

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: September 19, 2018

For the Period: 09/20/18 to 10/08/18 (18/263 – 18/281)

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.	

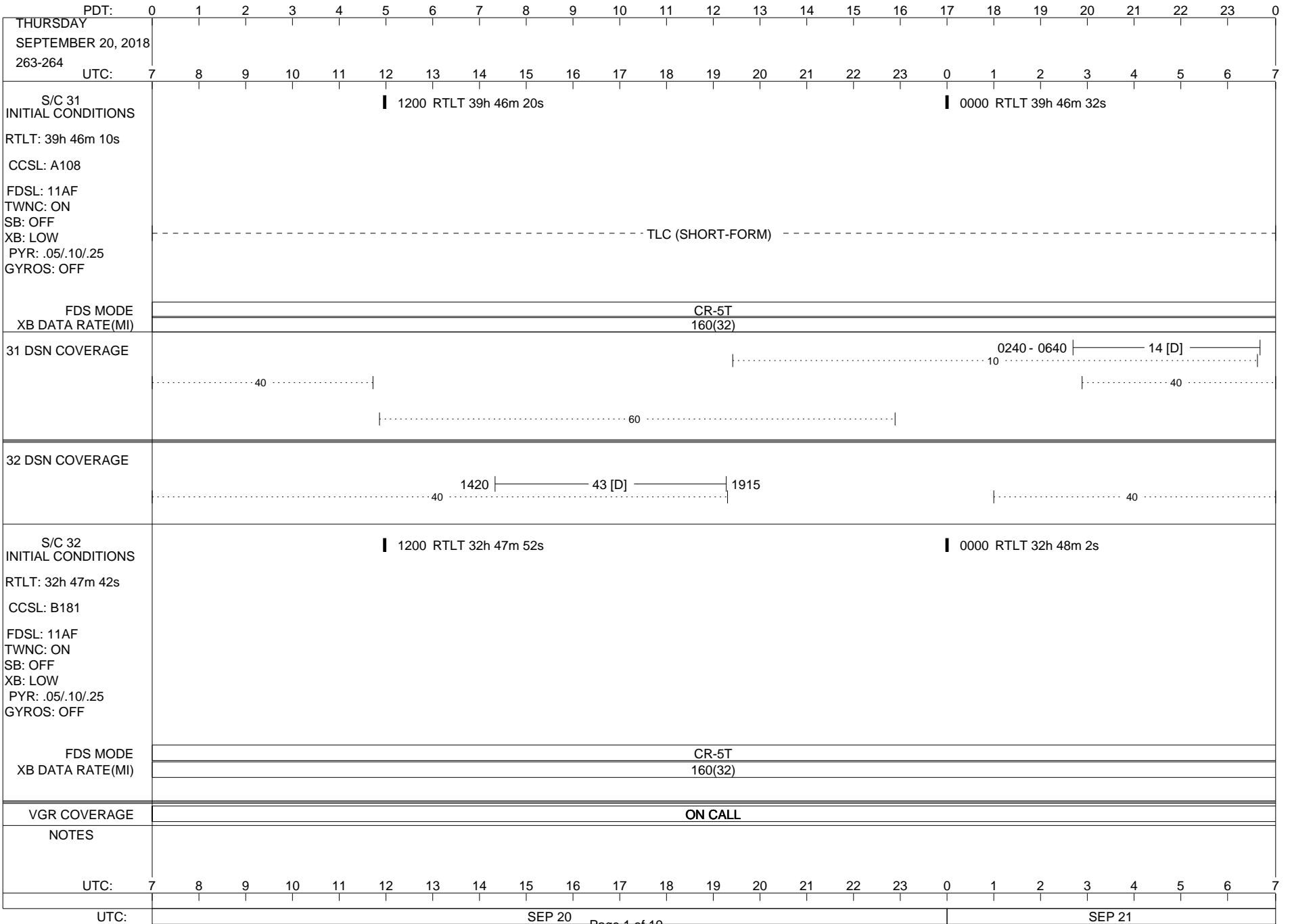
