-259 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: 42h 42m 8s
CCSL: A120
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF

1200 RTLTL 42h 42m 20s

0000 RTLTL 42h 42m 32s

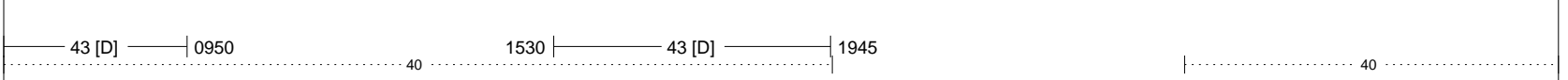
FDS MODE
XB DATA RATE(MI)

CR-5T
160(32)

31 DSN COVERAGE



32 DSN COVERAGE



S/C 32
INITIAL CONDITIONS
RTLTL: 35h 24m 16s
CCSL: B193
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF

1200 RTLTL 35h 24m 26s

0000 RTLTL 35h 24m 38s

0011 |----- COMMAND MORATORIUM -----

0712 CCSB FULMRO

0713 CR-5T

FDS MODE
XB DATA RATE(MI)

CR-5T
160(32)

VGR COVERAGE

VGR

ON CALL

NOTES

[1] S/C 32=CR-5T XB=160(32) @ 0713

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: SEP 15 Page 14 of 19 SEP 16

ISSUE DATE: 08/31/21 15:40

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
SEPTEMBER 16, 2021
259-260

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 42m 32s
CCSL: A120
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF

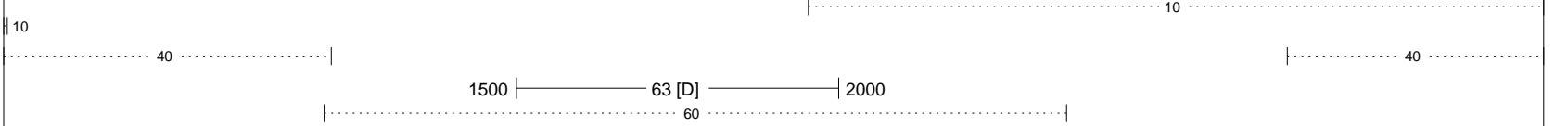
1200 RTLT 42h 42m 44s

0000 RTLT 42h 42m 56s

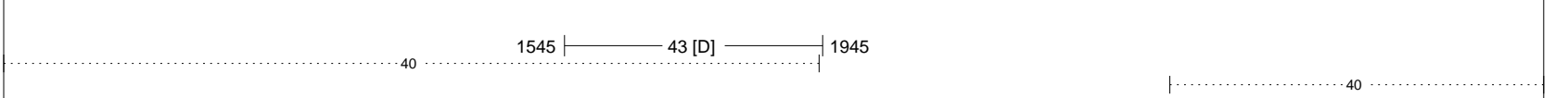
FDS MODE
XB DATA RATE(MI)

CR-5T
160(32)

31 DSN COVERAGE



32 DSN COVERAGE



S/C 32
INITIAL CONDITIONS
RTLT: 35h 24m 38s
CCSL: B193
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF

1200 RTLT 35h 24m 48s

0000 RTLT 35h 24m 58s

----- COMMAND MORATORIUM -----

FDS MODE
XB DATA RATE(MI)

CR-5T
160(32)

