

VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: September 20, 2017

For the Period: 09/21/17 to 10/09/17 (17/264 – 17/283)

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.	

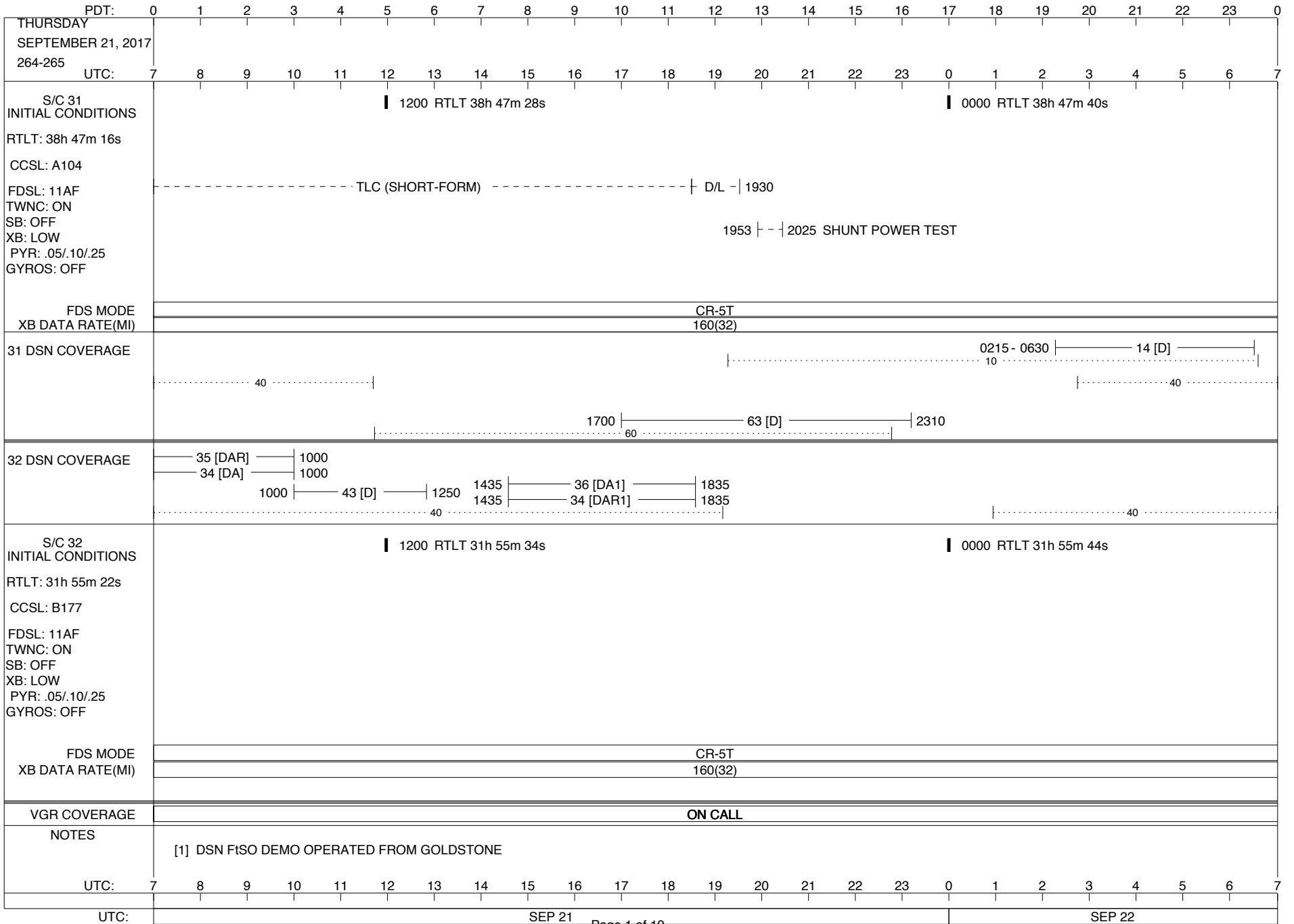
LEGEND:

- ∇ = 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

02/27/17

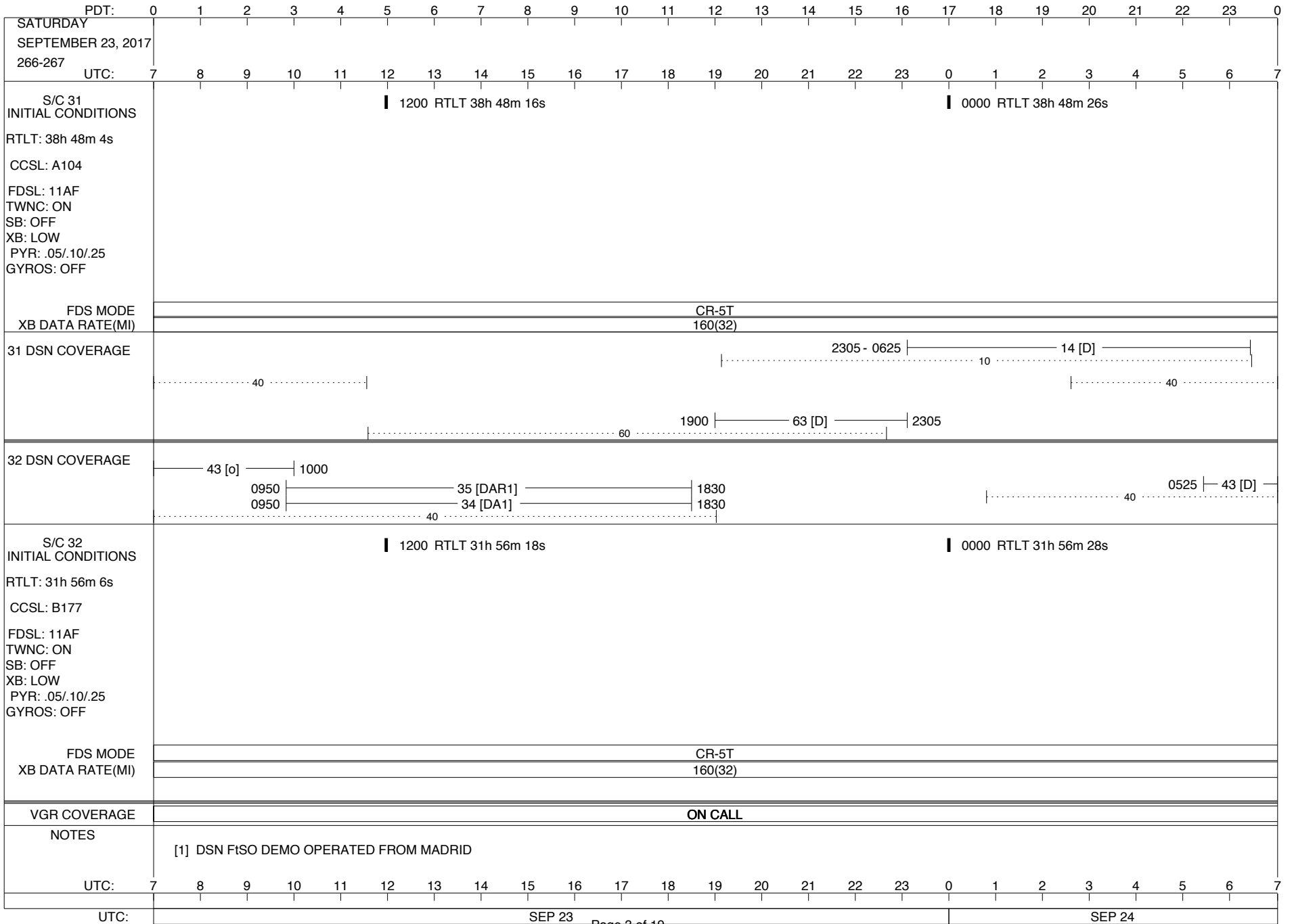
ISSUE DATE: 09/27/17 09:01



ISSUE DATE: 09/27/17 09:01

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S/C 31 INITIAL CONDITIONS RTLTL: 38h 47m 40s CCSL: A104 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 38h 47m 52s												█ 0000 RTLTL 38h 48m 4s												
	|----| 0741 - 0837 TAPPOS																								
	1043 | 1044 PWS/RH																								
	1054 |--| 1137 TAPPOS																								
	↓ 1042 GS-4B 1044																								
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	.....40.....|												.....10.....|												
	1805 |--- 54 [DAR2] ---| 2120												0245 - 0630 |----- 14 [D] -----|												
	1805 |--- 55 [DA2] ---| 2120												.....40.....|												
	.....60.....|												2120 |--- 63 [D] ---| 2300											
32 DSN COVERAGE	0855 |--- 34 [D] ---| 1040												0550 |--- 43 [o] ---|												
	1020 |----- 43 [D] -----| 1840												.....40.....|												
S/C 32 INITIAL CONDITIONS RTLTL: 31h 55m 44s CCSL: B177 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 31h 55m 56s												█ 0000 RTLTL 31h 56m 6s												
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
VGR COVERAGE													ON CALL												
NOTES	[1] S/C 31=GS-4B @ 1042 XB=2.8K(41) NOT RECOVERABLE																								
	[2] DSN FISO DEMO OPERATED FROM CANBERRA																								
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 22												SEP 23												

ISSUE DATE: 09/27/17 09:01



ISSUE DATE: 09/27/17 09:01

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 24, 2017 267-268																										
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S/C 31 INITIAL CONDITIONS RTLTL: 38h 48m 26s CCSL: A104 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	█ 1200 RTLTL 38h 48m 38s												█ 0000 RTLTL 38h 48m 50s													
	1041 | - - - | 1124 TAPPOS												1343 | 1344 PWS/RH													
													1355 | - - | 1424 TAPPOS													
													↓ 1343 GS-4B 1344													
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
31 DSN COVERAGE	.....40.....|												|.....10.....|													
	.....40.....|												|.....40.....|													
	|.....1615.....|												|.....63 [D].....|													
	|.....60.....|												|.....2255.....|													
32 DSN COVERAGE	|.....43 [D].....|												|.....1825.....|													
	|.....40.....|												|.....40.....|													
S/C 32 INITIAL CONDITIONS RTLTL: 31h 56m 28s CCSL: B177 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	█ 1200 RTLTL 31h 56m 38s												█ 0000 RTLTL 31h 56m 50s													
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
VGR COVERAGE													ON CALL													
NOTES	[1] S/C 31=GS-4B @ 1343 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 24													SEP 25												

