

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: April 12, 2017

For the Period: 04/13/17 to 05/01/17 (17/103 – 17/121)

| DSN OPSCHIEF | 230-102 | SCIENCE  | FLIGHT TEAM   | 600-100 |
|--------------|---------|--|---|---------|
| DSOT         | 230-102 | CRS bryant@mail630.gsfc.nasa.gov<br>LECP r.decker@jhuapl.edu<br>MAG u2mha@lepvax.gsfc.nasa.gov<br>PLS vgr@space.mit.edu<br>PWS wsk@space.physics.uiowa.edu<br>Leonard.F.Burlaga@nasa.gov<br>Donald-Gurnett@uiowa.edu | Dodd, S.<br>Hall, J.<br>Howard, S.<br>Ko, A.<br>Ledeboer, W.<br>Ludwig, R.<br>Matsumoto, S.<br>Medina, E.<br>Peralta, F.<br>Weeks, T.<br>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: 04/19/17 08:19

| 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<br>APRIL 13, 2017<br>103-104   |   |   |   |    |    |    |    |    |    |    |    |    |  |    |    |    |    |    |    |    |    |    |    |    |   |  |
| 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<br>INITIAL CONDITIONS<br>RTLTL: 38h 9m 54s<br>CCSL: A102B<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25<br>GYROS: OFF  | 1200 RTLTL 38h 9m 52s                               |   |   |    |    |    |    |    |    |    |    |    | 0000 RTLTL 38h 9m 52s  |    |    |    |    |    |    |    |    |    |    |    |   |  |
| FDS MODE  | CR-5T   |   |   |    |    |    |    |    |    |    |    |    | CR-5T  |    |    |    |    |    |    |    |    |    |    |    |   |  |
| XB DATA RATE(MI)  | 160(32)   |   |   |    |    |    |    |    |    |    |    |    | 160(32)  |    |    |    |    |    |    |    |    |    |    |    |   |  |