VGR COVERAGE

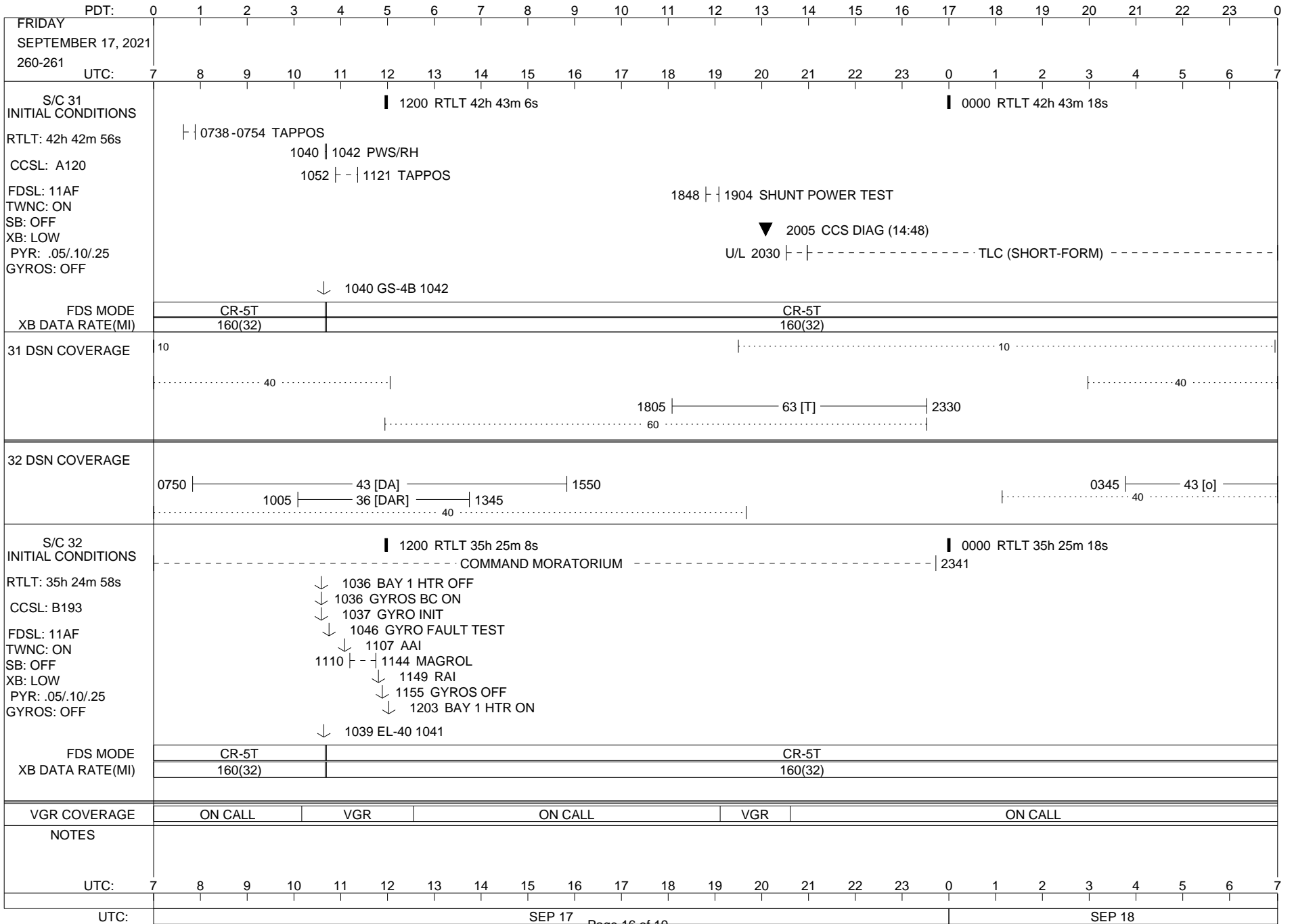
ON CALL

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: SEP 16 Page 15 of 19 SEP 17

ISSUE DATE: 08/31/21 15:40



ISSUE DATE: 08/31/21 15:40

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
SEPTEMBER 18, 2021
261-262
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: 42h 43m 18s
CCSL: A120
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF

1200 RTLTL 42h 43m 30s

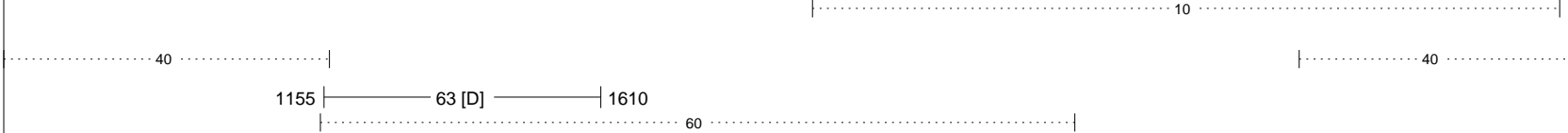
0000 RTLTL 42h 43m 42s

----- TLC (SHORT-FORM) -----

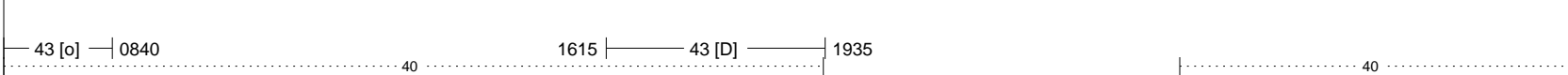
FDS MODE
XB DATA RATE(MI)

CR-5T
160(32)

31 DSN COVERAGE



32 DSN COVERAGE



S/C 32
INITIAL CONDITIONS
RTLTL: 35h 25m 18s
CCSL: B193
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF

1200 RTLTL 35h 25m 30s

0000 RTLTL 35h 25m 40s

FDS MODE
XB DATA RATE(MI)