ISSUE DATE: 09/27/17 09:01

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MONDAY SEPTEMBER 25, 2017 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: 38h 48m 50s CCSL: A104 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: 31h 56m 50s CCSL: B177 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: 09/27/17 09:01

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 26, 2017 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	1200 RTLT 38h 49m 24s												0000 RTLT 38h 49m 36s												
RTLT: 38h 49m 12s																									
CCSL: A104																									
FDSL: 11AF																									
TWNC: ON																									
SB: OFF																									
XB: LOW																									
PYR: .05/10/25																									
GYROS: OFF																									
----- TLC (SHORT-FORM) -----																									
0407 GS-4B 0407																									
FDS MODE	CR-5T											CR-5T													
XB DATA RATE(MI)	160(32)											160(32)													
31 DSN COVERAGE	.....|..... 10 .....											.....|..... 40										
	.....|..... 40 .....											.....|..... 40										
	.....|..... 60 .....											.....|..... 63 [D]										
	.....|..... 1845 .....											.....|..... 2245										
32 DSN COVERAGE	.....|..... 43 [D] .....											.....|..... 0930										
	.....|..... 0930 .....											.....|..... 34 [D]										
	.....|..... 1145 .....											.....|..... 1620										
	.....|..... 1620 .....											.....|..... 35 [DA]										
	.....|..... 1820 .....											.....|..... 1820										
	.....|..... 1620 .....											.....|..... 36 [DAR]										
	.....|..... 1820 .....											.....|..... 0135										
	.....|..... 43 [D] .....											.....|..... 0445										
	.....|..... 40 .....											.....|..... 40										
S/C 32 INITIAL CONDITIONS	1200 RTLT 31h 57m 22s												0000 RTLT 31h 57m 34s												
RTLT: 31h 57m 12s																									
CCSL: B177																									
FDSL: 11AF																									
TWNC: ON																									
SB: OFF																									
XB: LOW																									
PYR: .05/10/25																									
GYROS: OFF																									
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 @ 0407 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 26														SEP 27										

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 27, 2017 270-271																											
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: 38h 49m 36s CCSL: A104 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	█ 1200 RTLT 38h 49m 48s											█ 0000 RTLT 38h 49m 58s															
----- TLC (SHORT-FORM) -----| D/L -|2042																											
FDS MODE												CR-5T															
XB DATA RATE(MI)												160(32)															
31 DSN COVERAGE												|.....10.....|															
.....40.....|																											
1430 |-----60-----| 2240																											
32 DSN COVERAGE	0845 |-----35 [D]-----| 1155																										
.....40.....| 1345 |-----43 [B]-----| 1825																											
.....40.....|																											
S/C 32 INITIAL CONDITIONS RTLT: 31h 57m 34s CCSL: B177 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	█ 1200 RTLT 31h 57m 44s											█ 0000 RTLT 31h 57m 56s															
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		
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ISSUE DATE: 09/27/17 09:01

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 29, 2017 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 RTLTL: 38h 50m 22s CCSL: A104 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	| 1200 RTLTL 38h 50m 34s												| 0000 RTLTL 38h 50m 44s												
	| --- | 0718 - 0801 TAPPOS												1020 | 1021 PWS/RH												
	↓ 1020 GS-4B 1021												1032 | - | 1101 TAPPOS												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	.....40.....|												|.....10.....|												
	.....40.....|												|.....40.....|												
	|.....1715|.....63 [D].....|2235												|.....60.....|												
32 DSN COVERAGE	|.....34 [D].....|0730 - 1135												1525 |.....43 [D].....|1840											
	.....40.....|												|.....40.....|												
S/C 32 INITIAL CONDITIONS RTLTL: 31h 58m 18s CCSL: B177 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	| 1200 RTLTL 31h 58m 30s												| 0000 RTLTL 31h 58m 40s												
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
VGR COVERAGE													ON CALL												
NOTES	[1] S/C 31=GS-4B @ 1020 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 29												SEP 30												

ISSUE DATE: 09/27/17 09:01

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 30, 2017
273-274

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: 38h 50m 44s
CCSL: A104
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF

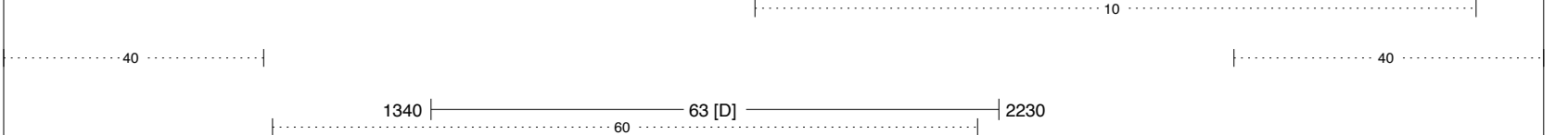
1200 RTLTL 38h 50m 56s

0000 RTLTL 38h 51m 8s

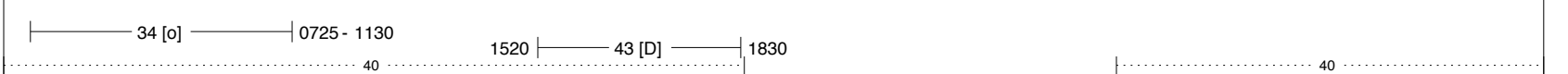
FDS MODE
XB DATA RATE(MI)

CR-5T
160(32)

31 DSN COVERAGE



32 DSN COVERAGE



S/C 32
INITIAL CONDITIONS
RTLTL: 31h 58m 40s
CCSL: B177
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF

1200 RTLTL 31h 58m 52s

0000 RTLTL 31h 59m 2s

FDS MODE
XB DATA RATE(MI)

CR-5T
160(32)

VGR COVERAGE

ON CALL

NOTES

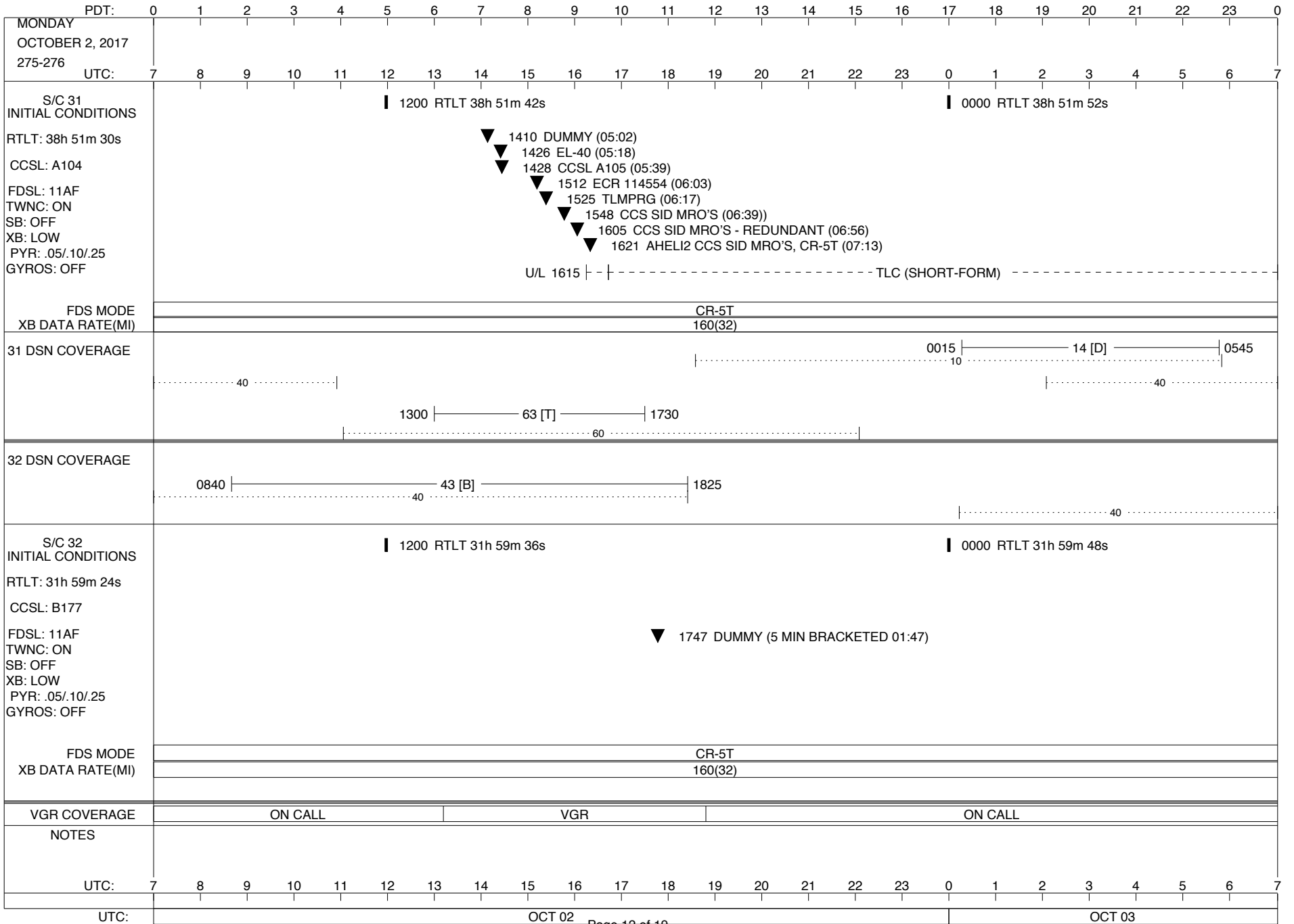
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UTC: SEP 30 OCT 01