| 31 DSN COVERAGE   | 14 [D]   1445                                       |   |   |    |    |    |    |    |    |    |    |    | 2010   ---   2104 TAPPOS<br>2311   2313 PWS/RH<br>2323   ----   0031 TAPPOS<br>↓ 2311 GS-4B 2313 |    |    |    |    |    |    |    |    |    |    |    |   |  |
| 32 DSN COVERAGE   | 1145   43 [D]   1325                                |   |   |    |    |    |    |    |    |    |    |    | 1840   35 [D]   2245<br>0030   43 [D]   0540   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| S/C 32<br>INITIAL CONDITIONS<br>RTLTL: 31h 36m 28s<br>CCSL: B175<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25/<br>GYROS: OFF | 1200 RTLTL 31h 36m 26s                              |   |   |    |    |    |    |    |    |    |    |    | 0000 RTLTL 31h 36m 22s   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| 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 @ 2311 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:  | APR 13  |   |   |    |    |    |    |    |    |    |    |    | APR 14   |    |    |    |    |    |    |    |    |    |    |    |   |  |

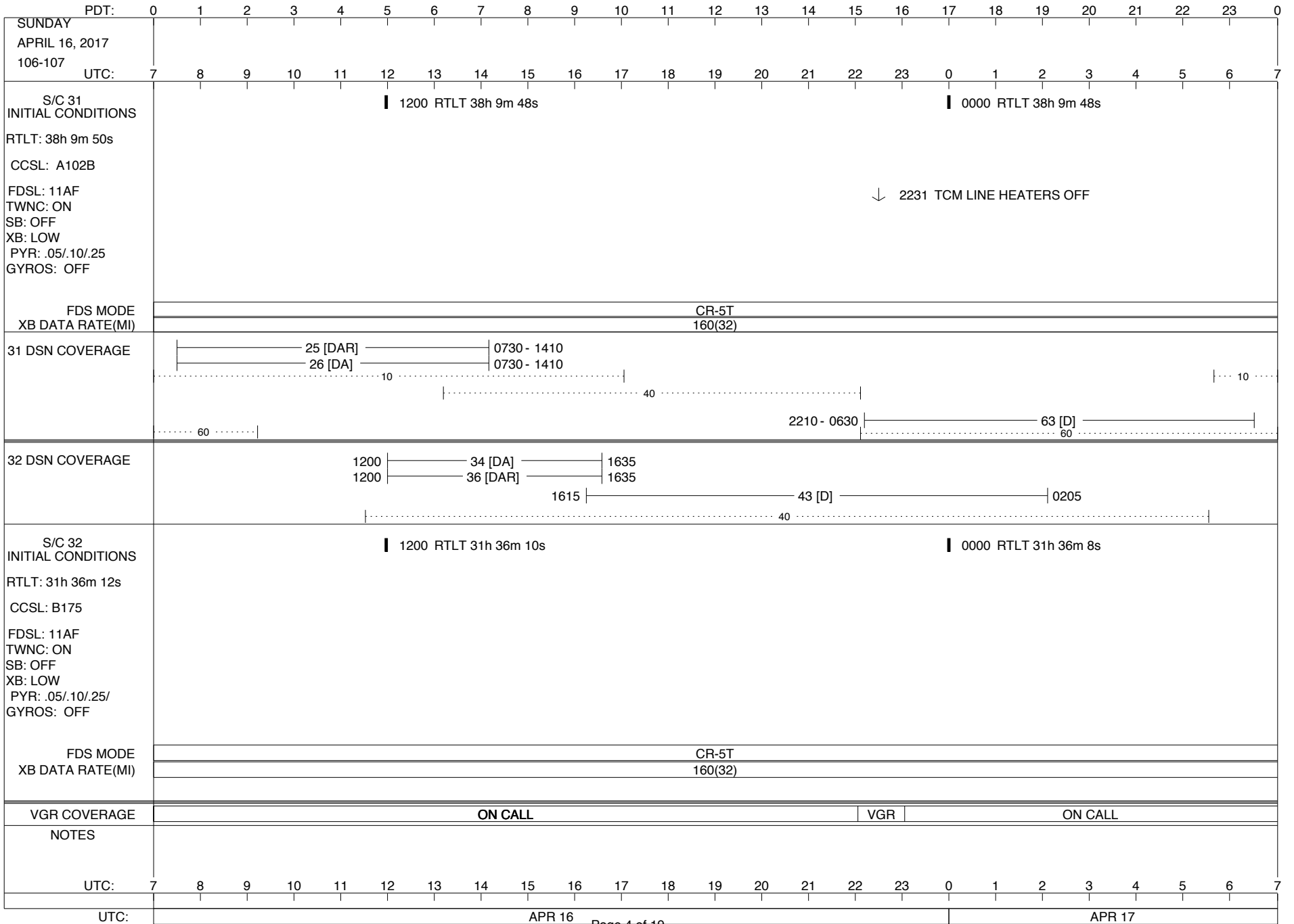
ISSUE DATE: 04/19/17 08:19

| 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<br>APRIL 14, 2017<br>104-105   |   |   |   |    |    |    |    |    |    |    |    |    |  |        |    |    |    |    |    |    |    |    |    |    |   |  |
| 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<br>INITIAL CONDITIONS<br>RTLTL: 38h 9m 52s<br>CCSL: A102B<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25<br>GYROS: OFF  | 1200 RTLTL 38h 9m 52s   |   |   |    |    |    |    |    |    |    |    |    | 0000 RTLTL 38h 9m 50s  |        |    |    |    |    |    |    |    |    |    |    |   |  |
