

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: November 13, 2018

For the Period: 11/15/18 to 12/10/18 (18/319 – 18/344)

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

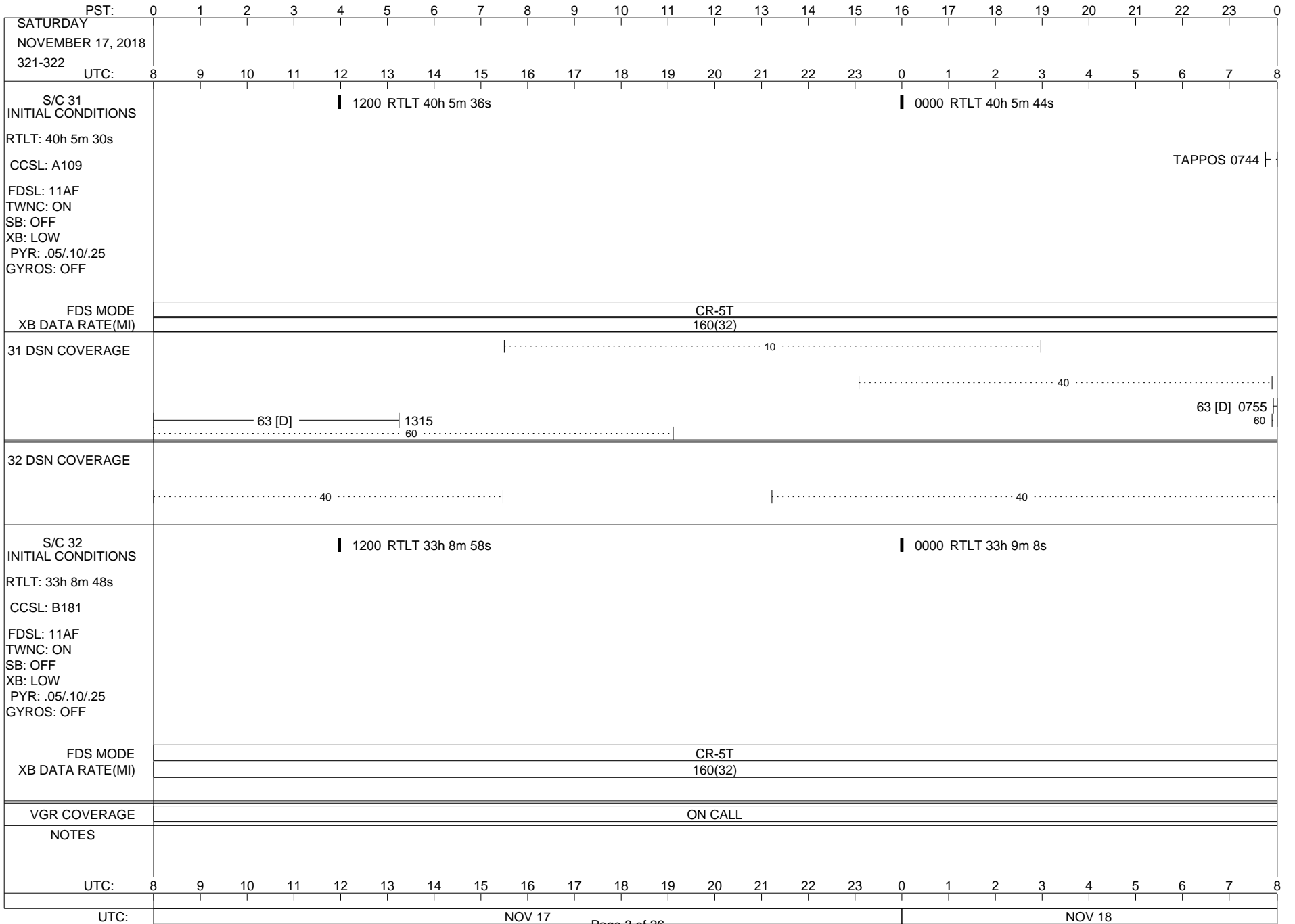
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S/C 31 INITIAL CONDITIONS RTLTL: 40h 5m 0s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 40h 5m 6s												0000 RTLTL 40h 5m 14s												
	0444   TAPPOS   0619 PWS/RH 0747 - 0747   TAPPOS 0757																								
	----- TLC (SHORT-FORM) -----																								
	0746 GS-4B 0747 ↓																								
FDS MODE	CR-5T																								
XB DATA RATE(MI)	160(32)																								
31 DSN COVERAGE	40 ..... 40 ..... 1430  ----- 63 [D1] -----  1805 .....60.....																								
32 DSN COVERAGE	43 [H]   0900 ..... 40 ..... 40 .....																								
S/C 32 INITIAL CONDITIONS RTLTL: 33h 8m 8s CCSL: B181 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 33h 8m 18s												0000 RTLTL 33h 8m 28s												
FDS MODE	CR-5T																								
XB DATA RATE(MI)	160(32)																								
VGR COVERAGE	ON CALL																								
NOTES	[1] A109B BACKUP U/L TRACK																								
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
UTC:	NOV 15																NOV 16								

