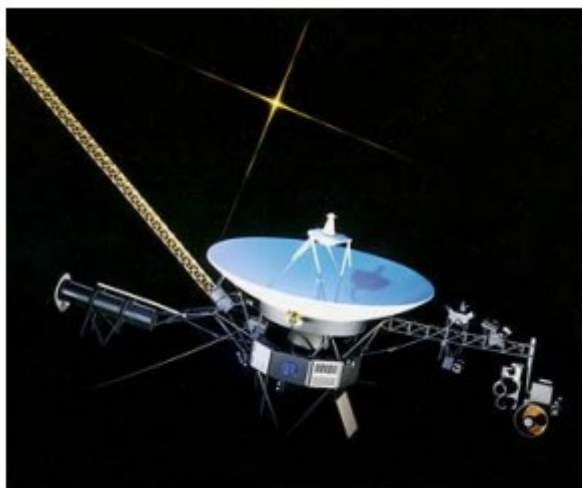


# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: August 21, 2019

For the Period: 08/22/19 to 09/09/19 (19/234 – 19/252)

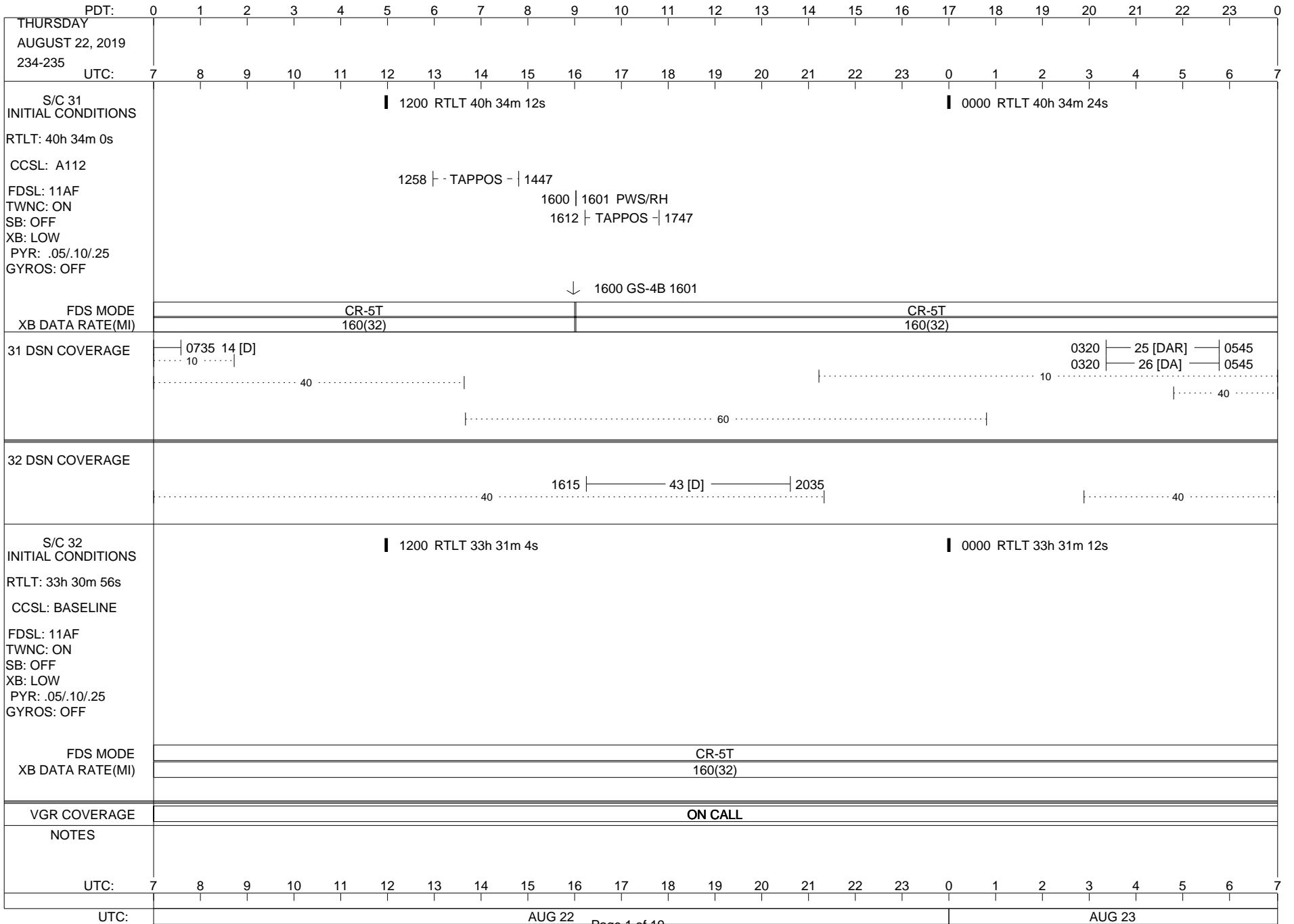


Posted at <https://voyager.jpl.nasa.gov/mission/status/>

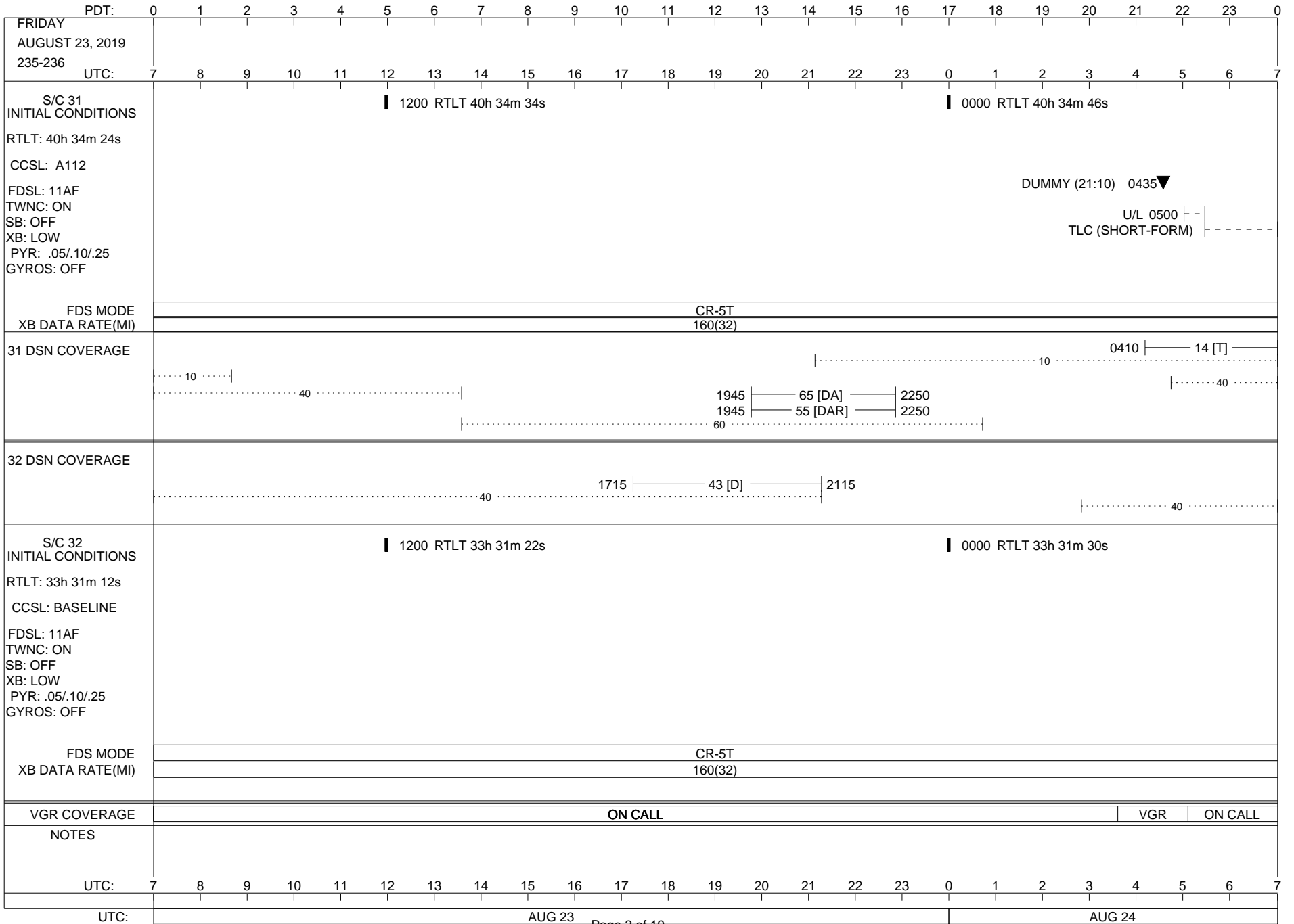
**LEGEND:**

▽ = 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

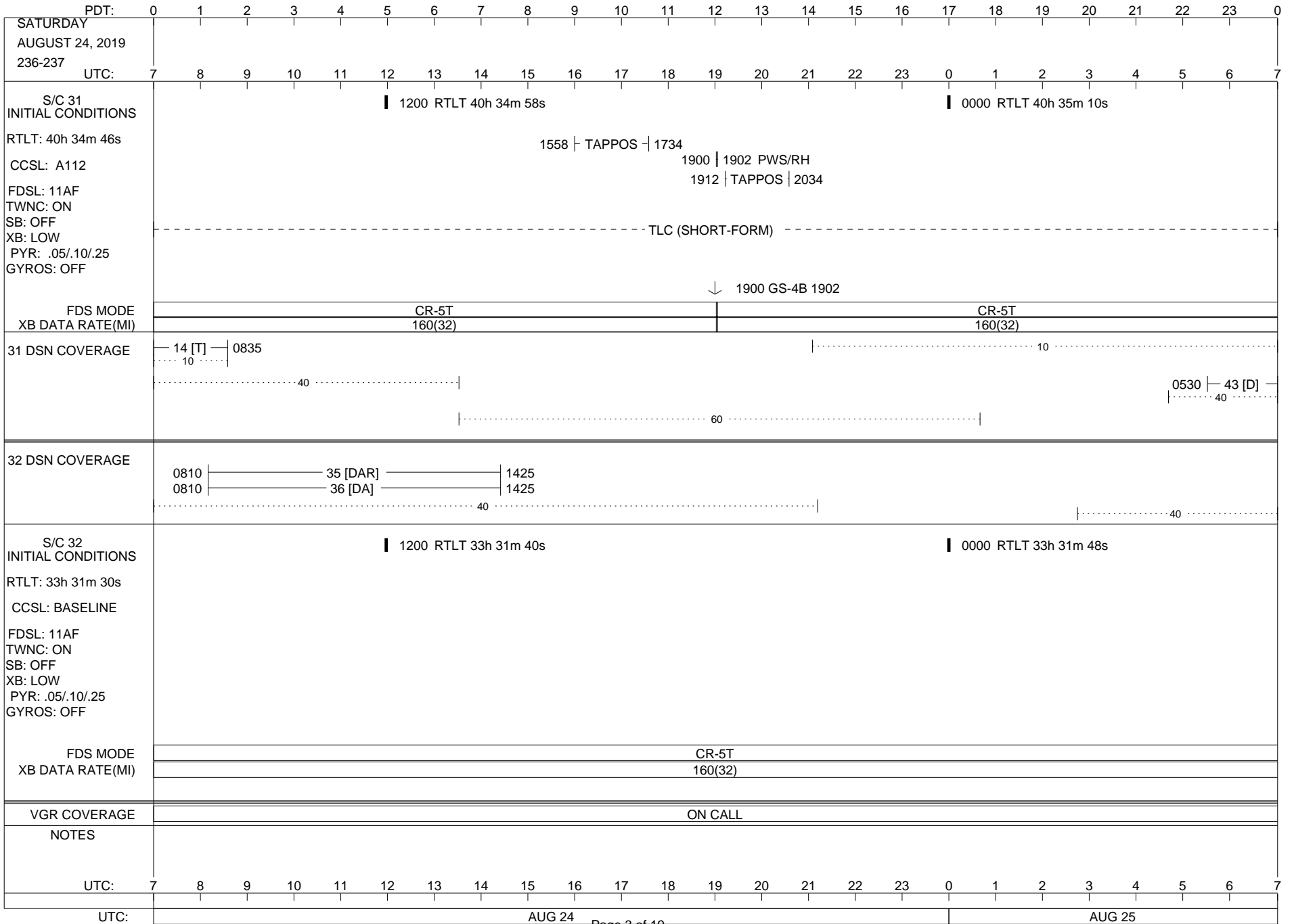
02/27/19



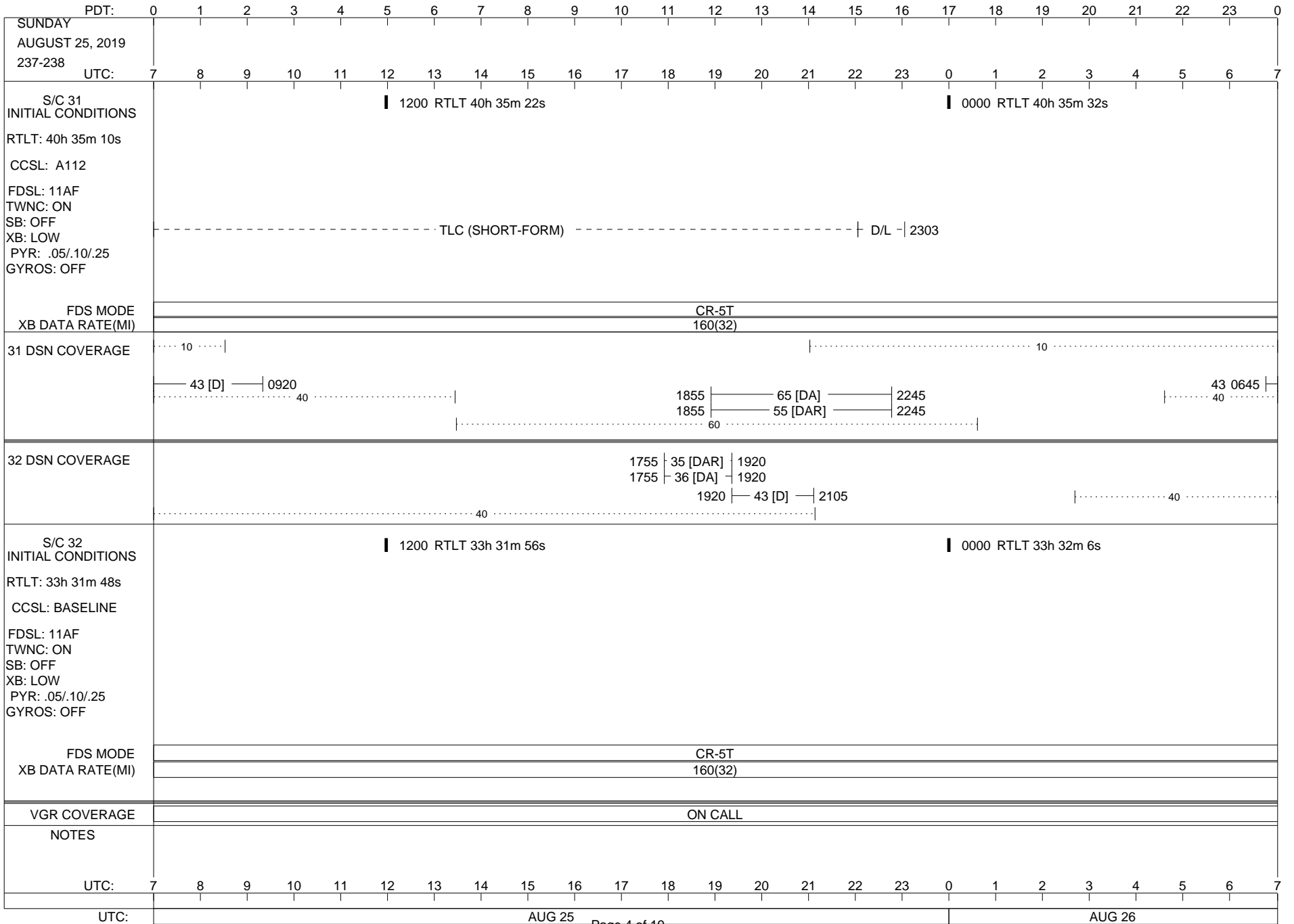
ISSUE DATE: 08/21/19 09:08



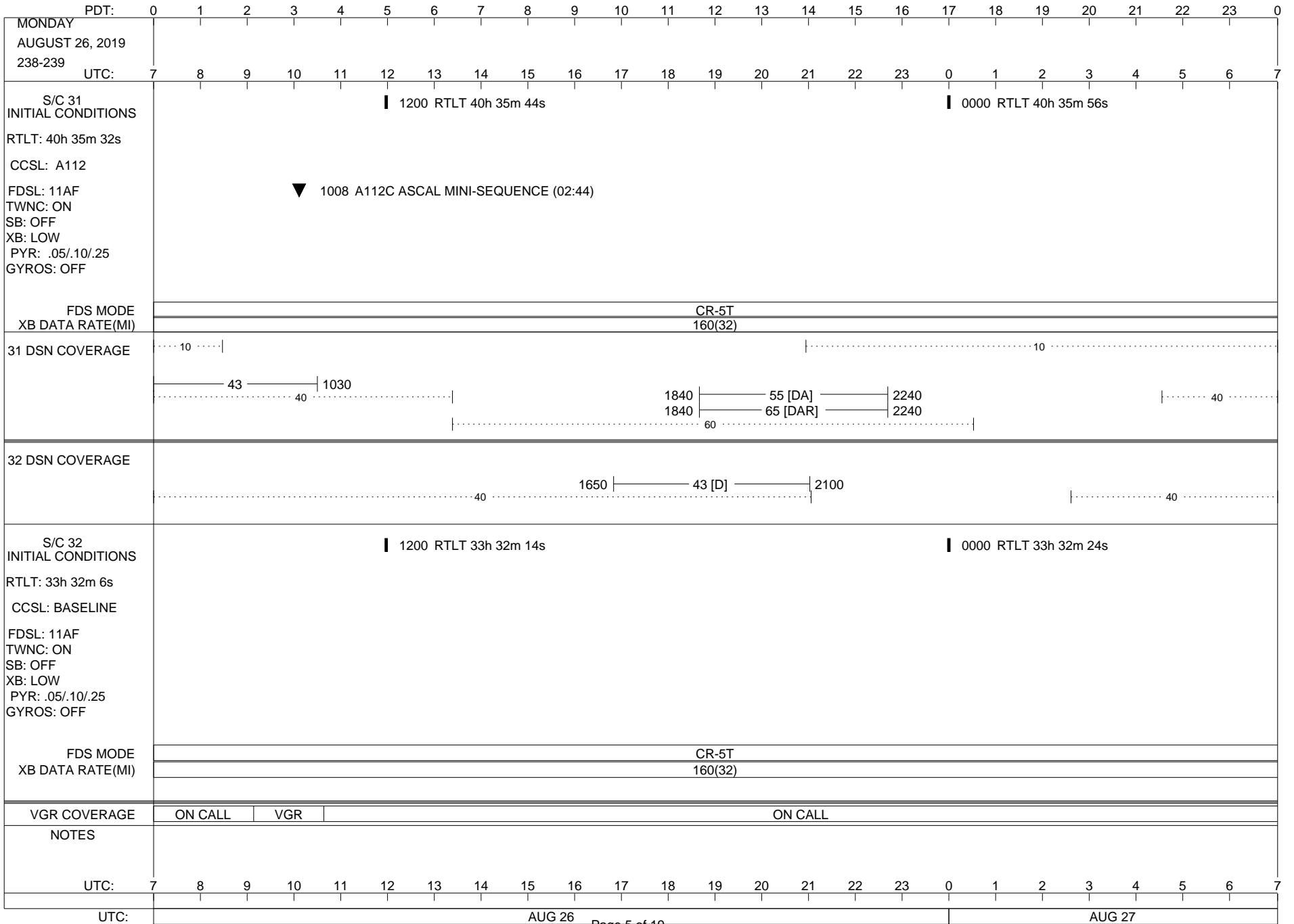
ISSUE DATE: 08/21/19 09:08



ISSUE DATE: 08/21/19 09:08



ISSUE DATE: 08/21/19 09:08