**LEGEND:**

- ∇ = 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

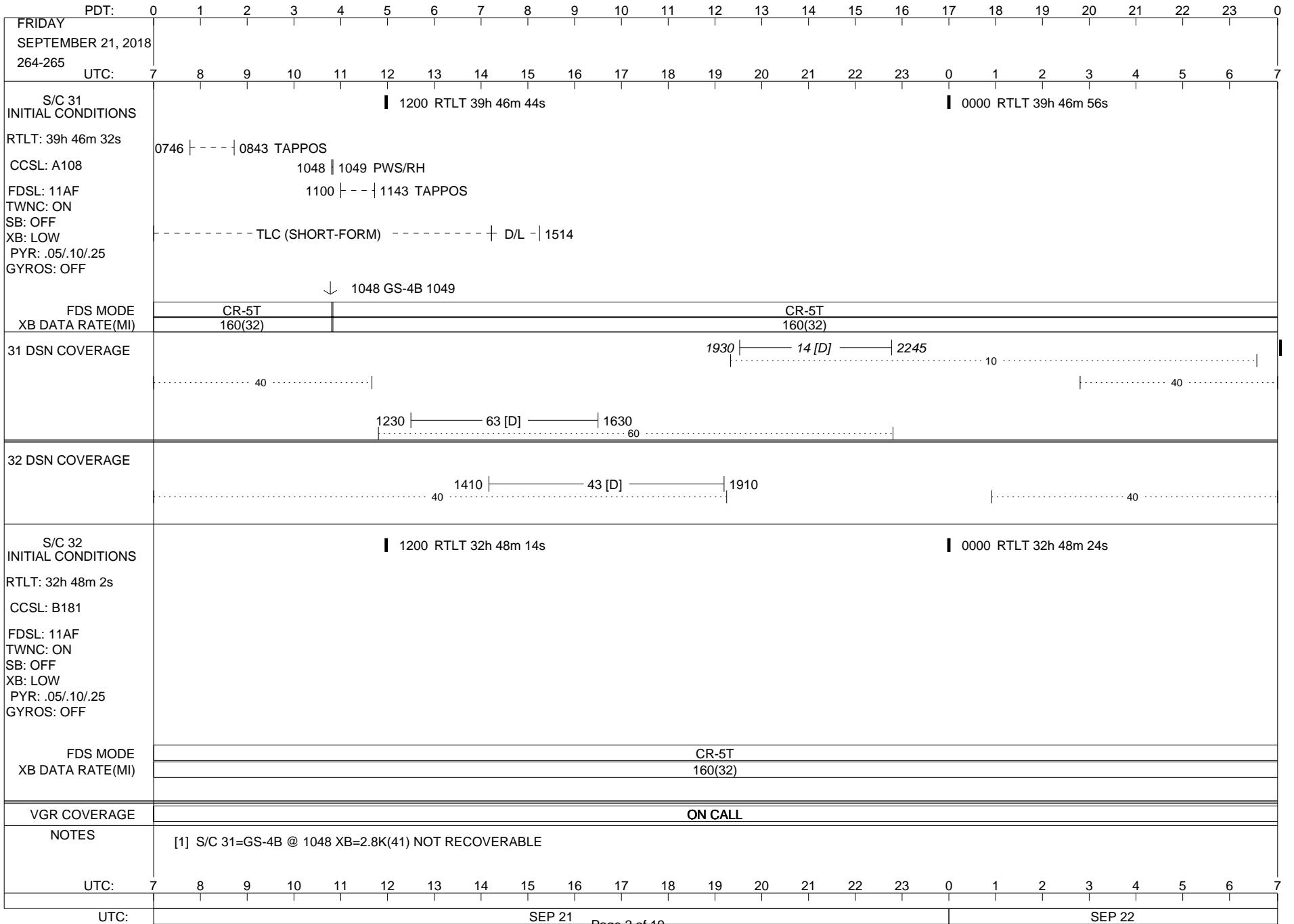
Posted at [http://voyager.jpl.nasa.gov/mission/soesfos/tracking\\_schedule.html](http://voyager.jpl.nasa.gov/mission/soesfos/tracking_schedule.html)