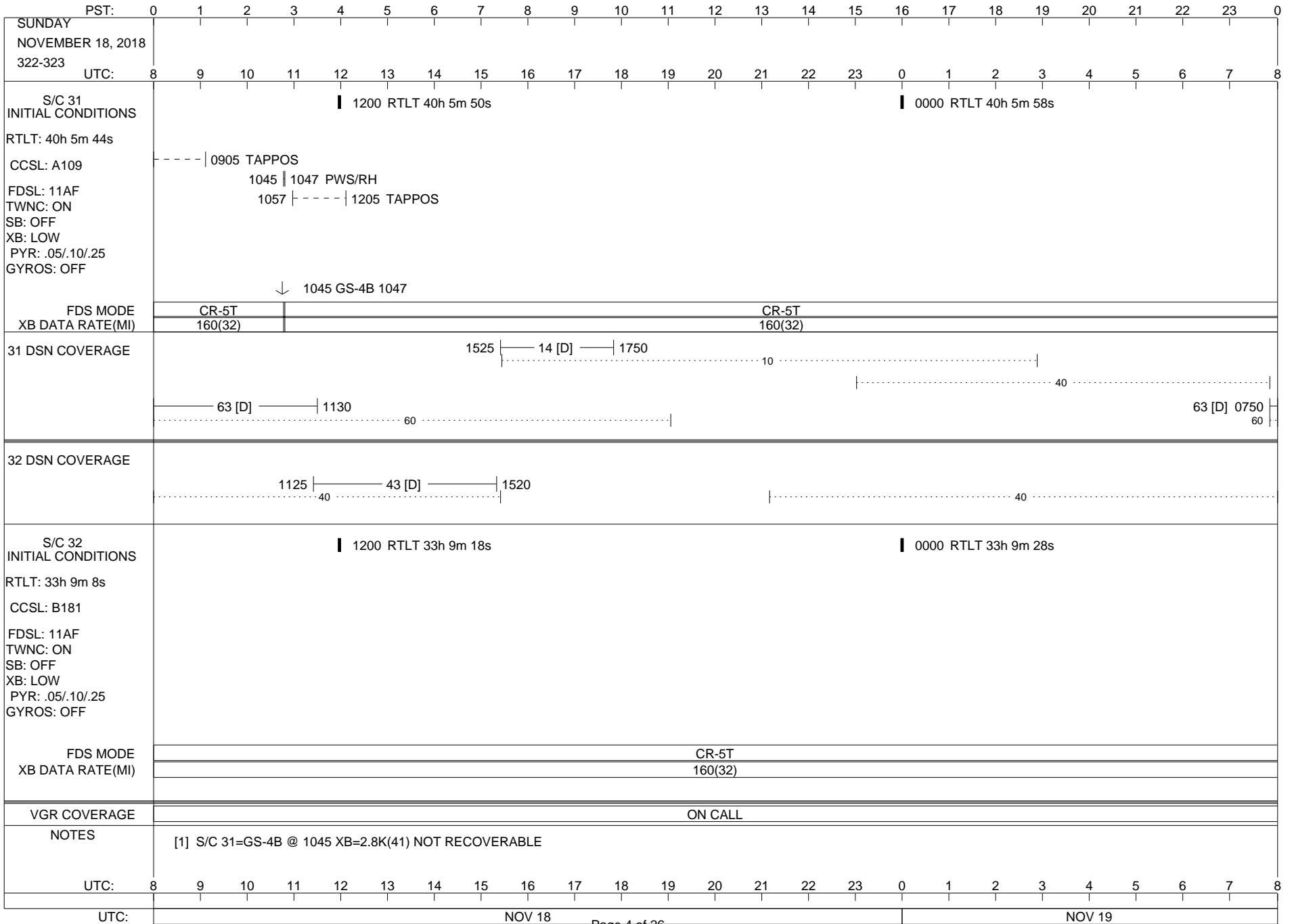
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FRIDAY																													
NOVEMBER 16, 2018																													
320-321																													
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S/C 31 INITIAL CONDITIONS		1200 RTLT 40h 5m 22s														0000 RTLT 40h 5m 30s													
RTLT: 40h 5m 14s		-   0816 - 0848 SHUNT POWER TEST																											
CCSL: A109		TAPPOS   0919																											
FDSL: 11AF		0927   0931 A109B CHKSUM																											
TWNC: ON		1000   1007 CCSTIM FINE																											
SB: OFF		1018   1021 COARSE																											
XB: LOW		1030   1031 2 AHEL12 SID MRO'S																											
PYR: .05/.10/.25		TLC (SHORT-FORM) + D/L -   1218																											
GYROS: OFF		* 0856 EL-40																											
FDS MODE		CR-5T														EL-40													
XB DATA RATE(MI)		40(30)														CR-5T													
																160(32)													
31 DSN COVERAGE		1535   14 [D]   1725																											
		40   ..... 40																											
		63 [D]   0805 - 1205																											
		60   ..... 63 [D] 0755																											
		60																											
32 DSN COVERAGE		1130   43 [D]   1530																											
		40   ..... 40																											
		2120   43 [D]   0200																											
																40													
S/C 32 INITIAL CONDITIONS		1200 RTLT 33h 8m 38s														0000 RTLT 33h 8m 48s													
RTLT: 33h 8m 28s																													
CCSL: B181		* 1434 PMPCAL IN CMD BUFFER																											
FDSL: 11AF		* 2152   PLSCAL -   2334																											
TWNC: ON		2152   - - - MAGCAL - - -   0054																											
SB: OFF		2152   - - - - PESCAL - - - -   0112																											
XB: LOW																													
PYR: .05/.10/.25																													
GYROS: OFF																													
FDS MODE		CR-5T																											
XB DATA RATE(MI)		160(32)																											
VGR COVERAGE		VGR							ON CALL							VGR							ON CALL						
NOTES		[1] S/C 31=GS-4B @ 0746 XB=2.8K(41) NOT RECOVERABLE																											
		[2] S/C 31=EL-40 @ 0856 XB=40(30)																											
		[3] S/C 31=CR-5T XB=160(32) @ 1033																											
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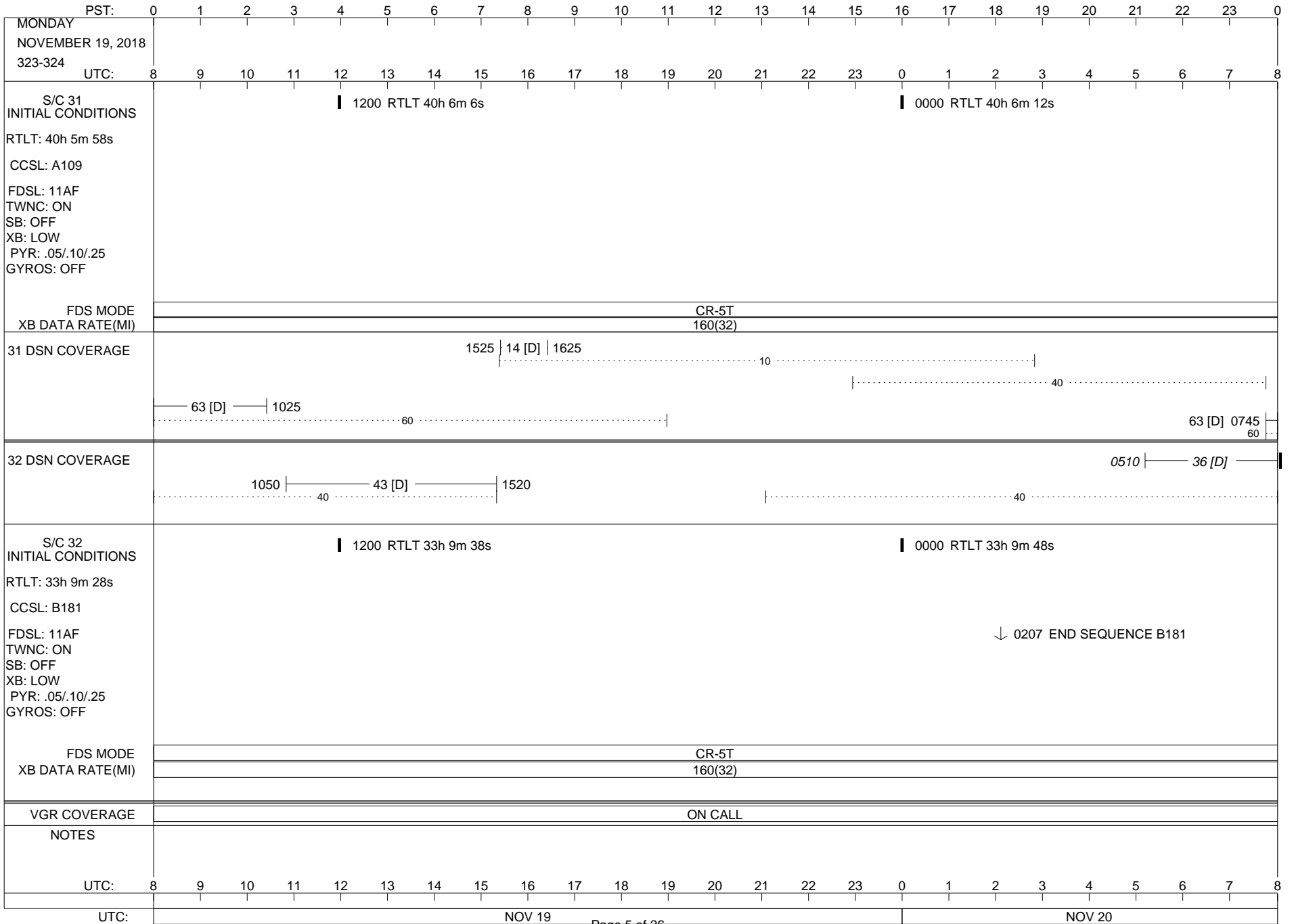
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TUESDAY NOVEMBER 20, 2018 324-325																									
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S/C 31 INITIAL CONDITIONS RTLT: 40h 6m 12s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 40h 6m 20s												█ 0000 RTLT 40h 6m 26s												
																		0109 █ 0110 PWS/RH							
																		↓ 0109 GS-4B 0110							
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	.....  10												.....  40												
	63 [D]   1145												63 [D] 0745												
	60												60												
32 DSN COVERAGE	36 [D]   1025												43 [D]   1515												
	1115   40												40												
S/C 32 INITIAL CONDITIONS RTLT: 33h 9m 48s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 33h 9m 58s												█ 0000 RTLT 33h 10m 8s												
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
VGR COVERAGE													ON CALL												
NOTES	[1] S/C 31=GS-4B @ 0109 XB=2.8K(41) NOT RECOVERABLE																								
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
UTC:	NOV 20												NOV 21												