| FDS MODE<br>XB DATA RATE(MI)  |   |   |   |    |    |    |    |    |    |    |    |    | CR-5T<br>160(32)   |        |    |    |    |    |    |    |    |    |    |    |   |  |
| 31 DSN COVERAGE   | 0800   24 [DA]   1015<br>0800   26 [DAR]   1015<br>..... 10 ..... |   |   |    |    |    |    |    |    |    |    |    | 2225   63 [D]   0225 ..... 10 .....                                      |        |    |    |    |    |    |    |    |    |    |    |   |  |
|   | 63 [D]   0820 ..... 60 .....                                      |   |   |    |    |    |    |    |    |    |    |    | 0215 - 0635   55 [DA]   .....<br>0215 - 0635   65 [DAR]   ..... 60 ..... |        |    |    |    |    |    |    |    |    |    |    |   |  |
| 32 DSN COVERAGE   | 1140   43 [D]   1410<br>..... 40 .....                            |   |   |    |    |    |    |    |    |    |    |    | 1825   34 [D]   2245<br>..... 40 .....                                   |        |    |    |    |    |    |    |    |    |    |    |   |  |
| 0245   43 [D]   0535<br>..... 40 .....  |   |   |   |    |    |    |    |    |    |    |    |    |  |        |    |    |    |    |    |    |    |    |    |    |   |  |
| S/C 32<br>INITIAL CONDITIONS<br>RTLTL: 31h 36m 22s<br>CCSL: B175<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25/<br>GYROS: OFF | 1200 RTLTL 31h 36m 20s  |   |   |    |    |    |    |    |    |    |    |    | 0000 RTLTL 31h 36m 18s   |        |    |    |    |    |    |    |    |    |    |    |   |  |
| FDS MODE<br>XB DATA RATE(MI)  |   |   |   |    |    |    |    |    |    |    |    |    | CR-5T<br>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:  | APR 14  |   |   |    |    |    |    |    |    |    |    |    |  | APR 15 |    |    |    |    |    |    |    |    |    |    |   |  |