ISSUE DATE: 08/21/19 09:08

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 AUGUST 27, 2019 239-240																									
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 35m 56s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 36m 8s												0000 RTLT 40h 36m 20s												
	0924   0925 PWS/RH												* 0258    0302 A112C CHKSUM												
	↓ 0924 GS-4B 0925																								
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	.....10 .....										0230  ----- 14 [D] -----														
	0840   43 [D]   0940										10 .....40 .....														
	.....40 .....										.....60 .....														
32 DSN COVERAGE	1340  ----- 43 [D] -----												1740												
	.....40 .....												.....40 .....												
S/C 32 INITIAL CONDITIONS RTLT: 33h 32m 24s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 32m 34s												0000 RTLT 33h 32m 42s												
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:	AUG 27												AUG 28												

ISSUE DATE: 08/21/19 09:08

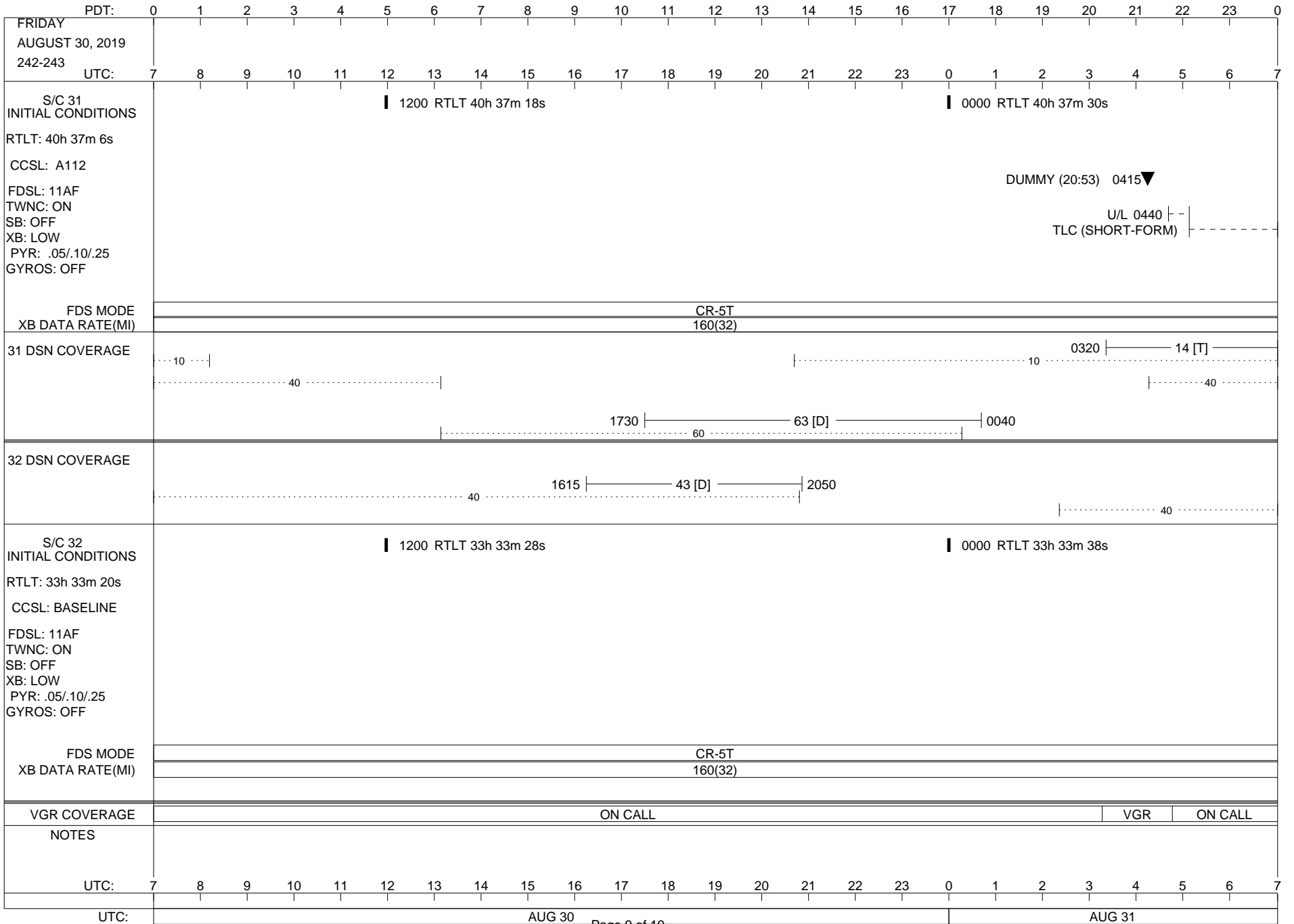
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WEDNESDAY AUGUST 28, 2019 240-241																									
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLT: 40h 36m 20s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 36m 32s												0000 RTLT 40h 36m 42s												
FDS MODE	CR-5T																								
XB DATA RATE(MI)	160(32)																								
31 DSN COVERAGE	0730 14 [D]   ..... 10 ..... ..... 10 .....												..... 40 .....   1825  ----- 65 [DAR] -----  2225 1825  ----- 54 [DA] -----  2225 ..... 60 .....												
32 DSN COVERAGE	..... 40 .....   1605  ----- 43 [D] -----  2010												..... 40 .....												
S/C 32 INITIAL CONDITIONS RTLT: 33h 32m 42s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 32m 52s												0000 RTLT 33h 33m 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:	AUG 28												AUG 29												