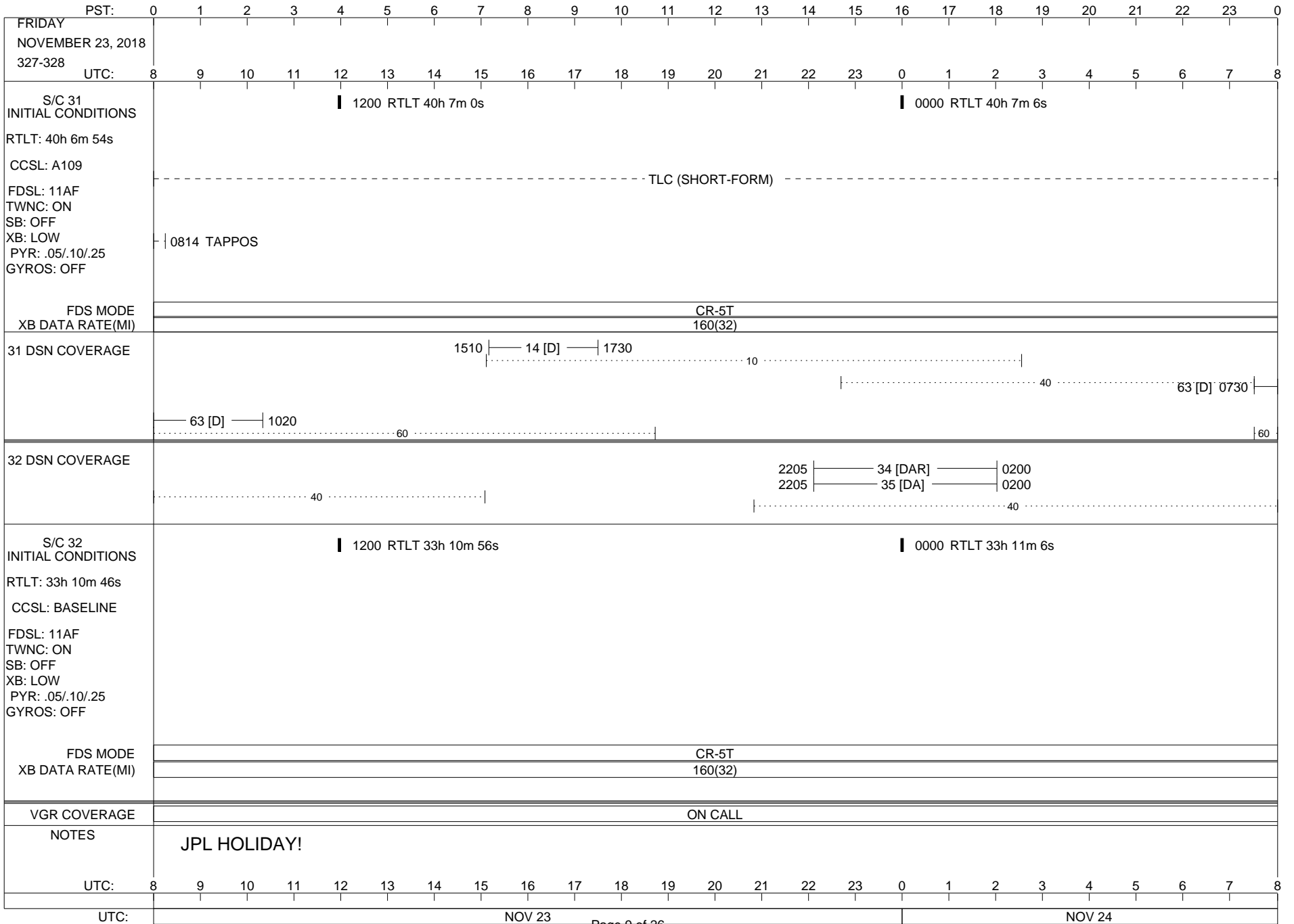
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WEDNESDAY NOVEMBER 21, 2018 325-326																									
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLTL: 40h 6m 26s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 40h 6m 34s												█ 0000 RTLTL 40h 6m 40s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	1515  ----- 14 [D] -----  1800												----- 10 -----   ----- 40 -----												
	----- 63 [D] -----  1105												----- 60 -----												
32 DSN COVERAGE	1210  ----- 43 [B] -----  1510												----- 40 -----												
S/C 32 INITIAL CONDITIONS RTLTL: 33h 10m 8s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 33h 10m 18s												█ 0000 RTLTL 33h 10m 28s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE	ON CALL				VGR				ON CALL																
NOTES																									
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
UTC:	NOV 21												NOV 22												