ISSUE DATE: 09/27/17 09:01

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SUNDAY OCTOBER 1, 2017 274-275																									
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S/C 31 INITIAL CONDITIONS RTLTL: 38h 51m 8s CCSL: A104 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLTL 38h 51m 18s												0000 RTLTL 38h 51m 30s												
	1019 | - | 1048 TAPPOS												1320 | 1322 PWS/RH												
													1332 | | 1347 TAPPOS												
													↓ 1320 GS-4B 1322												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	..... 40 .....												..... 10 0150 |----- 14 [D] -----| 0555											
													..... 60 1830 |----- 63 [D] -----| 2230											
32 DSN COVERAGE	0945 |--- 35 [D] ---| 1145												1425 |----- 43 [D] -----| 1840												
	..... 40 .....												..... 40											
S/C 32 INITIAL CONDITIONS RTLTL: 31h 59m 2s CCSL: B177 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	| 1200 RTLTL 31h 59m 14s												| 0000 RTLTL 31h 59m 24s												
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
VGR COVERAGE													ON CALL												
NOTES	[1] S/C 31=GS-4B @ 1320 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 01												OCT 02												

ISSUE DATE: 09/27/17 09:01



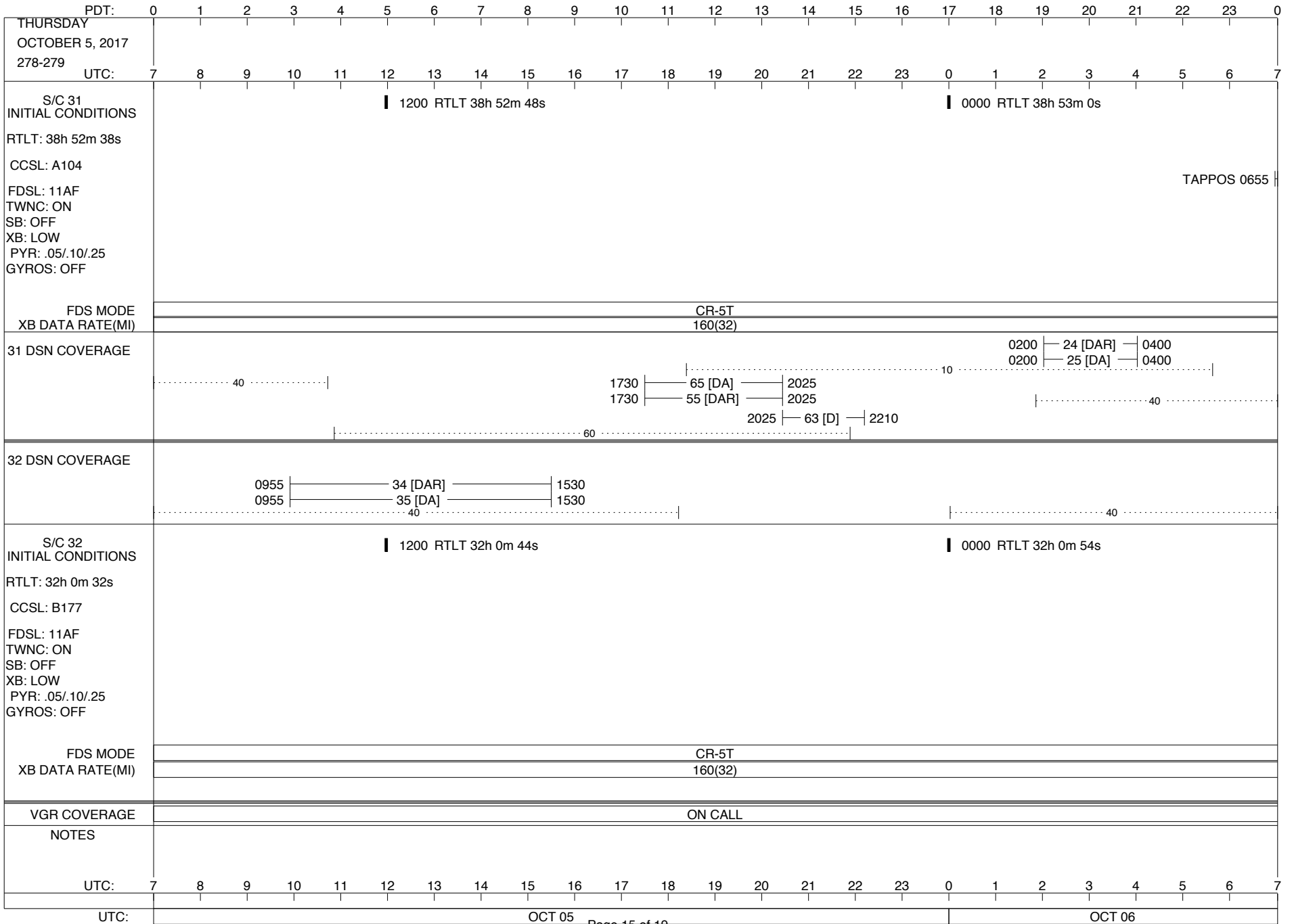
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TUESDAY OCTOBER 3, 2017 276-277																										
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
S/C 31 INITIAL CONDITIONS RTLT: 38h 51m 52s CCSL: A104 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	| 1200 RTLT 38h 52m 4s												| 0000 RTLT 38h 52m 14s PWS/RH 0344 | 0345 A105 CHKSUM 0555 | 0559 TLMPRG 0617 - 0633 | 4 CCS SID MRO'S 0642 - 0647 | 4 CCS SID MRO'S - REDUNDANT 0659 |													
----- TLC (SHORT-FORM) -----																										
FDS MODE	CR-5T												CR-5T						EL-40							
XB DATA RATE(MI)	160(32)												160(32)						40(30)							
31 DSN COVERAGE	|-----|												|-----|						|-----|							
	|-----40-----|												|-----60-----|						|-----40-----|							
	|-----60-----|												|-----40-----|						|-----40-----|							
32 DSN COVERAGE	|-----|												|-----|						|-----|							
	|-----40-----|												|-----40-----|						|-----40-----|							
S/C 32 INITIAL CONDITIONS RTLT: 31h 59m 48s CCSL: B177 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	| 1200 RTLT 31h 59m 58s												| 0000 RTLT 32h 0m 10s													
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
VGR COVERAGE	ON CALL												VGR													
NOTES	[1] S/C 31=GS-4B @ 0344 XB=2.8K(41) NOT RECOVERABLE [2] S/C 31=EL-40 @ 0519 XB=40(30)																									
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													