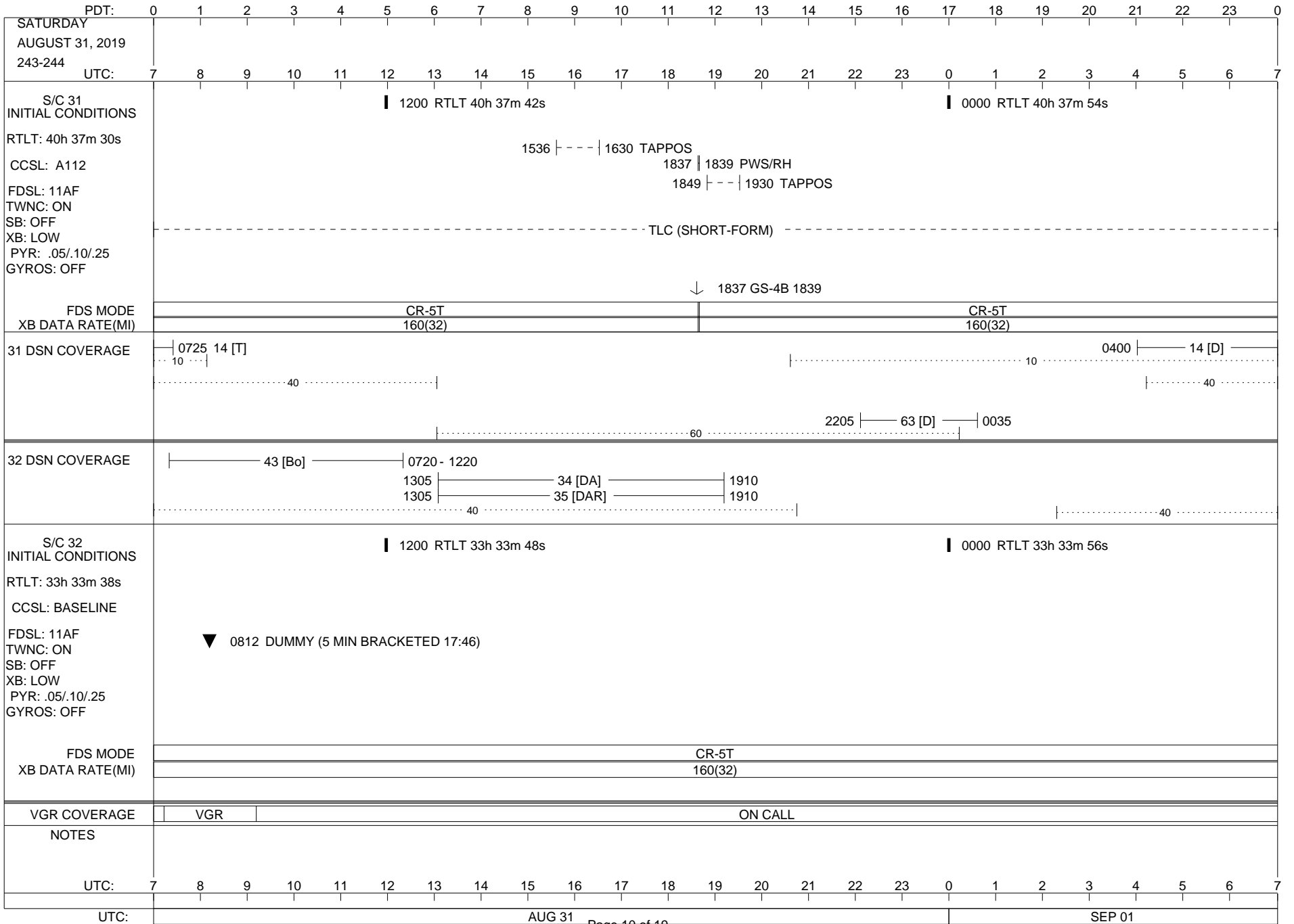
ISSUE DATE: 08/21/19 09:08

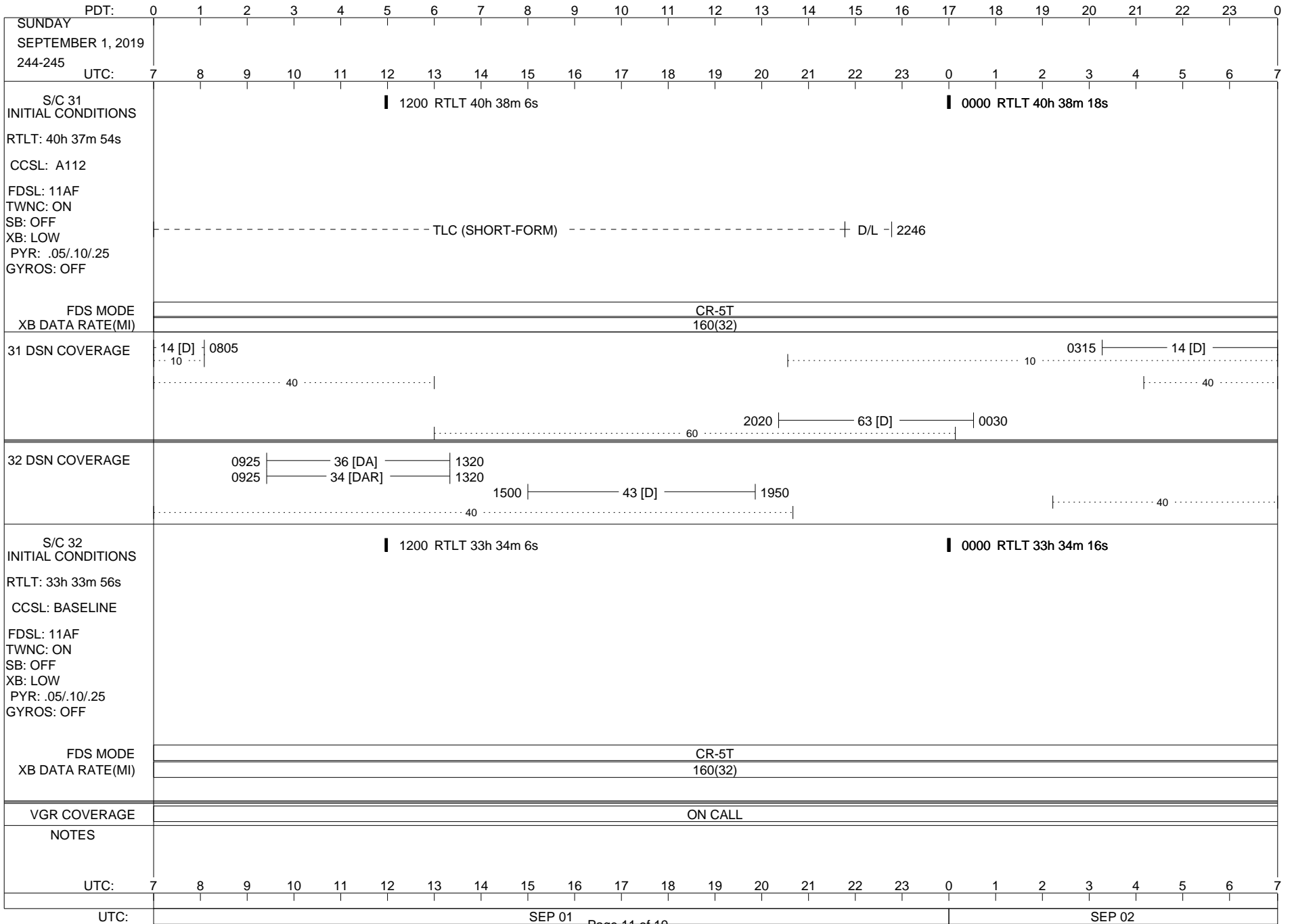
PDT:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	
THURSDAY AUGUST 29, 2019 241-242																										
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
S/C 31 INITIAL CONDITIONS RTLTL: 40h 36m 42s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 40h 36m 54s 1235  -----  1343 TAPPOS 1537   1539 PWS/RH 1549  ---  1643 TAPPOS ↓ 1537 GS-4B 1539												0000 RTLTL 40h 37m 6s START A112C MINI-SEQUENCE 0226↓ BAY 1 HTR OFF 0244↓ X/B HI POWER 0248↓ PYR=.05/.05/.05 DB 0308↓ SSB ASCAL 0312  ---  0345 PYR=.05/.10/.25 DB 0345↓ X/B LOW POWER 0356↓ BAY 1 HTR ON 0400↓ END A112C MINI-SEQUENCE 0426↓ EL-40 0252↓ ↓ 0348 CR-5T													
FDS MODE	CR-5T						CR-5T						EL-40		CR-5T											
XB DATA RATE(MI)	160(32)						160(32)						40(30)		160(32)											
31 DSN COVERAGE	..... 10 .....  ..... 40 .....  ..... 60 .....												0230 - 0615  -----  14 [D] -----  ..... 10 .....  ..... 40 .....													
32 DSN COVERAGE	..... 40 .....												..... 40 .....													
S/C 32 INITIAL CONDITIONS RTLTL: 33h 33m 0s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 33h 33m 10s												0000 RTLTL 33h 33m 20s													
FDS MODE	CR-5T																									
XB DATA RATE(MI)	160(32)																									
VGR COVERAGE	ON CALL												VGR		ON CALL											
NOTES	[1] S/C 31=EL-40 @ 0252 XB=40(30) [2] S/C 31=CR-5T @ 0348 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 29												AUG 30													