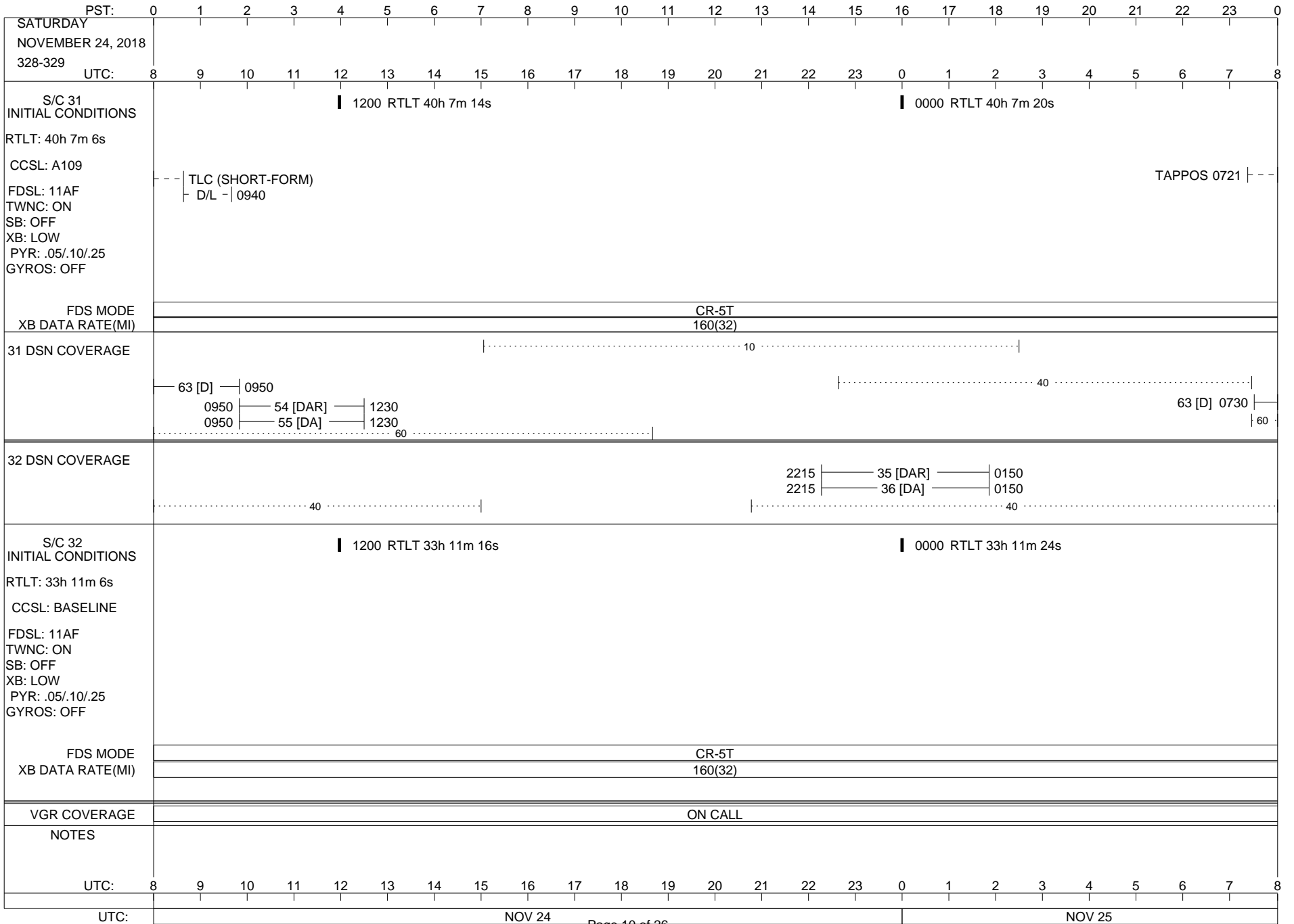


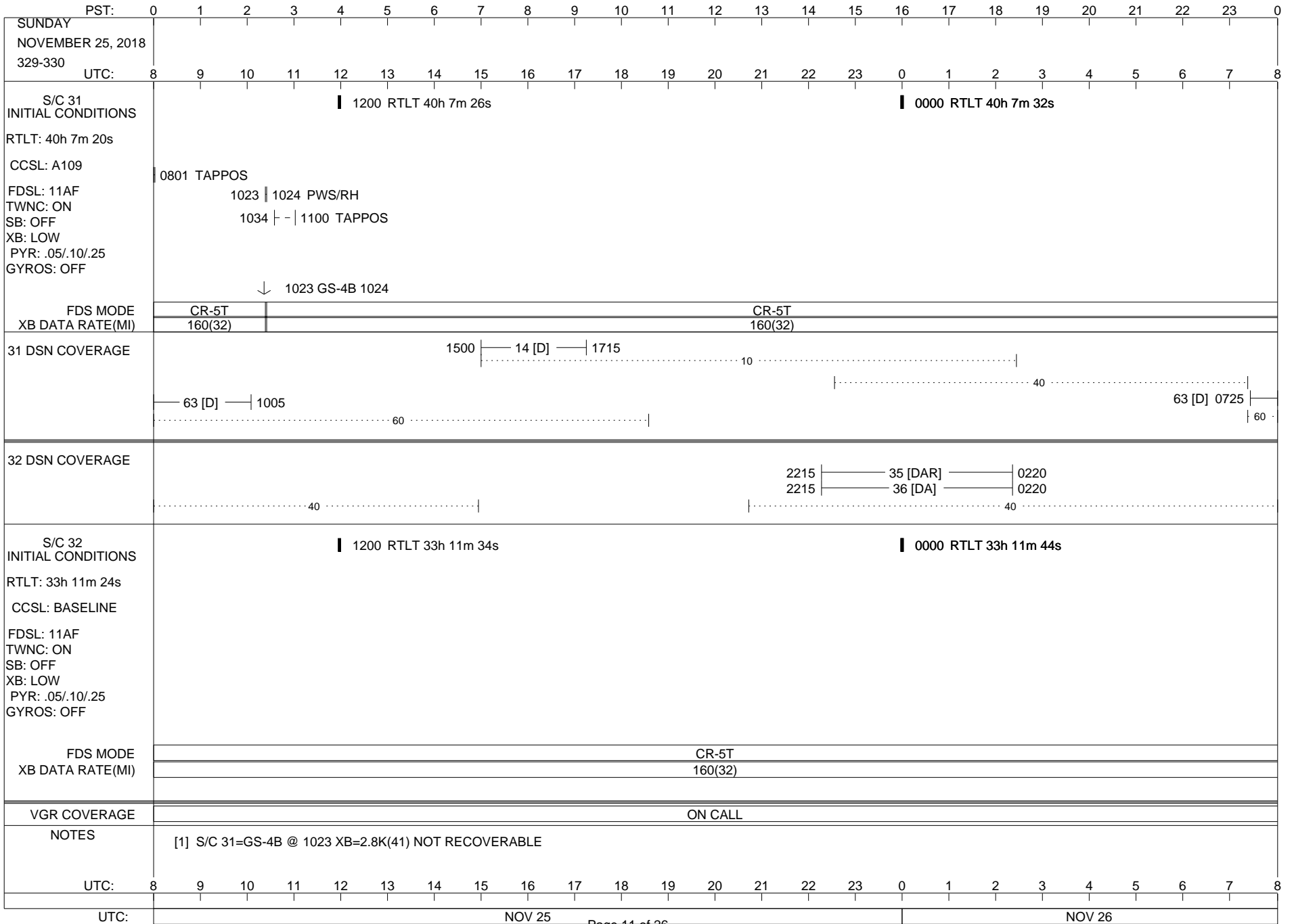
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THURSDAY NOVEMBER 22, 2018 326-327																									
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLT: 40h 6m 40s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 6m 46s												0000 RTLT 40h 6m 54s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	1515  -----  14 [T]  -----  1900												10 ..... -----  40 ..... -----  60 ..... -----  63 [D] 0735  -----  60												
32 DSN COVERAGE	..... -----  40 ..... -----  2055  -----  43 [D]  -----  0055 ..... -----  40 .....																								
S/C 32 INITIAL CONDITIONS RTLT: 33h 10m 28s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 10m 36s												0000 RTLT 33h 10m 46s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE	ON CALL						VGR						ON CALL												
NOTES	[1] S/C 31=GS-4B @ 0723 XB=2.8K(41) NOT RECOVERABLE <b>JPL HOLIDAY!</b>																								
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
UTC:	NOV 22												NOV 23												

ISSUE DATE: 11/26/18 12:18



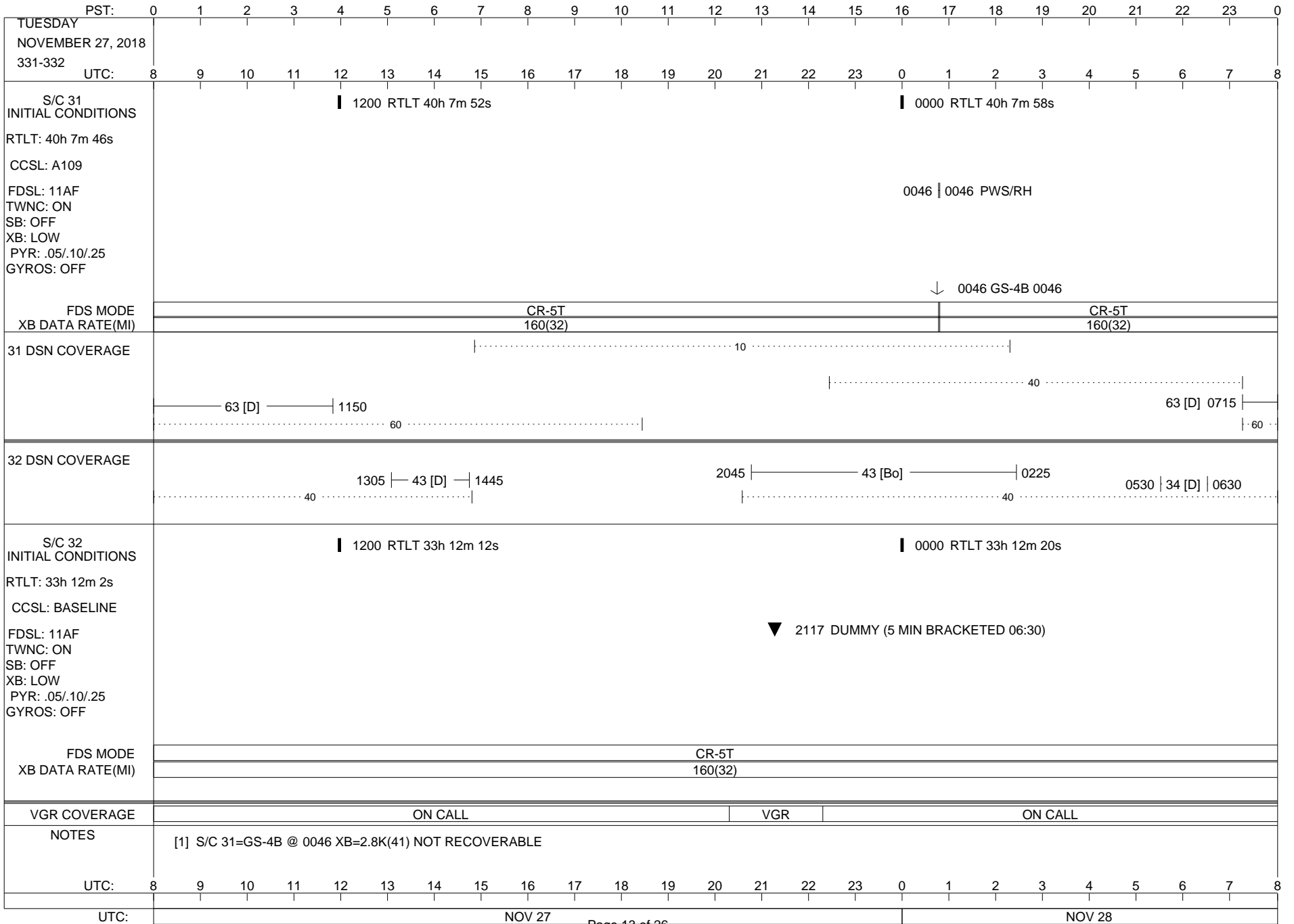
ISSUE DATE: 11/26/18 12:18





PST:	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 NOVEMBER 26, 2018 330-331																									
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS	█ 1200 RTLT 40h 7m 38s												█ 0000 RTLT 40h 7m 46s												
RTLT: 40h 7m 32s																									
CCSL: A109	↓ 1108 YAW=.05, ROLL=.05																								
FDSL: 11AF	1112   -   1135 SSB ASCAL																								
TWNC: ON																									
SB: OFF	↓ 1146 YAW=.10, ROLL=.25																								
XB: LOW																									
PYR: .05/.10/.25																									
GYROS: OFF																									
FDS MODE	1053 EL-40 ↓				↓ 1149 CR-5T																				
XB DATA RATE(MI)	CR-5T 160(32)				EL-40 40(30)				CR-5T 160(32)																
31 DSN COVERAGE																									
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS	█ 1200 RTLT 33h 11m 52s												█ 0000 RTLT 33h 12m 2s												
RTLT: 33h 11m 44s																									
CCSL: BASELINE																									
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	[1] S/C 31=EL-40 @ 1053 XB=40(30) [2] S/C 31=CR-5T @ 1149 XB=160(32)																								
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
UTC:	NOV 26												NOV 27												