CR-5T
160(32)

VGR COVERAGE

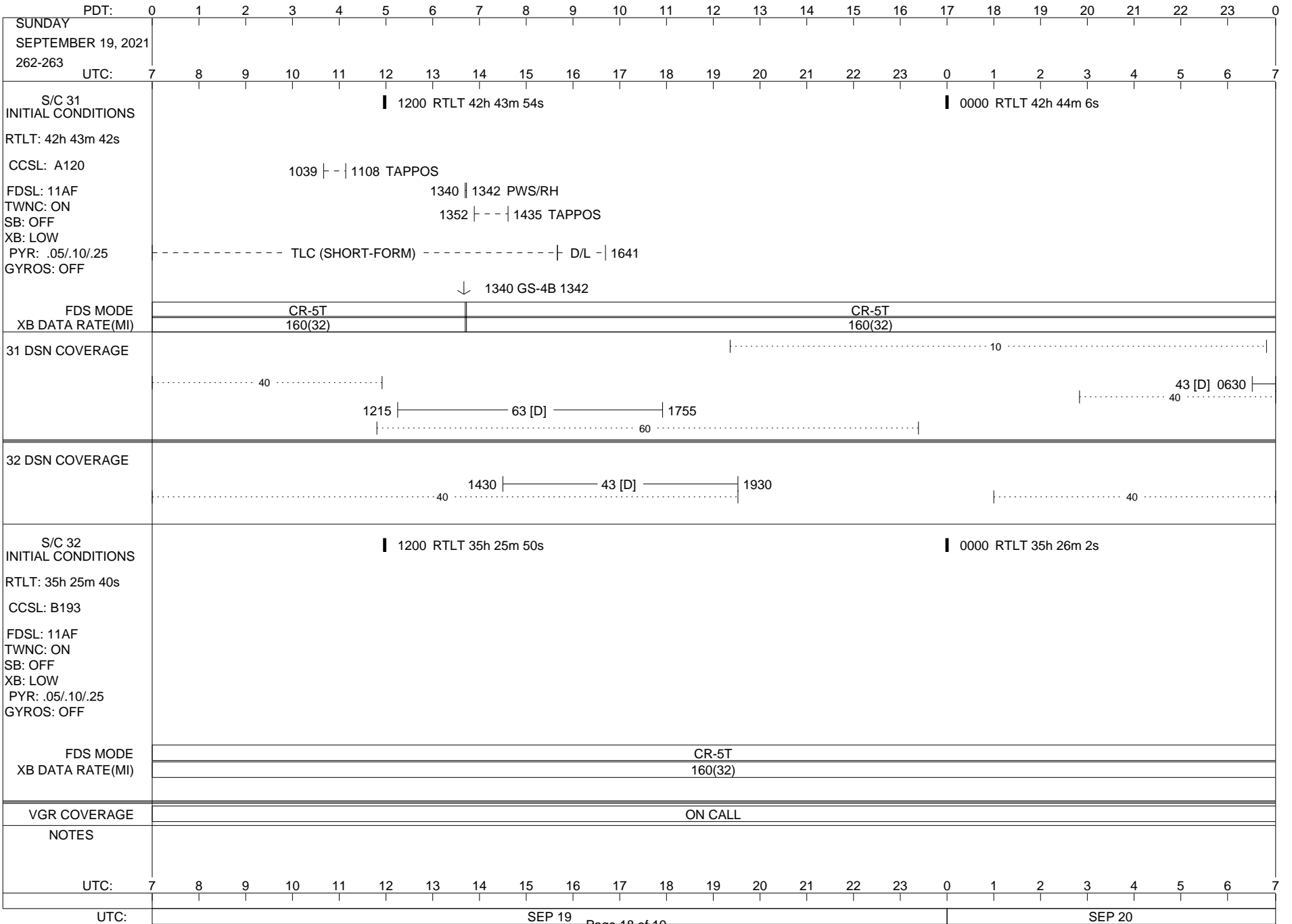
ON CALL

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: SEP 18 Page 17 of 19 SEP 19

ISSUE DATE: 08/31/21 15:40



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 SEPTEMBER 20, 2021 263-264																											
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 44m 6s CCSL: A120 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p style="text-align: center;">█ 1200 RTLT 42h 44m 18s</p>																										
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
31 DSN COVERAGE																											
32 DSN COVERAGE																											
S/C 32 INITIAL CONDITIONS RTLT: 35h 26m 2s CCSL: B193 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p style="text-align: center;">█ 1200 RTLT 35h 26m 12s</p>																										
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:	SEP 20													SEP 21													