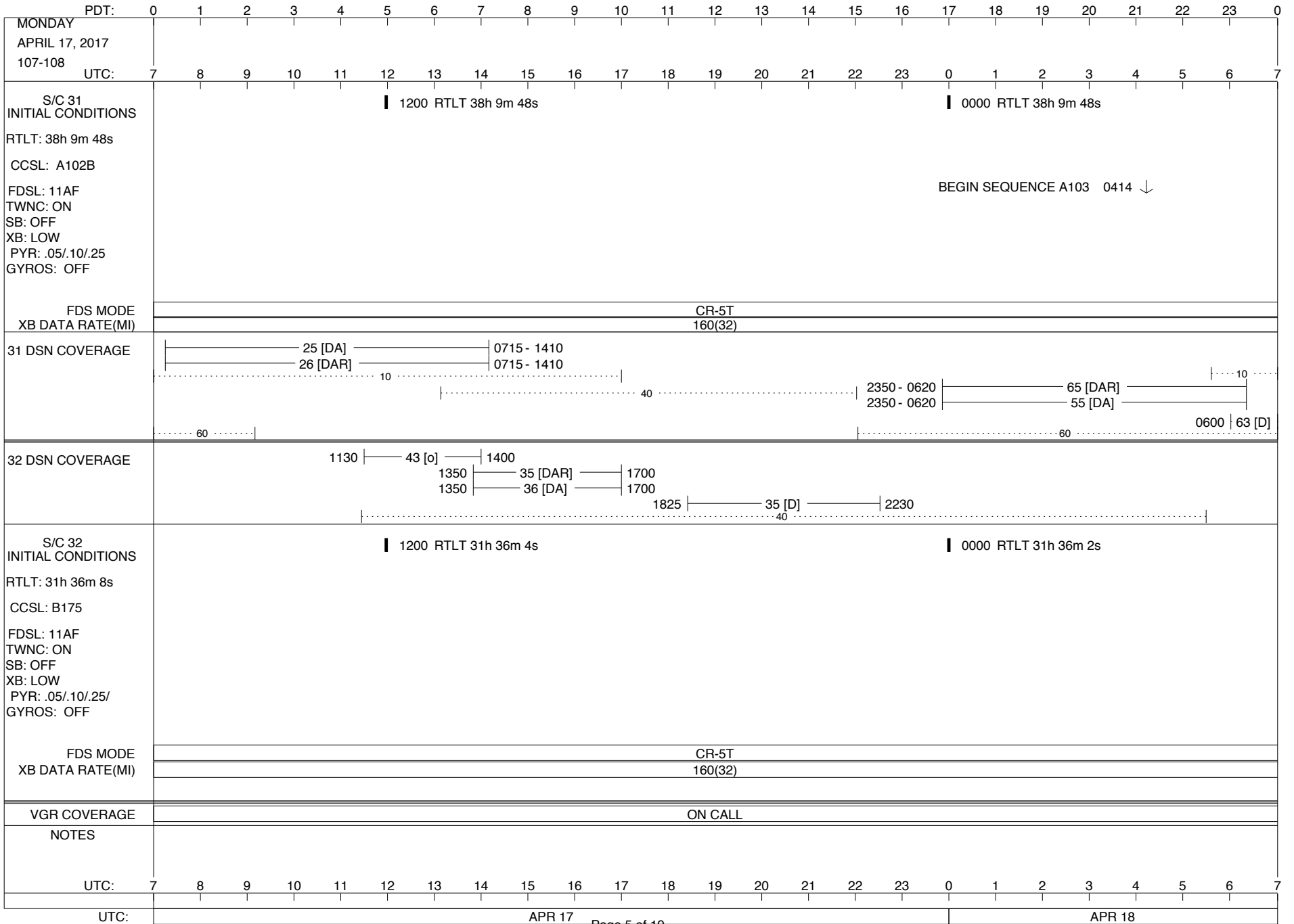
ISSUE DATE: 04/19/17 08:19

| 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<br>APRIL 15, 2017<br>105-106   |   |   |   |    |    |    |    |    |    |    |    |    |  |    |    |    |    |    |    |    |    |    |    |    |   |
| 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<br>INITIAL CONDITIONS<br>RTLTL: 38h 9m 50s<br>CCSL: A102B<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25<br>GYROS: OFF  | 1200 RTLTL 38h 9m 50s   |   |   |    |    |    |    |    |    |    |    |    | 0000 RTLTL 38h 9m 50s  |    |    |    |    |    |    |    |    |    |    |    |   |
| FDS MODE  | CR-5T   |   |   |    |    |    |    |    |    |    |    |    | CR-5T  |    |    |    |    |    |    |    |    |    |    |    |   |
| XB DATA RATE(MI)  | 160(32)   |   |   |    |    |    |    |    |    |    |    |    | 160(32)  |    |    |    |    |    |    |    |    |    |    |    |   |
| 31 DSN COVERAGE   | 24 [DAR] ————— 0725 - 1205<br>26 [DA] ————— 0725 - 1205<br>..... 10 .....<br>..... 40 .....<br>..... 60 ..... |   |   |    |    |    |    |    |    |    |    |    | 2215   63 [D]   0000 ..... 10 .....<br>0000 - 0635   65 [DA]   .....<br>0000 - 0635   55 [DAR]   .....<br>..... 60 ..... |    |    |    |    |    |    |    |    |    |    |    |   |
| 32 DSN COVERAGE   | ..... 1540   ..... 40 .....<br>..... 43 [D]   ..... 0535  |   |   |    |    |    |    |    |    |    |    |    |  |    |    |    |    |    |    |    |    |    |    |    |   |
| S/C 32<br>INITIAL CONDITIONS<br>RTLTL: 31h 36m 18s<br>CCSL: B175<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25/<br>GYROS: OFF | 1200 RTLTL 31h 36m 14s  |   |   |    |    |    |    |    |    |    |    |    | 0000 RTLTL 31h 36m 12s   |    |    |    |    |    |    |    |    |    |    |    |   |