ISSUE DATE: 11/26/18 12:18



ISSUE DATE: 11/26/18 12:18

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

WEDNESDAY  
NOVEMBER 28, 2018  
332-333

S/C 31  
INITIAL CONDITIONS  
RTLT: 40h 7m 58s  
CCSL: A109  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLT 40h 8m 4s  
0000 RTLT 40h 8m 10s

↓ 0839 X/B LOW POWER  
↓ 0839 BAY 1 HTR OFF  
-----| 0839 - 1039 GYROS AC CONDITIONING  
↓ 1039 GYROS OFF  
↓ 1047 BAY 1 HTR ON  
↓ 1051 WGY=BC  
▼ 1530 DUMMY (07:38)  
U/L 1555 | - | - - - - - TLC (SHORT-FORM) - - - - -

↓ 0842 EL-40 0843

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

31 DSN COVERAGE

1450 |-----| 14 [T] |-----| 1710  
|-----| 10 |-----| 40  
63 [D] |-----| 1145  
|-----| 60 |-----| 60

32 DSN COVERAGE

|-----| 40 |-----| 40  
0535 |-----| 43 [D] |-----|

S/C 32  
INITIAL CONDITIONS  
RTLT: 33h 12m 20s  
CCSL: BASELINE  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLT 33h 12m 30s  
0000 RTLT 33h 12m 38s

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

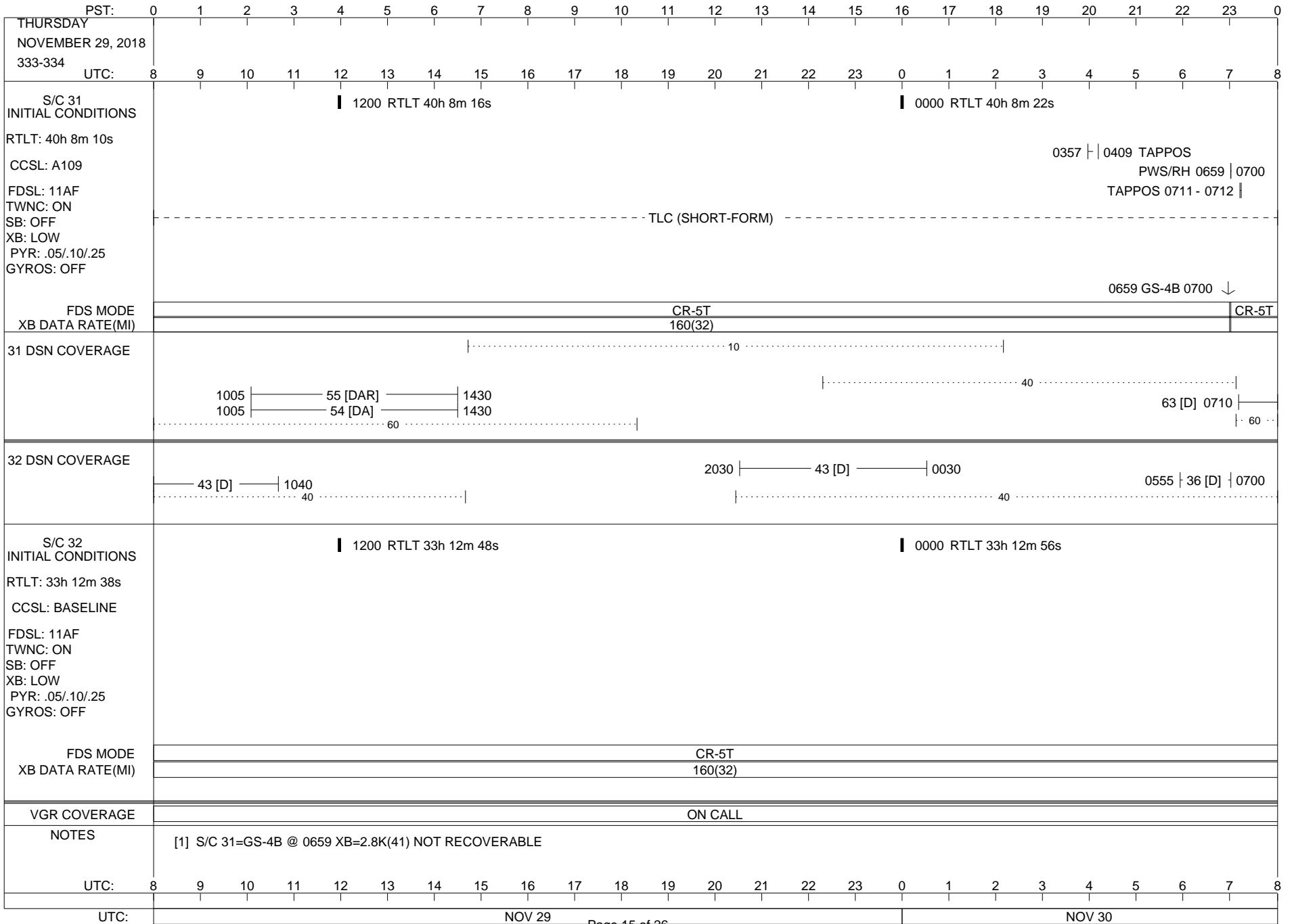
VGR COVERAGE	VGR	ON CALL	VGR	ON CALL
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NOTES  
[1] S/C 31=EL-40 @ 0842 XB=40(30)