ISSUE DATE: 08/21/19 09:08



ISSUE DATE: 08/21/19 09:08





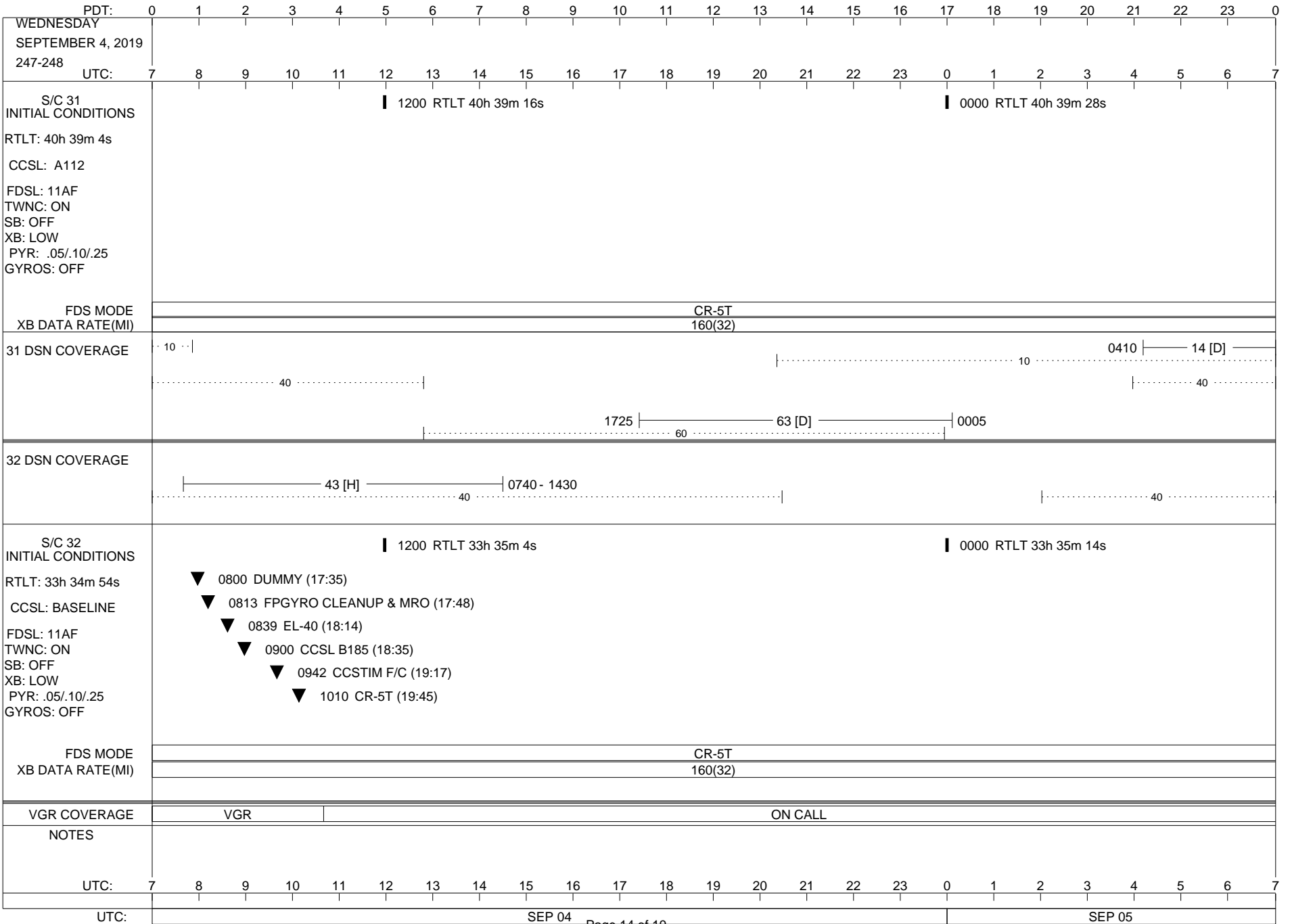
ISSUE DATE: 08/21/19 09:08

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 2, 2019 245-246																									
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 38m 18s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 38m 28s												0000 RTLT 40h 38m 40s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	14 [D]   0800 ..... 40 .....												0100   ..... 14 [D] ..... ..... 10 .....												
	..... 60 .....												..... 40 .....												
32 DSN COVERAGE	1415   ..... 35 [DAR] ..... 1900 1415   ..... 34 [DA] ..... 1900 ..... 40 .....												..... 40 .....												
S/C 32 INITIAL CONDITIONS RTLT: 33h 34m 16s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 34m 26s												0000 RTLT 33h 34m 34s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL												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 02												SEP 03												

ISSUE DATE: 08/21/19 09:08

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 3, 2019 246-247	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 38m 40s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 40h 38m 52s												█ 0000 RTLT 40h 39m 4s													
0901   0902 PWS/RH																										
↓ 0901 GS-4B 0902																										
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
31 DSN COVERAGE	0755 14 [D]												..... 10 .....													
	..... 40 .....												..... 40 .....													
	..... 60 .....												2230   63 [D]   0025													
32 DSN COVERAGE	..... 40 .....												1505   43 [D]   2015													
	..... 40 .....												..... 40 .....													
S/C 32 INITIAL CONDITIONS RTLT: 33h 34m 34s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 33h 34m 44s												█ 0000 RTLT 33h 34m 54s													
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 03												SEP 04													