| 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 @ 0211 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:  | APR 15  |   |   |    |    |    |    |    |    |    |    |    | APR 16   |    |    |    |    |    |    |    |    |    |    |    |   |

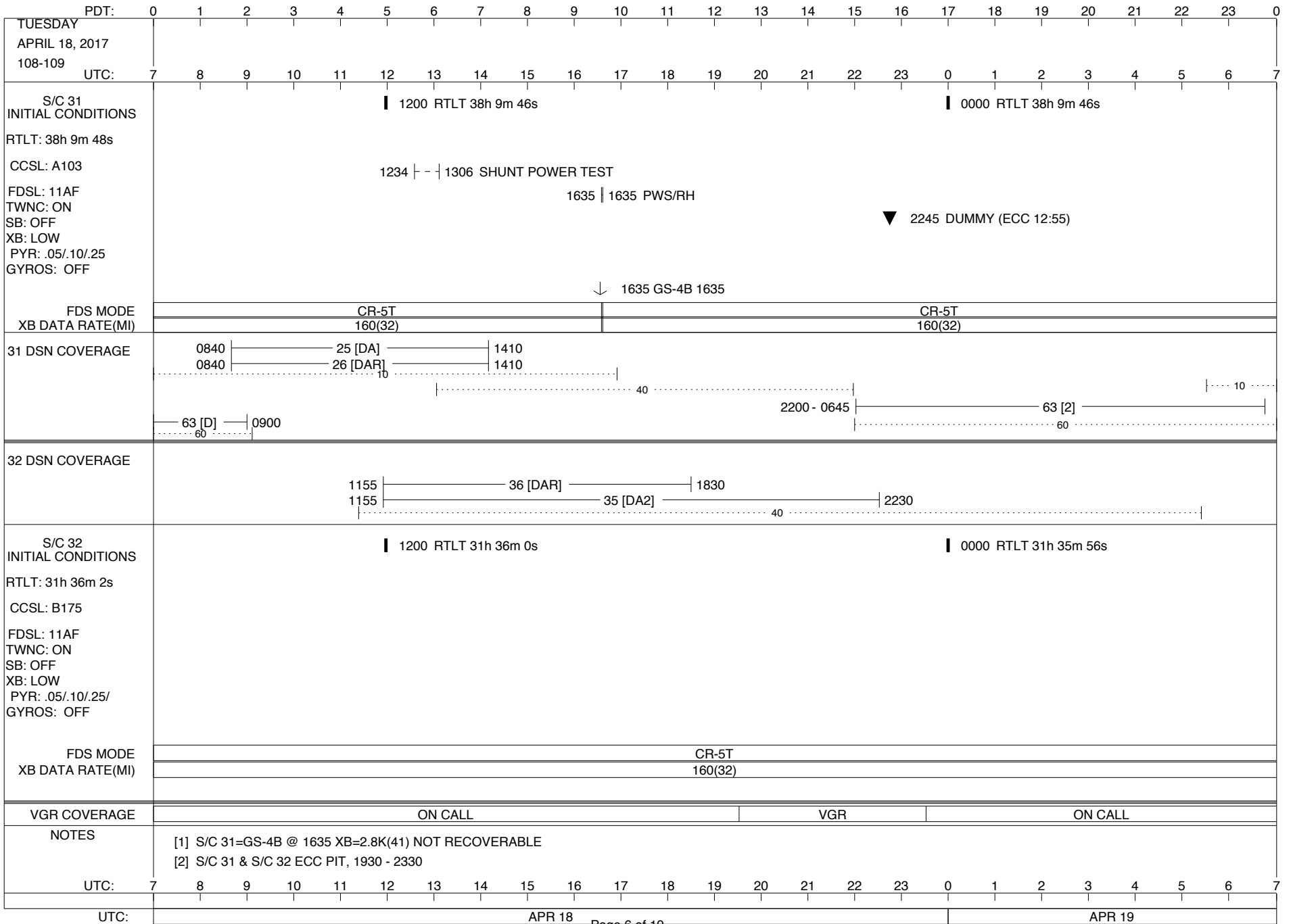
ISSUE DATE: 04/19/17 08:19



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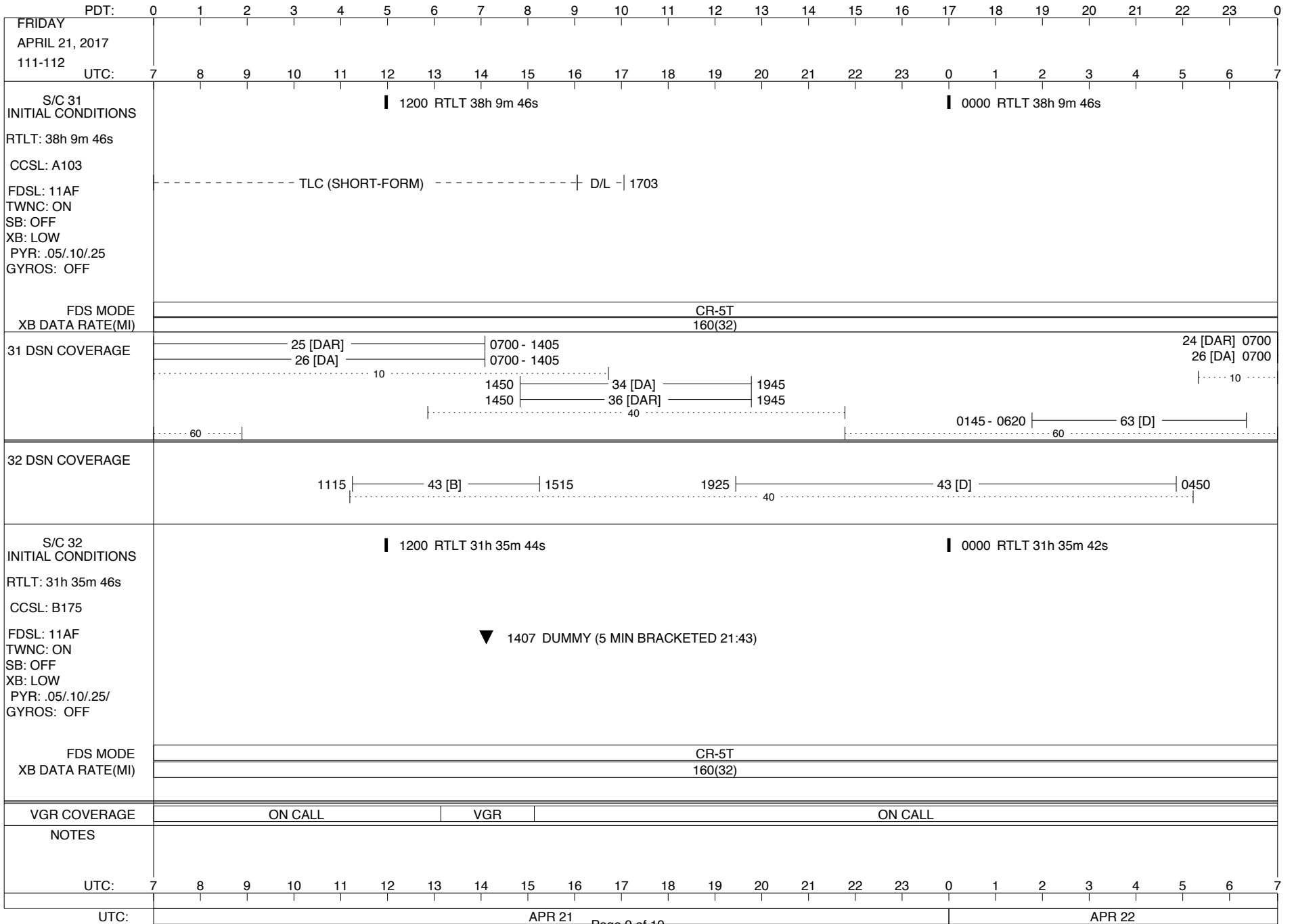
ISSUE DATE: 04/19/17 08:19

| 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<br>APRIL 19, 2017<br>109-110   |   |   |   |    |    |    |    |    |    |    |    |    |   |    |    |    |    |    |         |    |    |    |    |    |   |
| 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<br>INITIAL CONDITIONS<br>RTLT: 38h 9m 46s<br>CCSL: A103<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25<br>GYROS: OFF   | 1200 RTLT 38h 9m 46s  |   |   |    |    |    |    |    |    |    |    |    | 0000 RTLT 38h 9m 46s                            |    |    |    |    |    |         |    |    |    |    |    |   |
| FDS MODE   | CR-5T   |   |   |    |    |    |    |    |    |    |    |    |   |    |    |    |    |    |         |    |    |    |    |    |   |
| XB DATA RATE(MI)   | 160(32)   |   |   |    |    |    |    |    |    |    |    |    |   |    |    |    |    |    |         |    |    |    |    |    |   |
| 31 DSN COVERAGE  | 15 [DAR] 0710 - 1030<br>24 [DA] 0710 - 1030                             |   |   |    |    |    |    |    |    |    |    |    | U/L 0125   -   - - - - TLC (SHORT-FORM) - - - - |    |    |    |    |    |         |    |    |    |    |    |   |