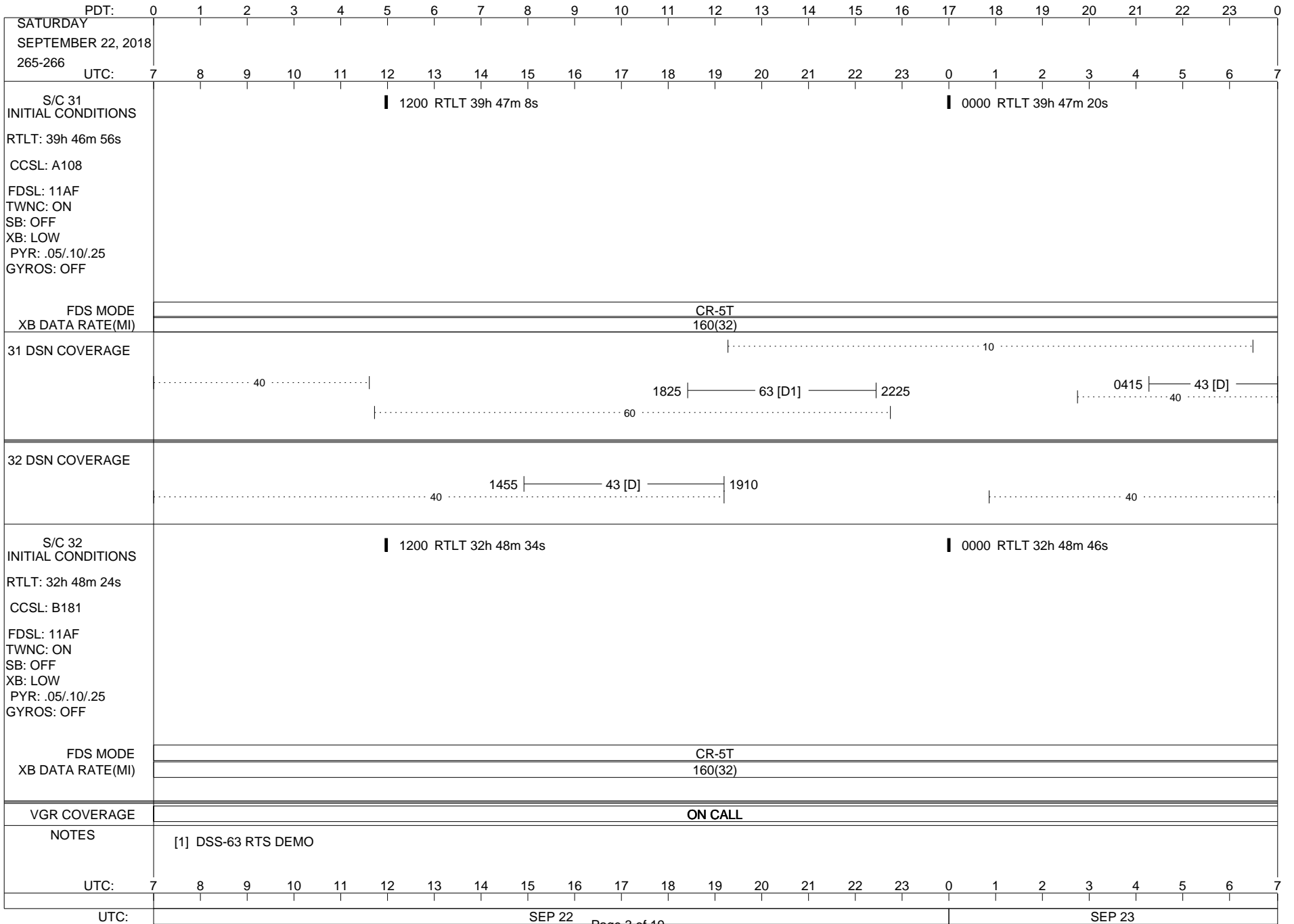
02/27/17

ISSUE DATE: 09/21/18 12:38



ISSUE DATE: 09/21/18 12:38

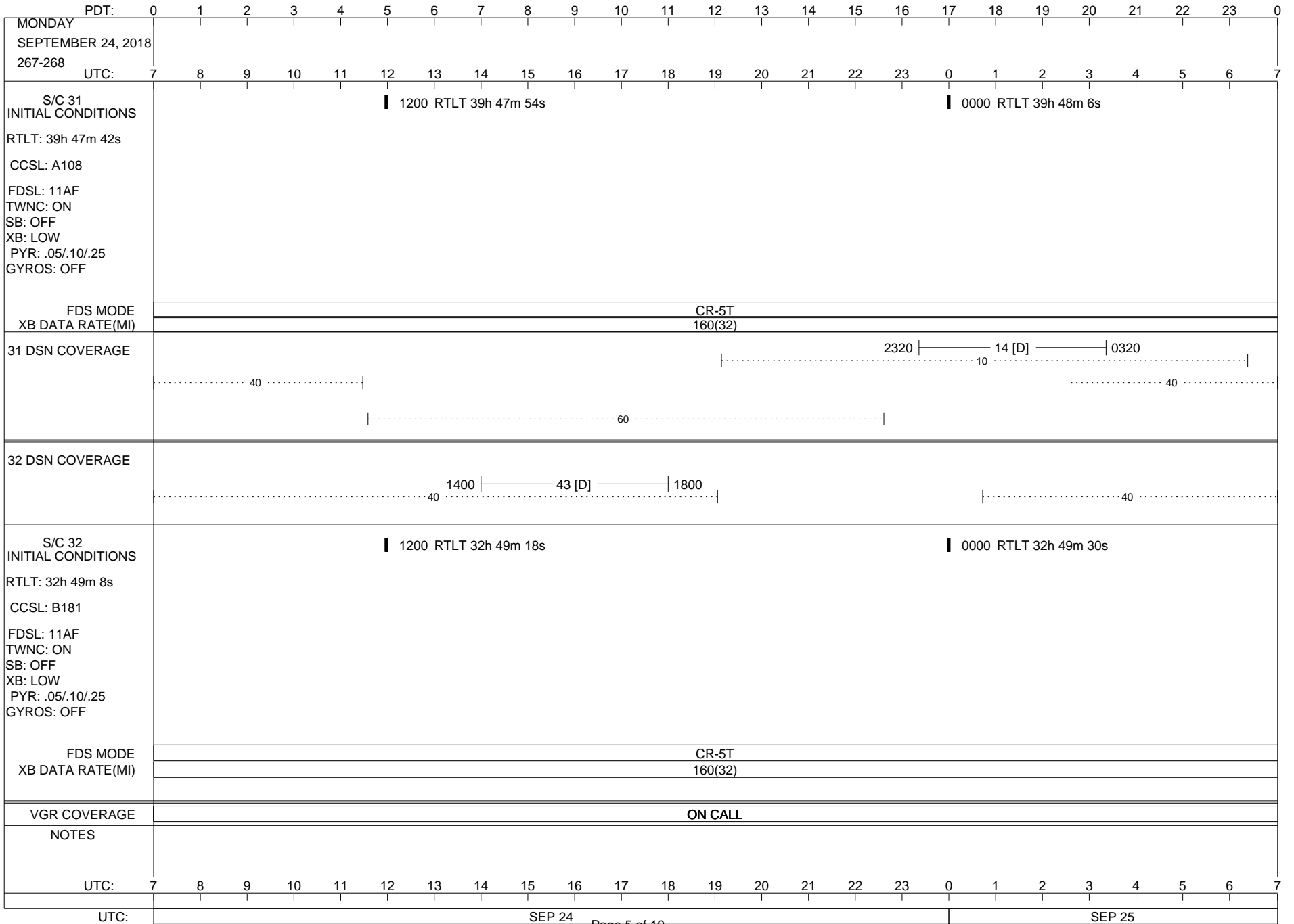




ISSUE DATE: 09/21/18 12:38

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 23, 2018 266-267	
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 47m 20s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 47m 30s 0000 RTLT 39h 47m 42s 1047   - -   1129 TAPPOS 1348   1350 PWS/RH 1400   -   1429 TAPPOS ↓ 1348 GS-4B 1350
	FDS MODE CR-5T CR-5T XB DATA RATE(MI) 160(32) 160(32)
	31 DSN COVERAGE 43 [D]   0815 0015   14 [D]   0415 40 ..... 40 ..... ..... 60 .....
	32 DSN COVERAGE 1405   43 [D]   1905 40 ..... 40 .....
S/C 32 INITIAL CONDITIONS RTLT: 32h 48m 46s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 48m 56s 0000 RTLT 32h 49m 8s
	FDS MODE CR-5T XB DATA RATE(MI) 160(32)
	VGR COVERAGE ON CALL
	NOTES [1] S/C 31=GS-4B @ 1348 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: SEP 23 SEP 24	