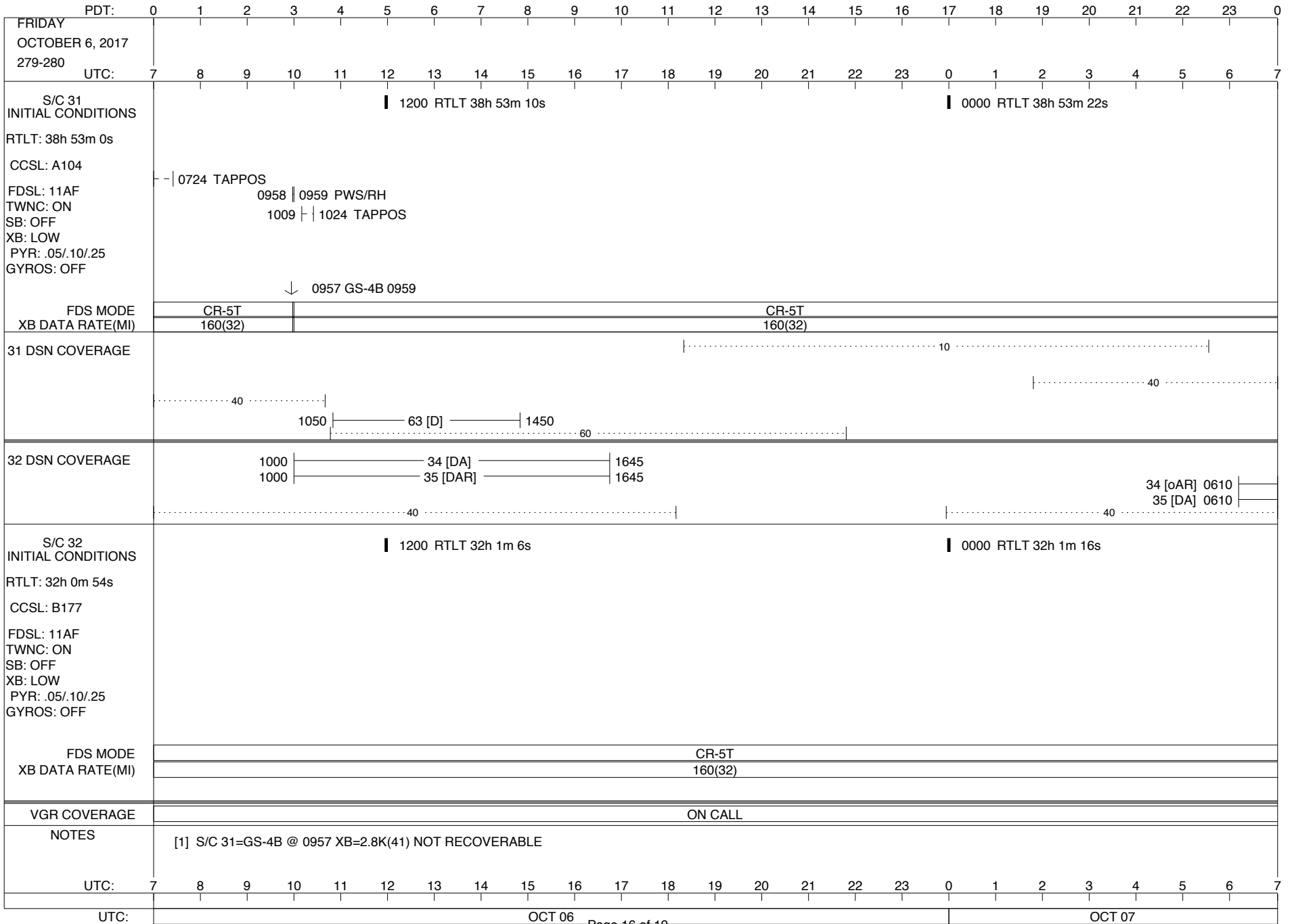
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PDT: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0	
WEDNESDAY OCTOBER 4, 2017 277-278	
UTC: 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7	
S/C 31 INITIAL CONDITIONS RTLT: 38h 52m 14s CCSL: A104 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	<p>1200 RTLT 38h 52m 26s</p> <p>0000 RTLT 38h 52m 38s</p> <p>* 0703 4 CCS SID MRO'S - REDUNDANT</p> <p>* 0715 - 0716 2 AHEL12 CCS SID MRO'S</p> <p>-- TLC (SHORT-FORM)</p> <p>* 0719 CR-5T</p>
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)
31 DSN COVERAGE	<p>.....|.....10.....|.....</p> <p>35 [DAR] | 0835</p> <p>36 [DAR] | 0835</p> <p>.....40.....</p> <p>.....60.....</p> <p>2030 | 63 [D] | 2230</p>
32 DSN COVERAGE	<p>1005 | 35 [DA] | 1640</p> <p>1005 | 36 [DAR] | 1640</p> <p>.....40.....</p> <p>.....40.....</p>
S/C 32 INITIAL CONDITIONS RTLT: 32h 0m 10s CCSL: B177 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	<p>1200 RTLT 32h 0m 20s</p> <p>0000 RTLT 32h 0m 32s</p>
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)
VGR COVERAGE	VGR | ON CALL
NOTES	[1] S/C 31=CR-5T @ 0719 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 04 Page 14 of 19 OCT 05	