|  | 10  |   |   |    |    |    |    |    |    |    |    |    | 10  |    |    |    |    |    |         |    |    |    |    |    |   |
|  | 60  |   |   |    |    |    |    |    |    |    |    |    | 40  |    |    |    |    |    |         |    |    |    |    |    |   |
|  |   |   |   |    |    |    |    |    |    |    |    |    | 0100   63 [T]   0505                            |    |    |    |    |    |         |    |    |    |    |    |   |
|  |   |   |   |    |    |    |    |    |    |    |    |    | 60  |    |    |    |    |    |         |    |    |    |    |    |   |
| 32 DSN COVERAGE  | 1150   34 [DA]   1810<br>1150   35 [DAR]   1955                         |   |   |    |    |    |    |    |    |    |    |    | 2030   - -   2108 SHUNT POWER TEST              |    |    |    |    |    |         |    |    |    |    |    |   |
|  |   |   |   |    |    |    |    |    |    |    |    |    | 1935   43 [D]   0210                            |    |    |    |    |    |         |    |    |    |    |    |   |
|  |   |   |   |    |    |    |    |    |    |    |    |    | 40  |    |    |    |    |    |         |    |    |    |    |    |   |
| S/C 32<br>INITIAL CONDITIONS<br>RTLT: 31h 35m 56s<br>CCSL: B175<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25/<br>GYROS: OFF | 1200 RTLT 31h 35m 54s   |   |   |    |    |    |    |    |    |    |    |    | 0000 RTLT 31h 35m 52s                           |    |    |    |    |    |         |    |    |    |    |    |   |
| FDS MODE   | CR-5T   |   |   |    |    |    |    |    |    |    |    |    | CR-5T   |    |    |    |    |    |         |    |    |    |    |    |   |