ISSUE DATE: 09/21/18 12:38



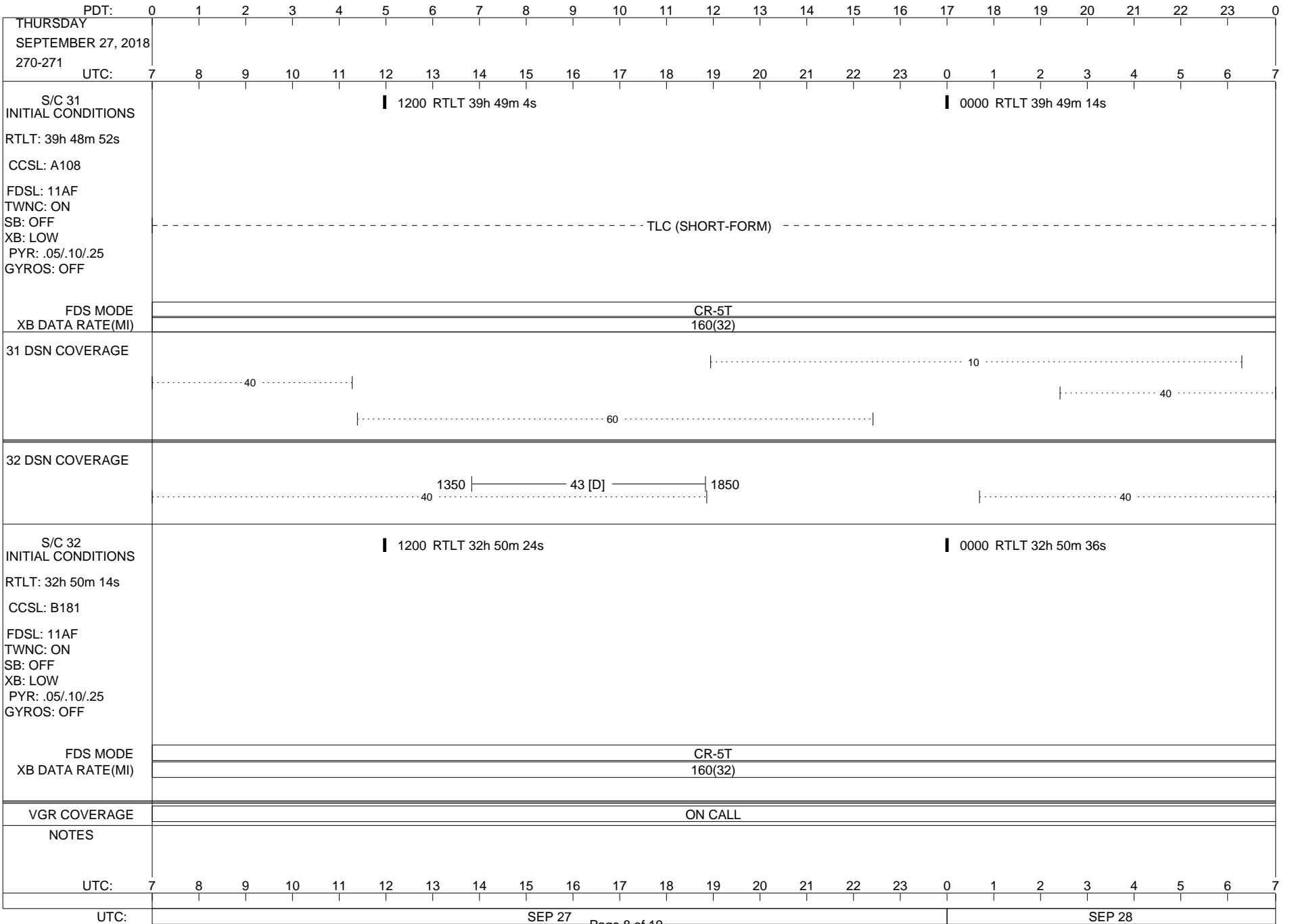
PDT:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	
TUESDAY SEPTEMBER 25, 2018 268-269																										
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
S/C 31 INITIAL CONDITIONS RTLTL: 39h 48m 6s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						1200												0000								
FDS MODE																										
XB DATA RATE(MI)																										
31 DSN COVERAGE																										
32 DSN COVERAGE																										
S/C 32 INITIAL CONDITIONS RTLTL: 32h 49m 30s 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:																										