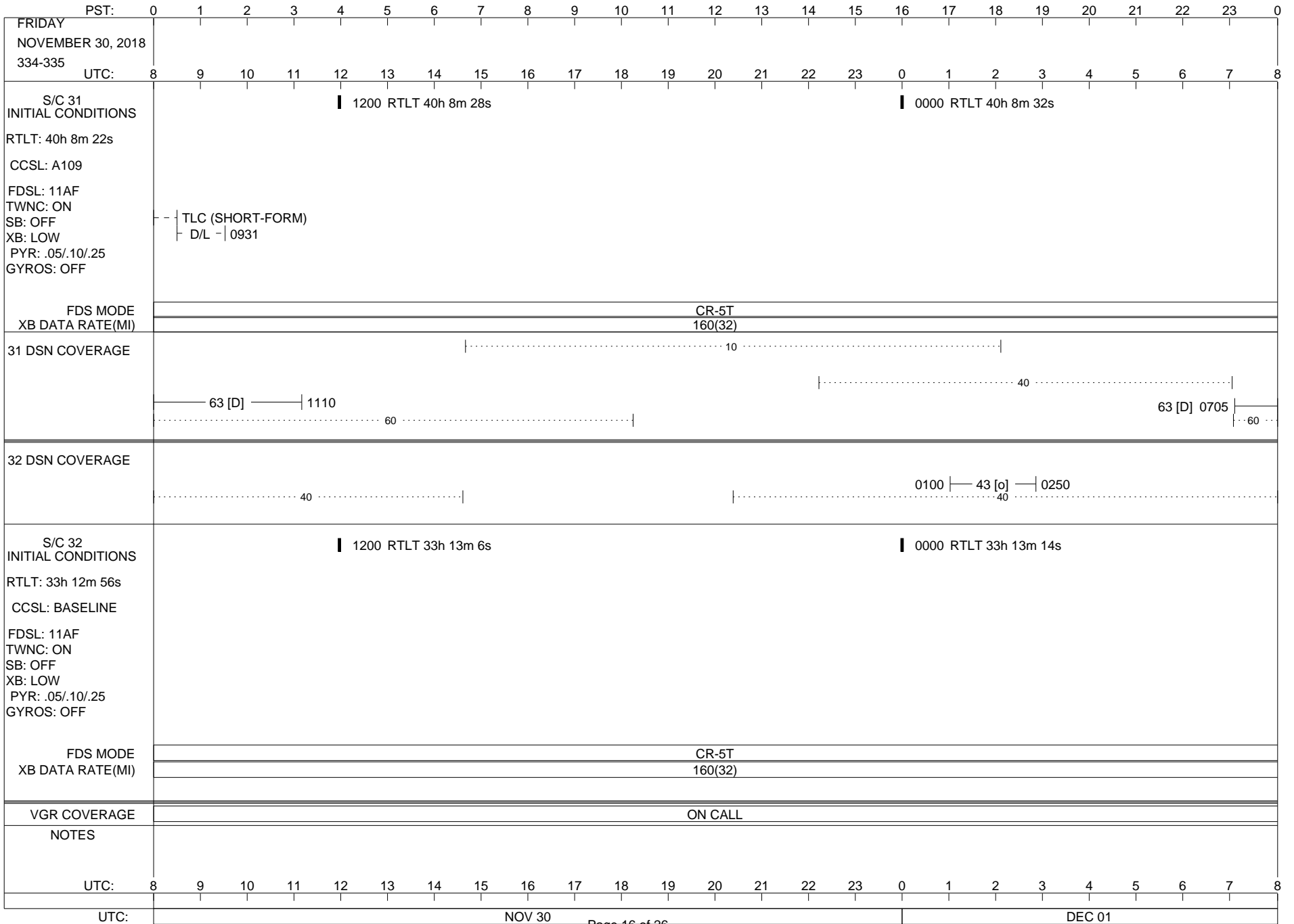
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UTC:	NOV 28														NOV 29									
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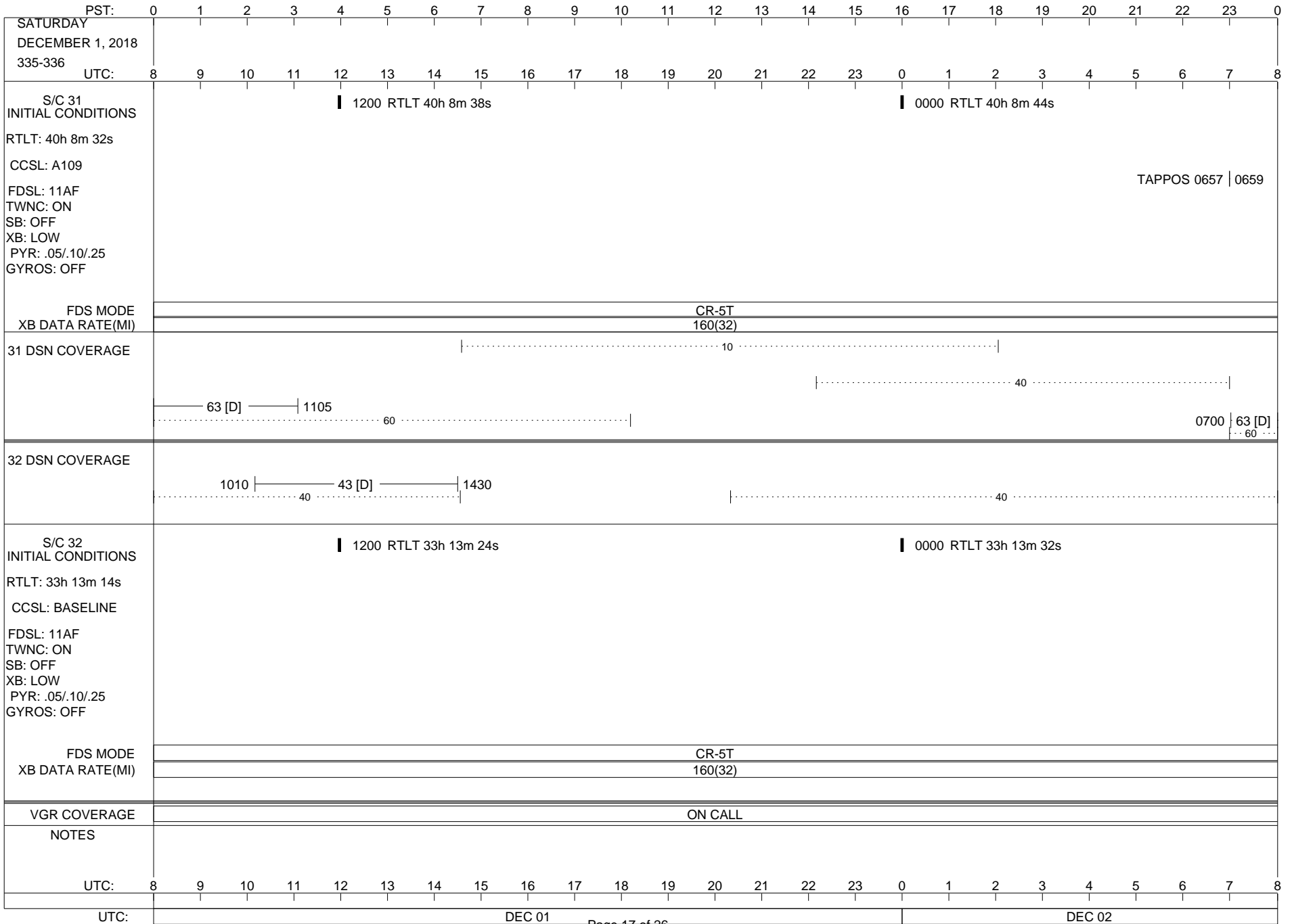
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ISSUE DATE: 11/26/18 12:18



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SUNDAY DECEMBER 2, 2018 336-337																																				
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8											
S/C 31 INITIAL CONDITIONS RTLTL: 40h 8m 44s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 40h 8m 50s												█ 0000 RTLTL 40h 8m 56s																							
	1000 █ 1000 PWS/RH      ↓ 1457 BAY 1 HTR OFF												1011 █ 1026 TAPPOS      ↓ 1501 BAY 2 HTR ON TEST																							
	↓ 0959 GS-4B 1001																																			
FDS MODE	CR-5T												CR-5T																							
XB DATA RATE(MI)	160(32)												160(32)																							
31 DSN COVERAGE	<div style="display: flex; justify-content: space-between;"> <div>63 [D] ————   1220 ..... 60 .....</div> <div>1435  ————— 14 [D] —————  2100 ..... 10 .....</div> <div>..... 40 .....</div> <div>..... 0655   63 [D] ..... 60 .....</div> </div>																																			
32 DSN COVERAGE	<div style="display: flex; justify-content: space-between;"> <div>43 [D] ————   0810 - 1355 ..... 40 .....</div> <div>..... 40 .....</div> </div>																																			
S/C 32 INITIAL CONDITIONS RTLTL: 33h 13m 32s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 33h 13m 40s												█ 0000 RTLTL 33h 13m 50s																							
FDS MODE													CR-5T																							
XB DATA RATE(MI)													160(32)																							
VGR COVERAGE	ON CALL												VGR												ON CALL											
NOTES	[1] S/C 31=GS-4B @ 0959 XB=2.8K(41) NOT RECOVERABLE																																			
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8											
UTC:	DEC 02												DEC 03																							

ISSUE DATE: 11/26/18 12:18

PST:	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 DECEMBER 3, 2018 337-338																										
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	
S/C 31 INITIAL CONDITIONS	█ 1200 RTLT 40h 9m 0s												█ 0000 RTLT 40h 9m 6s													
RTLT: 40h 8m 56s																										
CCSL: A109																										
FDSL: 11AF													↓ 1501 BAY 2 HTR OFF													
TWNC: ON													↓ 1505 BAY 1 HTR ON													
SB: OFF																										
XB: LOW																										
PYR: .05/.10/.25																										
GYROS: OFF																										
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
31 DSN COVERAGE	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>1430 — 14 [D] — 1645</p> <p>..... 10 .....</p> <p>..... 40 .....</p> </div> <div style="width: 45%;"> <p>..... 60 .....</p> <p>..... 0650 — 63 [D] — .....</p> <p>..... 60 .....</p> </div> </div>																									
32 DSN COVERAGE	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>1115 — 43 [D] — 1420</p> <p>..... 40 .....</p> </div> <div style="width: 45%;"> <p>..... 40 .....</p> </div> </div>																									
S/C 32 INITIAL CONDITIONS	█ 1200 RTLT 33h 13m 58s												█ 0000 RTLT 33h 14m 8s													
RTLT: 33h 13m 50s																										
CCSL: BASELINE																										
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:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	
UTC:	DEC 03												DEC 04													