| XB DATA RATE(MI)   | 160(32)   |   |   |    |    |    |    |    |    |    |    |    | 160(32)   |    |    |    |    |    |         |    |    |    |    |    |   |
| VGR COVERAGE   | ON CALL   |   |   |    |    |    |    |    |    |    |    |    | VGR   |    |    |    |    |    | ON CALL |    |    |    |    |    |   |
| NOTES  | [1] S/C 31=EL-40 @ 2008 XB=40(30)<br>[2] S/C 32=CR-5T @ 2047 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:   | APR 19  |   |   |    |    |    |    |    |    |    |    |    | APR 20  |    |    |    |    |    |         |    |    |    |    |    |   |



| 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<br>APRIL 20, 2017<br>110-111   |  |   |   |    |    |    |    |    |    |    |    |    |   |  |        |    |    |    |    |    |    |    |    |    |   |  |  |  |
| 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<br>INITIAL CONDITIONS<br>RTLTL: 38h 9m 46s<br>CCSL: A103<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25<br>GYROS: OFF   | 1200 RTLTL 38h 9m 46s  |   |   |    |    |    |    |    |    |    |    |    | 0000 RTLTL 38h 9m 46s                           |  |        |    |    |    |    |    |    |    |    |    |   |  |  |  |
| ----- TLC (SHORT-FORM) -----  |  |   |   |    |    |    |    |    |    |    |    |    |   |  |        |    |    |    |    |    |    |    |    |    |   |  |  |  |
|   |  |   |   |    |    |    |    |    |    |    |    |    |   | 1946  -----  2054 TAPPOS<br>2248   2249 PWS/RH<br>2259   TAPPOS   0021 |        |    |    |    |    |    |    |    |    |    |   |  |  |  |
|   |  |   |   |    |    |    |    |    |    |    |    |    |   | ↓ 2248 GS-4B 2249  |        |    |    |    |    |    |    |    |    |    |   |  |  |  |