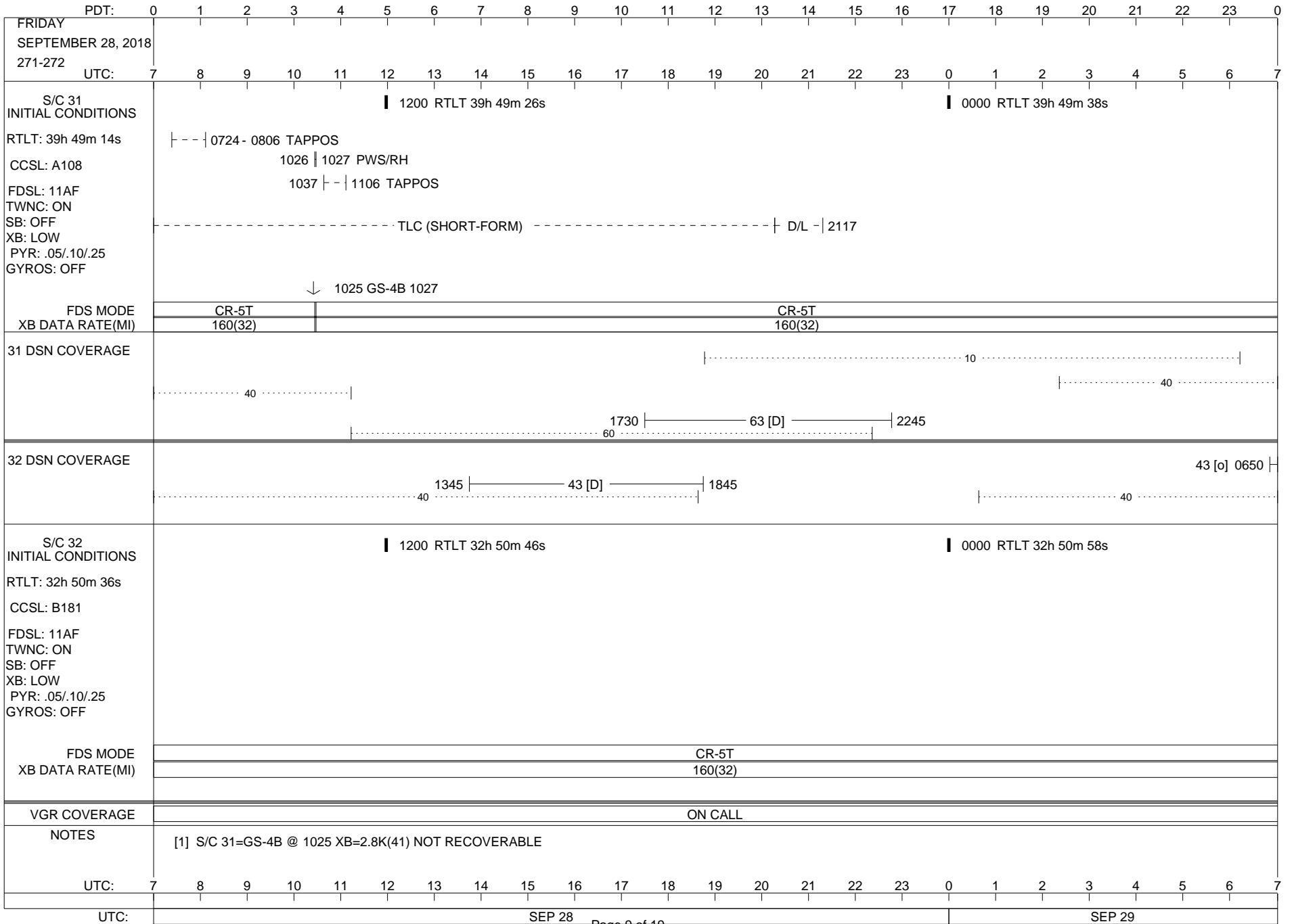
ISSUE DATE: 09/21/18 12:38

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 26, 2018 269-270																									
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 48m 28s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 39h 48m 40s												█ 0000 RTLT 39h 48m 52s							
FDS MODE XB DATA RATE(MI)																									
31 DSN COVERAGE																									
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS RTLT: 32h 49m 52s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 32h 50m 2s												█ 0000 RTLT 32h 50m 14s							
FDS MODE XB DATA RATE(MI)																									
VGR COVERAGE	VGR																								
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:																									