ISSUE DATE: 08/21/19 09:08



ISSUE DATE: 08/21/19 09:08

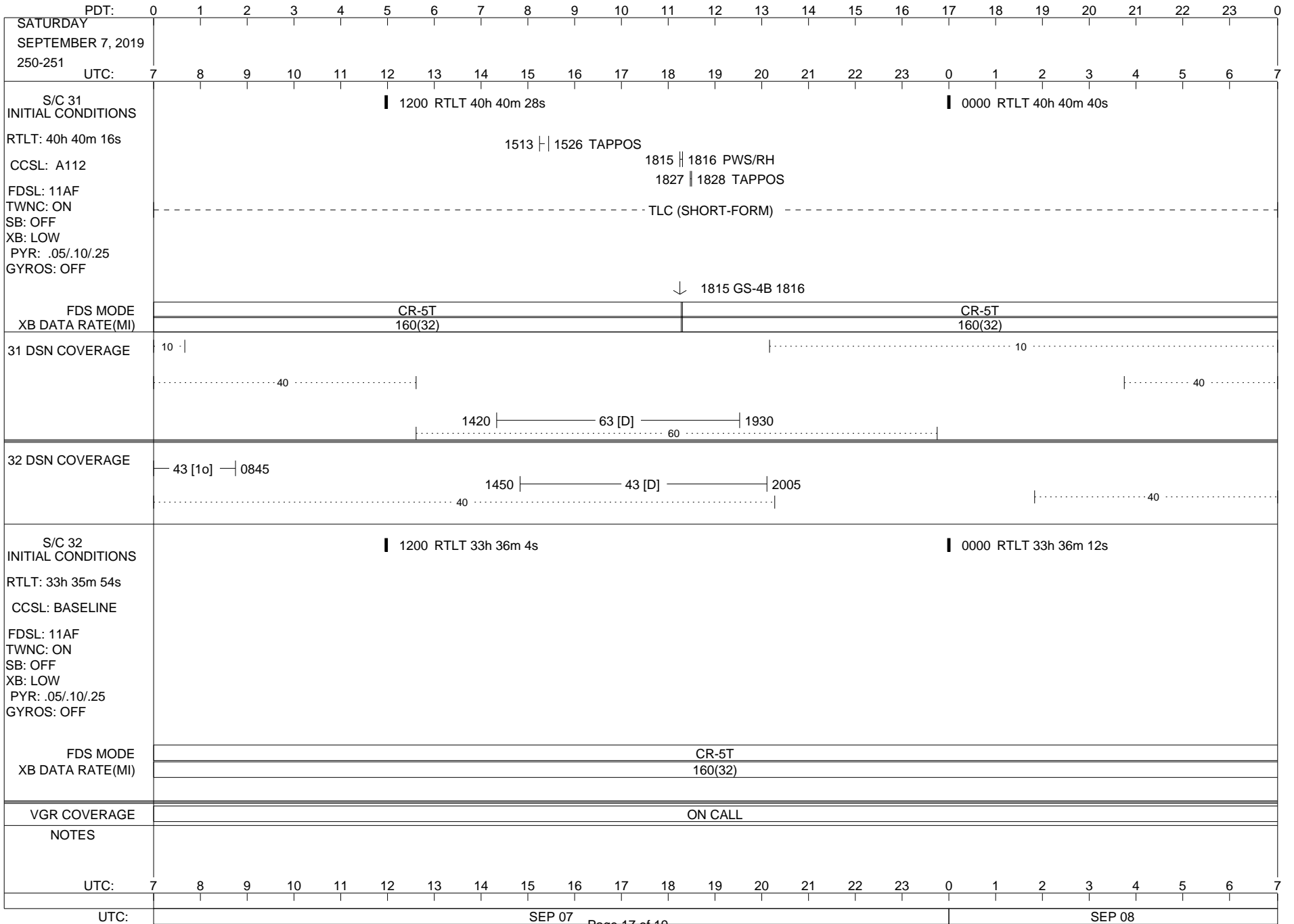
PDT:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0
THURSDAY SEPTEMBER 5, 2019 248-249																									
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLTL: 40h 39m 28s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLTL 40h 39m 40s</p> <p>0000 RTLTL 40h 39m 52s</p> <p>1213   -   1239 TAPPOS</p> <p>1515   1516 PWS/RH</p> <p>1526     1539 TAPPOS</p> <p>↓ 1514 GS-4B 1516</p>																								
FDS MODE	CR-5T											CR-5T													
XB DATA RATE(MI)	160(32)											160(32)													
31 DSN COVERAGE	<p>0745 14 [D]</p> <p>1500  -----  63 [D]   1900</p>																								
32 DSN COVERAGE	<p>1020  -----  43 [D]   2020</p> <p>35 [DA] 0630</p> <p>36 [DAR] 0630</p>																								
S/C 32 INITIAL CONDITIONS RTLTL: 33h 35m 14s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLTL 33h 35m 24s</p> <p>0000 RTLTL 33h 35m 34s</p> <p>1749 FPGYRO CLEANUP &amp; MRO</p> <p>1845   1849 B185 CHKSUM</p> <p>1918   1925 CCSTIM FINE</p> <p>1936   1939 CCSTIM COARSE</p> <p>EL-40 1815 ↓</p> <p>1946 CR-5T ↓</p>																								
FDS MODE	CR-5T							EL-40							CR-5T										
XB DATA RATE(MI)	160(32)							40(30)							160(32)										
VGR COVERAGE	ON CALL																								
NOTES	<p>[1] S/C 32=EL-40 @ 1815 XB=40(30)</p> <p>[2] SC 32=CR-5T @ 1946 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:	SEP 05														SEP 06										



ISSUE DATE: 08/21/19 09:08

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 6, 2019 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: 40h 39m 52s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLT 40h 40m 4s												0000 RTLT 40h 40m 16s															
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)															
31 DSN COVERAGE																													
32 DSN COVERAGE																													
S/C 32 INITIAL CONDITIONS RTLT: 33h 35m 34s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLT 33h 35m 44s												0000 RTLT 33h 35m 54s															
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)															
VGR COVERAGE		ON CALL												VGR						ON CALL									
NOTES		[1] B185 BACKUP U/L SUPPORT																											
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												Page 16 of 19						SEP 07									

ISSUE DATE: 08/21/19 09:08



ISSUE DATE: 08/21/19 09:08

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 8, 2019 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 RTLTL: 40h 40m 40s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 40h 40m 50s												0000 RTLTL 40h 41m 2s													
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
31 DSN COVERAGE	10												10													
	40												40													
	1420   63 [D]   1820												60													
32 DSN COVERAGE	1345   43 [D]   1935												40													
S/C 32 INITIAL CONDITIONS RTLTL: 33h 36m 12s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 33h 36m 22s												0000 RTLTL 33h 36m 34s													
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 08													SEP 09												

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 9, 2019 252-253																											
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 41m 2s CCSL: A112 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <span style="font-size: 2em;">█</span> 1200 RTLT 40h 41m 14s         </div>																										
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
31 DSN COVERAGE																											
32 DSN COVERAGE																											
S/C 32 INITIAL CONDITIONS RTLT: 33h 36m 34s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <span style="font-size: 2em;">█</span> 1200 RTLT 33h 36m 44s         </div>																										
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 09													SEP 10													