ISSUE DATE: 11/26/18 12:18

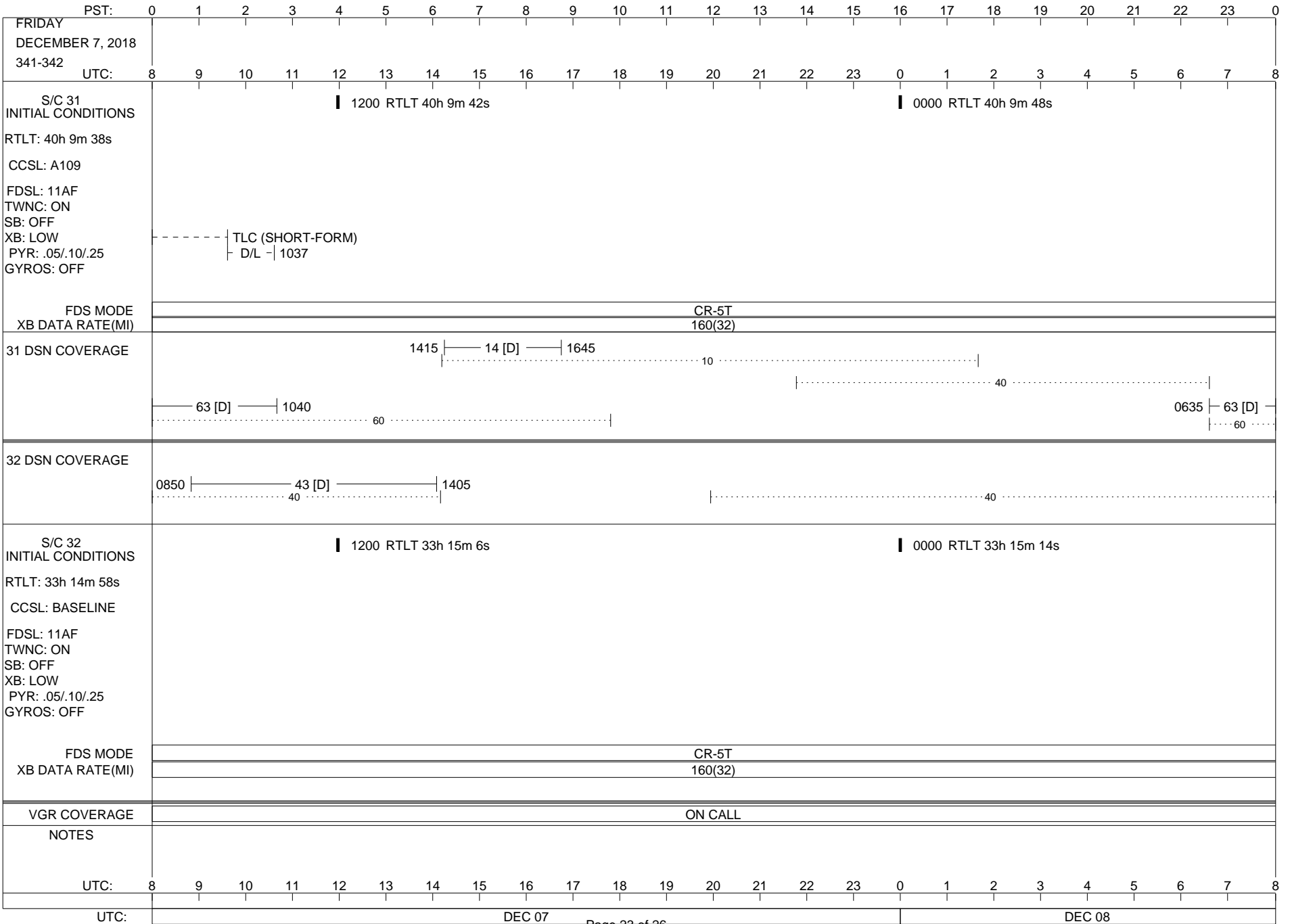
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TUESDAY																													
DECEMBER 4, 2018																													
338-339																													
UTC:		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8			
S/C 31 INITIAL CONDITIONS		1200 RTLT 40h 9m 12s														0000 RTLT 40h 9m 16s													
RTLTL: 40h 9m 6s																													
CCSL: A109																													
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)													
31 DSN COVERAGE		<p>1445   14 [D]   1655</p> <p>..... .....10..... .....40..... .....60.....</p> <p>63 [D]   1005</p> <p>..... .....60..... .....</p>																											
32 DSN COVERAGE		<p>1030   43 [H2]   1415</p> <p>..... .....40..... .....</p> <p>2010   43 [D]   2340</p> <p>..... .....40..... .....</p>																											
S/C 32 INITIAL CONDITIONS		1200 RTLT 33h 14m 16s														0000 RTLT 33h 14m 24s													
RTLTL: 33h 14m 8s																													
CCSL: BASELINE		<p>▼ 1045 EL-40 (19:59)</p> <p>▼ 1101 CCSL B182 (20:15)</p> <p>▼ 1143 CCSTIM F/C (20:57)</p> <p>▼ 1211 CR-5T (21:25)</p>																											
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								VGR								ON CALL											
NOTES		<p>[1] S/C 31=GS-4B @ 0022 XB=2.8K(41) NOT RECOVERABLE</p> <p>[2] VGR2 DSS-43 HP TRX OFF &lt; 13:00</p>																											
UTC:		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8			
UTC:		DEC 04														DEC 05													

ISSUE DATE: 11/26/18 12:18

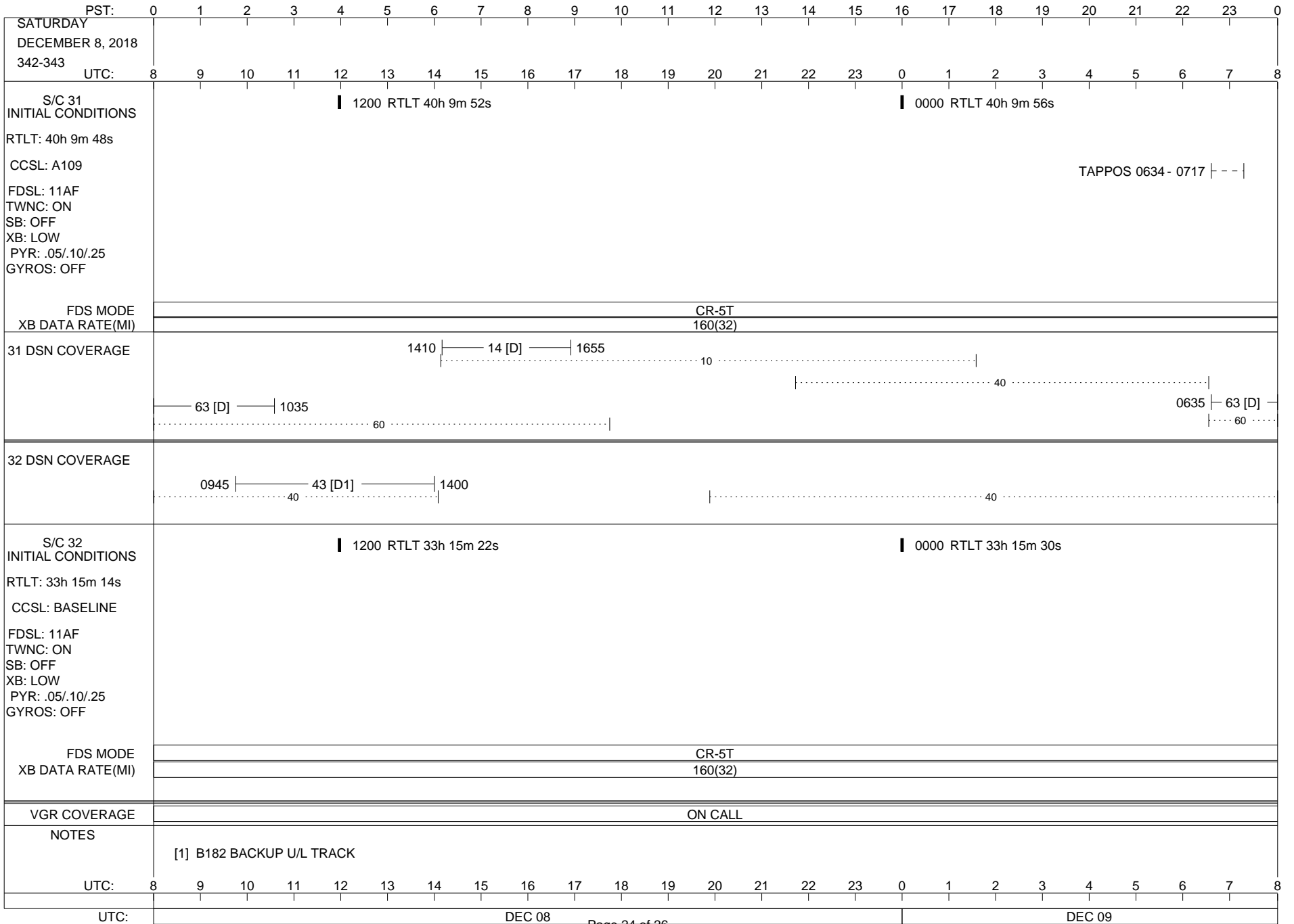
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WEDNESDAY DECEMBER 5, 2018 339-340																									
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLT: 40h 9m 16s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 40h 9m 22s												0000 RTLT 40h 9m 28s												
	1638  --- MAGCAL ---  1940 1638  --- PESCAL ---  1958 ▼ 1630 DUMMY (08:39) U/L 1700   -  ----- TLC (SHORT-FORM) -----																								
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
31 DSN COVERAGE	1540  ----- 14 [T] -----  2015  ----- 10 -----   ----- 40 -----   ----- 63 [D] 0800 -----   ----- 60 -----																								
32 DSN COVERAGE	1100  ----- 43 [D] -----  1415  ----- 40 -----												1955  ----- 43 [D] -----  2340  ----- 40 -----												
S/C 32 INITIAL CONDITIONS RTLT: 33h 14m 24s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 33h 14m 32s												0000 RTLT 33h 14m 42s												
	* 2033   2037 B182 CHKSUM												* 2058   2105 CCSTIM COARSE 2115   2118 FINE												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)						EL-40 2000↓ 40(30)						↓ 2126 CR-5T 160(32)												
VGR COVERAGE	ON CALL				VGR				ON CALL				VGR				ON CALL								
NOTES	[1] S/C 32=EL-40 @ 2000 XB=40(30) [2] S/C 32=CR-5T @ 2126 XB=160(32)																								
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
UTC:	DEC 05												DEC 06												