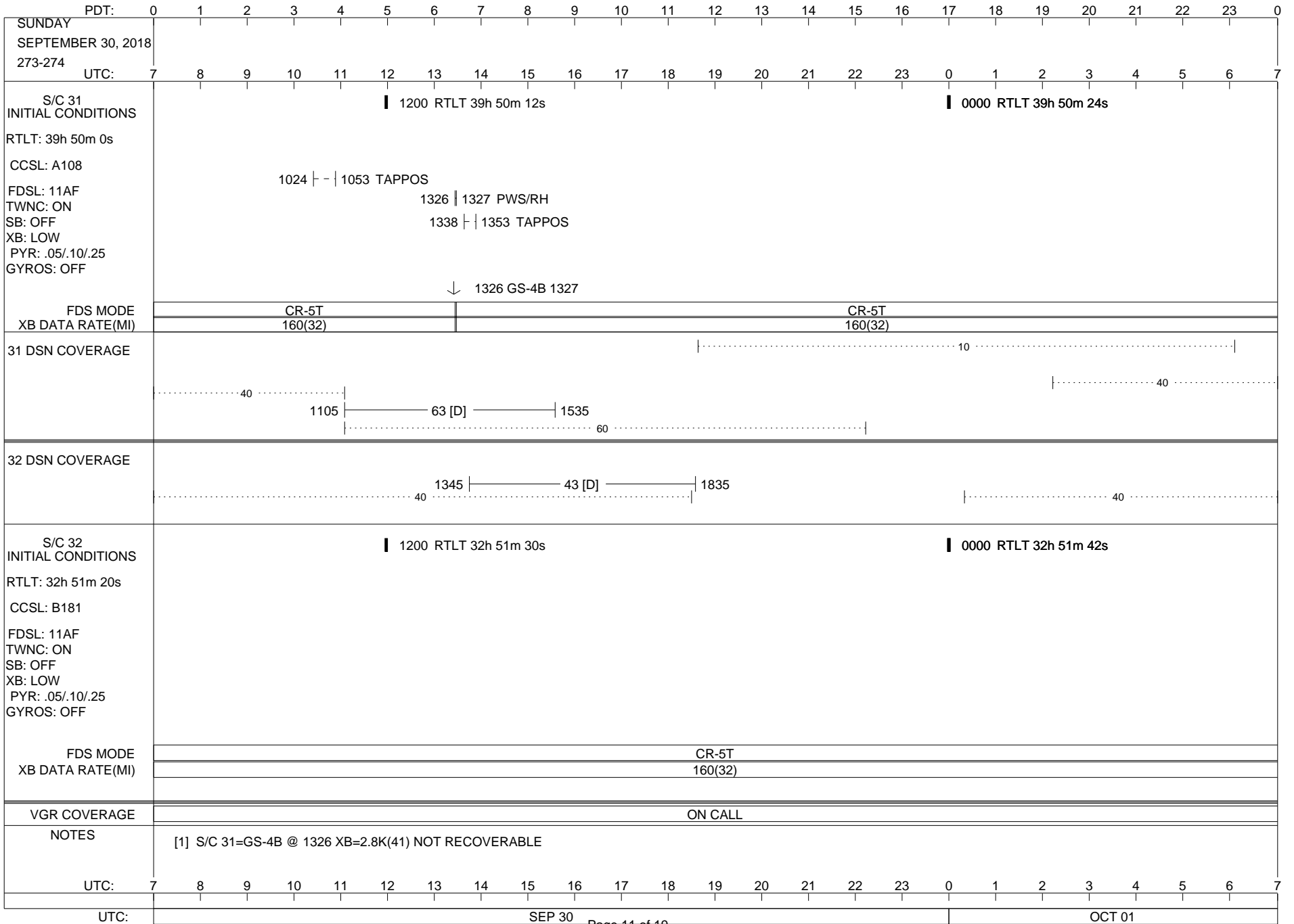
ISSUE DATE: 09/21/18 12:38





ISSUE DATE: 09/21/18 12:38

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 29, 2018 272-273																									
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 49m 38s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 39h 49m 48s												█ 0000 RTLT 39h 50m 0s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	.....40.....												1845  ----- 14 [D] -----  2245  ----- 10 -----   ----- 40 -----												
32 DSN COVERAGE	----- 43 [o] -----  1050 .....40.....												1525  ----- 43 [D] -----  1840  ----- 40 -----												
S/C 32 INITIAL CONDITIONS RTLT: 32h 50m 58s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 32h 51m 8s												█ 0000 RTLT 32h 51m 20s												
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:	SEP 29												SEP 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 OCTOBER 1, 2018 274-275																												
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 50m 24s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 39h 50m 34s															█ 0000 RTLT 39h 50m 46s							
FDS MODE													CR-5T															
XB DATA RATE(MI)													160(32)															
31 DSN COVERAGE													.....10.....															
	.....40.....				.....40.....																							
	1050		63 [D]						1735																			
	.....60.....																											
32 DSN COVERAGE													.....40.....															
	.....40.....				1430				43 [D]				1830				.....40.....											
S/C 32 INITIAL CONDITIONS RTLT: 32h 51m 42s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 32h 51m 52s																						
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:	OCT 01														OCT 02													

ISSUE DATE: 09/21/18 12:38

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			
TUESDAY OCTOBER 2, 2018 275-276																												
S/C 31 INITIAL CONDITIONS RTLT: 39h 50m 46s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 50m 56s												0000 RTLT 39h 51m 8s															
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 52m 4s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 52m 14s												0000 RTLT 32h 52m 26s															
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 @ 0349 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 02														OCT 03													

ISSUE DATE: 09/21/18 12:38

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 OCTOBER 3, 2018 276-277																												
S/C 31 INITIAL CONDITIONS RTLT: 39h 51m 8s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 51m 20s												0000 RTLT 39h 51m 30s															
FDS MODE													CR-5T															
XB DATA RATE(MI)													160(32)															
31 DSN COVERAGE	40												2055  -----  14 [D]  -----  0055  -----  10  -----  40															
32 DSN COVERAGE	40												1340  -----  43 [D]  -----  1825  -----  40  -----															
S/C 32 INITIAL CONDITIONS RTLT: 32h 52m 26s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 52m 36s												0000 RTLT 32h 52m 48s															
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:	OCT 03														OCT 04													