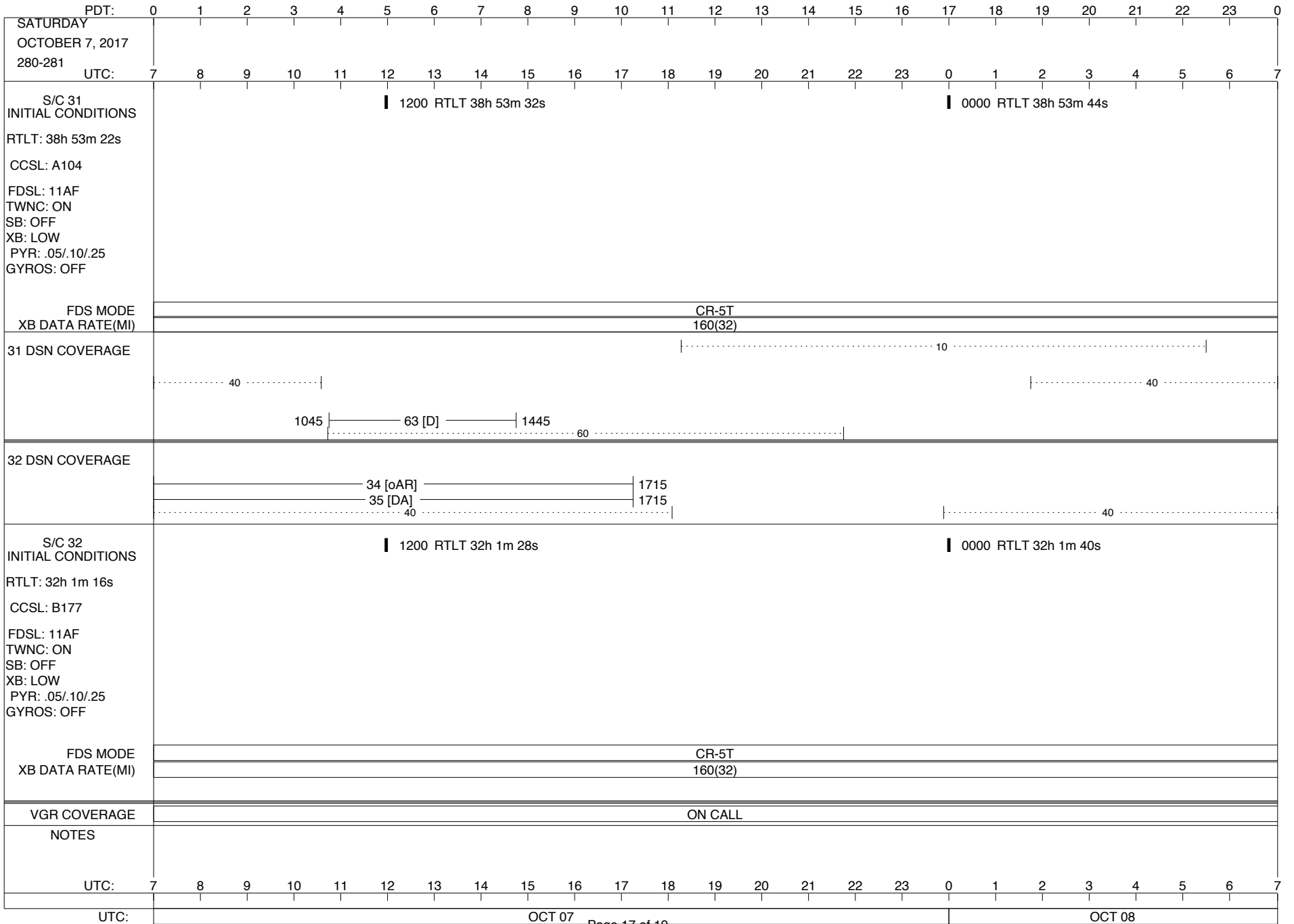
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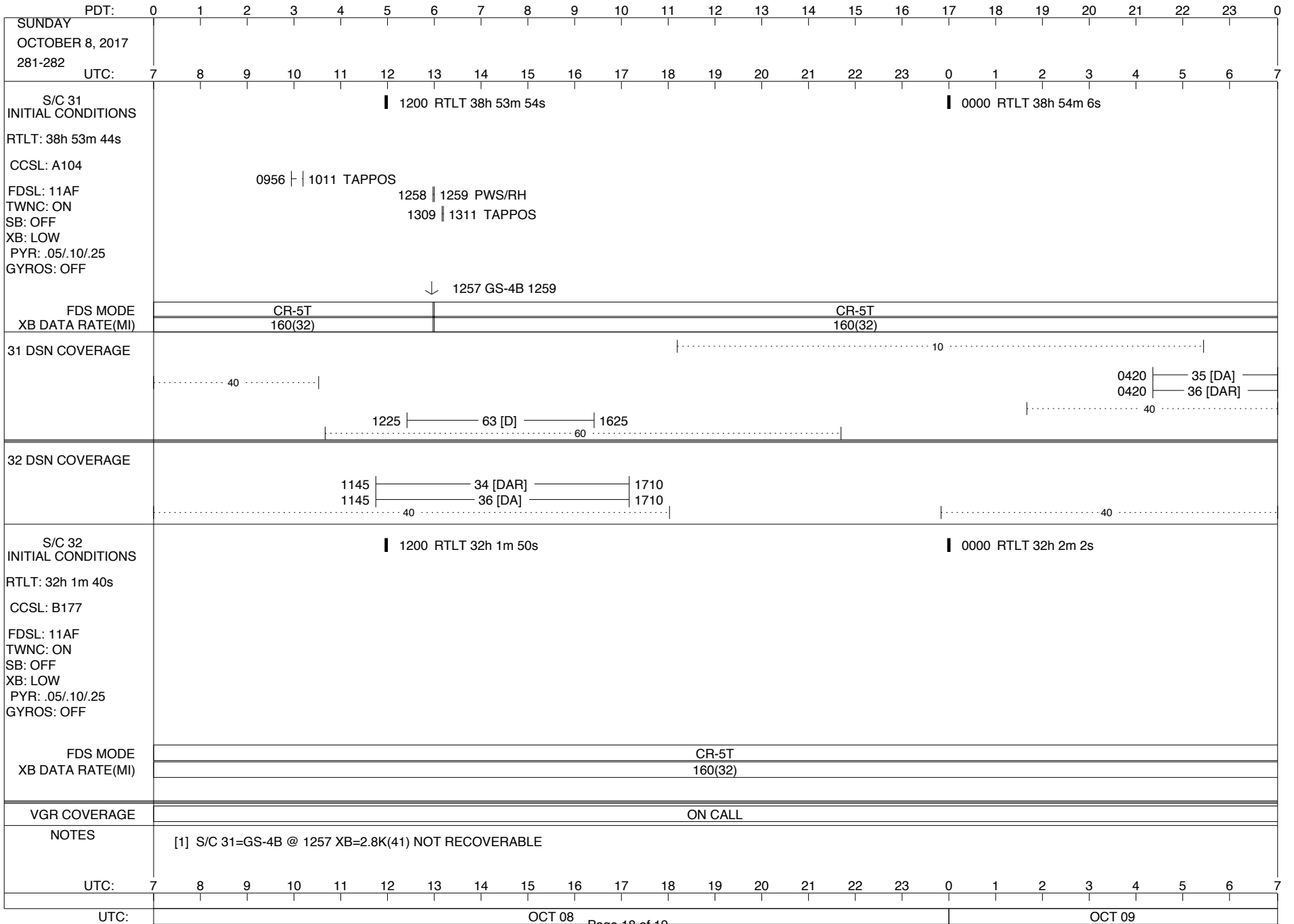
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ISSUE DATE: 09/27/17 09:01

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 9, 2017 282-283																											
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: 38h 54m 6s CCSL: A104 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	| 1200 RTLT 38h 54m 16s																										
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
31 DSN COVERAGE																											
32 DSN COVERAGE																											
S/C 32 INITIAL CONDITIONS RTLT: 32h 2m 2s CCSL: B177 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	| 1200 RTLT 32h 2m 12s																										
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 09													OCT 10													