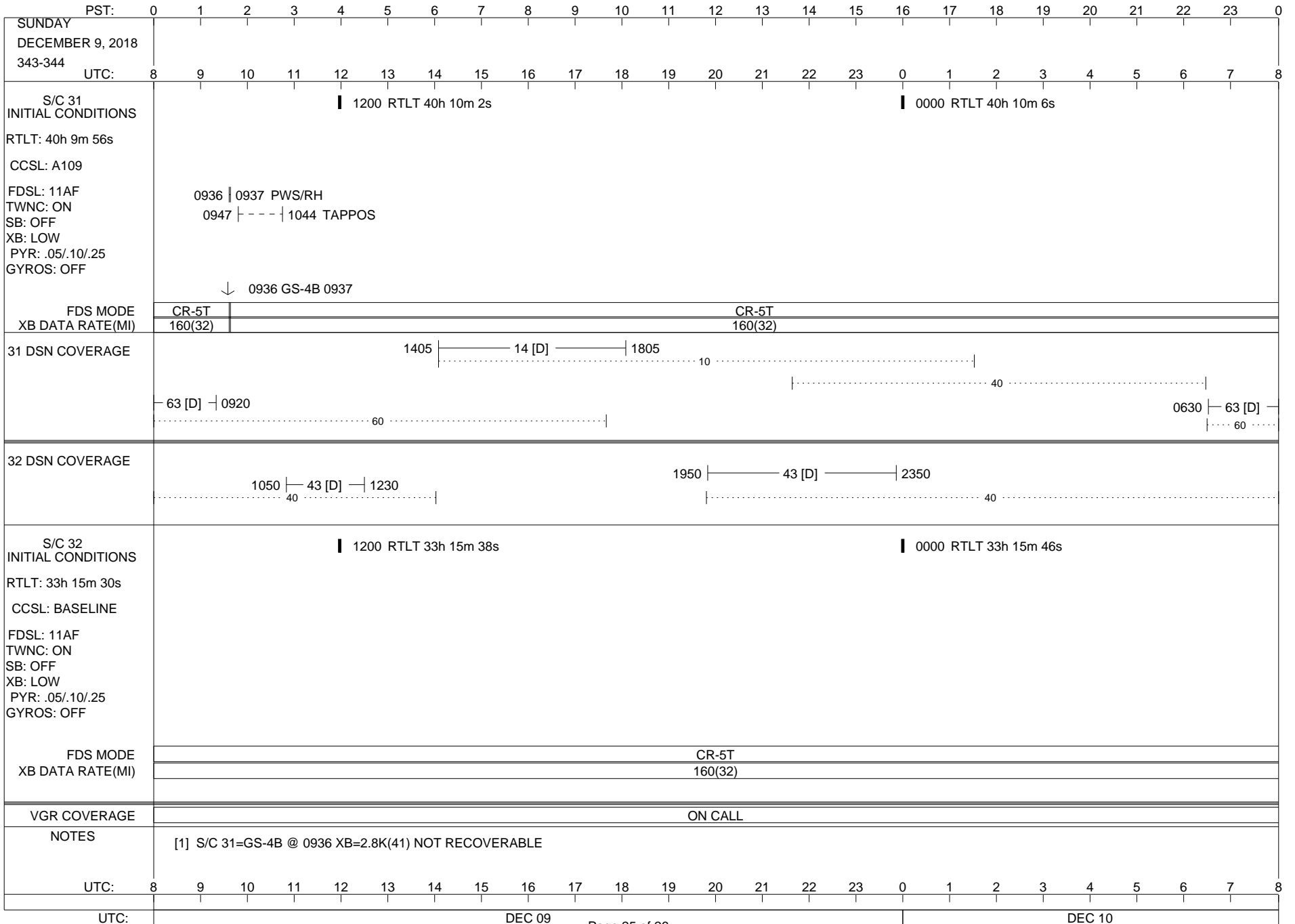
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THURSDAY DECEMBER 6, 2018 340-341																										
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	
S/C 31 INITIAL CONDITIONS RTLTL: 40h 9m 28s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 40h 9m 32s												0000 RTLTL 40h 9m 38s													
													0334   -   0403 TAPPOS PWS/RH 0635   0637 TAPPOS 0647 - 0730   - - -													
	----- TLC (SHORT-FORM) -----																									
																									0635 GS-4B 0637 ↓	
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
31 DSN COVERAGE	..... 10 .....																									
	63 [D]   0800 - 1005   ..... 40 .....												0640   63 [D]													
	1005   55 [DAR]   1145												..... 60 .....													
	1005   65 [DA]   1145												..... 60 .....													
32 DSN COVERAGE	..... 40 .....																									
	1015   ..... 43 [D] .....   1415												..... 40 .....													
S/C 32 INITIAL CONDITIONS RTLTL: 33h 14m 42s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 33h 14m 50s												0000 RTLTL 33h 14m 58s													
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 @ 0635 XB=2.8K(41) NOT RECOVERABLE																									
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	
UTC:	DEC 06													Page 22 of 26										DEC 07		

ISSUE DATE: 11/26/18 12:18









PST:	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 DECEMBER 10, 2018 344-345	UTC: 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8		
S/C 31 INITIAL CONDITIONS RTLT: 40h 10m 6s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLT 40h 10m 10s</p>																										
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)													
31 DSN COVERAGE	<p>1405  —— 14 ——  1620</p> <p>63 [D]  ——  1300</p> <p>.....60..... </p>																										
32 DSN COVERAGE	<p>1035  —— 43 [D] ——  1355</p> <p>.....40..... </p>																										
S/C 32 INITIAL CONDITIONS RTLT: 33h 15m 46s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLT 33h 15m 54s</p>																										
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)													
VGR COVERAGE	ON CALL																										
NOTES																											
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8		
UTC:	DEC 10													Page 26 of 26											DEC 11		