ISSUE DATE: 09/21/18 12:38

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		
THURSDAY OCTOBER 4, 2018 277-278																											
S/C 31 INITIAL CONDITIONS RTLTL: 39h 51m 30s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 51m 42s												0000 RTLT 39h 51m 52s														
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)														
31 DSN COVERAGE	<p>..... </p> <p>.....40..... </p> <p>..... </p> <p>.....60..... </p> <p>.....1945 -----63 [1]----- 2220</p> <p>..... </p>																										
32 DSN COVERAGE	<p>..... </p> <p>.....40..... </p> <p>.....1505 -----43 [D]----- 1820</p> <p>..... </p> <p>.....40..... </p>																										
S/C 32 INITIAL CONDITIONS RTLTL: 32h 52m 48s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 53m 0s												0000 RTLT 32h 53m 10s														
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)														
VGR COVERAGE	ON CALL												VGR						ON CALL								
NOTES	[1] DSS-63 LP TXR DRV OFF <= 21:57.																										
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 04														OCT 05												



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 OCTOBER 5, 2018 278-279	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 51m 52s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 52m 4s												0000 RTLT 39h 52m 16s													
0701 - 0730 TAPPOS 1003   1004 PWS/RH 1015   1030 TAPPOS ↓ 1003 GS-4B 1004																										
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)													
31 DSN COVERAGE	.....40.....												.....10.....													
	.....1545  -----63 [D]-----  1950												.....40.....													
	.....60.....																									
32 DSN COVERAGE	.....40.....												.....40.....													
	.....1415  -----43 [D]-----  1815																									
S/C 32 INITIAL CONDITIONS RTLT: 32h 53m 10s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 53m 22s												0000 RTLT 32h 53m 32s													
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)													
VGR COVERAGE													ON CALL													
NOTES	[1] S/C 31=GS-4B @ 1003 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 05													OCT 06												

ISSUE DATE: 09/21/18 12:38

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 OCTOBER 6, 2018 279-280																												
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 52m 16s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 52m 26s												0000 RTLT 39h 52m 38s															
	1320    1327 CCSL A109A CHKSUM 1345    1348 2 AHELI2 SID MRO'S EL-40 1249* ↓ * 1349 CR-5T																											
FDS MODE	CR-5T						EL-40						CR-5T															
XB DATA RATE(MI)	160(32)						40(30)						160(32)															
31 DSN COVERAGE	.....40..... .....40..... 1045  ----- 63 [D] -----  1505 .....60.....												.....10..... .....40.....															
32 DSN COVERAGE	.....40..... 1315  ----- 43 [B] -----  1810 .....40.....												.....40.....															
S/C 32 INITIAL CONDITIONS RTLT: 32h 53m 32s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 53m 44s												0000 RTLT 32h 53m 56s															
													▼ 1737 DUMMY (5 MIN BRACKETED 02:31)															
FDS MODE													CR-5T															
XB DATA RATE(MI)													160(32)															
VGR COVERAGE	ON CALL				VGR				ON CALL				VGR				ON CALL											
NOTES	[1] S/C 31=EL-40 @ 1249 XB=40(30) [2] S/C 31=CR-5T @ 1349 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:	OCT 06														OCT 07													

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 7, 2018 280-281																											
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 52m 38s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 39h 52m 48s												█ 0000 RTLTL 39h 53m 0s														
	1001     1016 TAPPOS												1304   1305 PWS/RH														
													1315   1316 TAPPOS														
													↓ 1303 GS-4B 1305														
FDS MODE	CR-5T												CR-5T														
XB DATA RATE(MI)	160(32)												160(32)														
31 DSN COVERAGE	.....40.....												.....10.....														
	.....1155  -----63 [D]-----  1655												.....40.....														
	.....60.....																										
32 DSN COVERAGE	.....40.....												.....40.....														
	1410  -----43 [D]-----  1810												0235 - 0635  -----34 [DA]-----														
													0235 - 0635  -----36 [DAR]-----														
S/C 32 INITIAL CONDITIONS RTLTL: 32h 53m 56s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 32h 54m 6s												█ 0000 RTLTL 32h 54m 18s														
FDS MODE													CR-5T														
XB DATA RATE(MI)													160(32)														
VGR COVERAGE													ON CALL														
NOTES	[1] S/C 31=GS-4B @ 1303 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 07														OCT 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 OCTOBER 8, 2018 281-282																									
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 53m 0s CCSL: A108 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 53m 10s																								
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	<p>..... 40 .....</p> <p>1035  ----- 63 [D] -----  1435</p> <p>..... 60 .....</p>																								
32 DSN COVERAGE	<p>..... 40 .....</p>																								
S/C 32 INITIAL CONDITIONS RTLT: 32h 54m 18s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 54m 28s																								
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:	OCT 08												OCT 09												