| FDS MODE  | CR-5T  |   |   |    |    |    |    |    |    |    |    |    | CR-5T   |  |        |    |    |    |    |    |    |    |    |    |   |  |  |  |
| XB DATA RATE(MI)  | 160(32)  |   |   |    |    |    |    |    |    |    |    |    | 160(32)   |  |        |    |    |    |    |    |    |    |    |    |   |  |  |  |
| 31 DSN COVERAGE   | 24 [DAR] ----- 0705 - 1025<br>25 [DA] ----- 0705 - 1025<br>..... 10 .....<br><br>..... 40 .....<br>2340  ----- 55 [DA] ----- 0500<br>2340  ----- 65 [DAR] ----- 0500<br><br>..... 60 .....<br>..... 0500 - 0645 ----- 63 [D] ----- |   |   |    |    |    |    |    |    |    |    |    | 25 [DAR] 0700<br>26 [DA] 0700<br>..... 10 ..... |  |        |    |    |    |    |    |    |    |    |    |   |  |  |  |
| 32 DSN COVERAGE   | 1145  ----- 34 [DA] ----- 1540<br>1145  ----- 36 [DAR] ----- 1540<br><br>..... 40 .....<br>1815  ----- 34 [D] ----- 2215<br><br>..... 40 .....   |   |   |    |    |    |    |    |    |    |    |    |   |  |        |    |    |    |    |    |    |    |    |    |   |  |  |  |
| S/C 32<br>INITIAL CONDITIONS<br>RTLTL: 31h 35m 52s<br>CCSL: B175<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25/<br>GYROS: OFF | 1200 RTLTL 31h 35m 50s   |   |   |    |    |    |    |    |    |    |    |    | 0000 RTLTL 31h 35m 46s                          |  |        |    |    |    |    |    |    |    |    |    |   |  |  |  |
| 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 @ 2248 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:  | APR 20   |   |   |    |    |    |    |    |    |    |    |    |   |  | APR 21 |    |    |    |    |    |    |    |    |    |   |  |  |  |

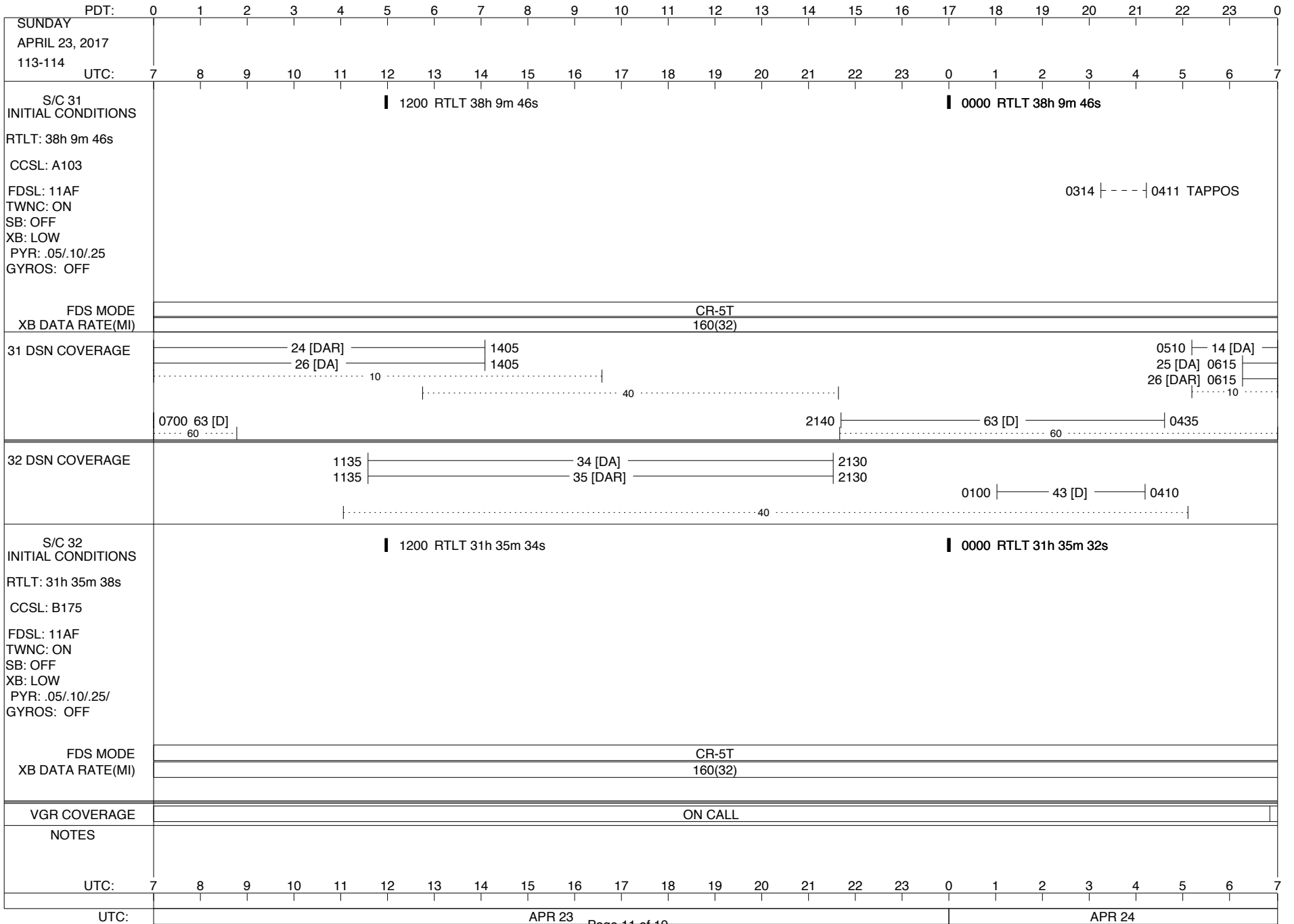
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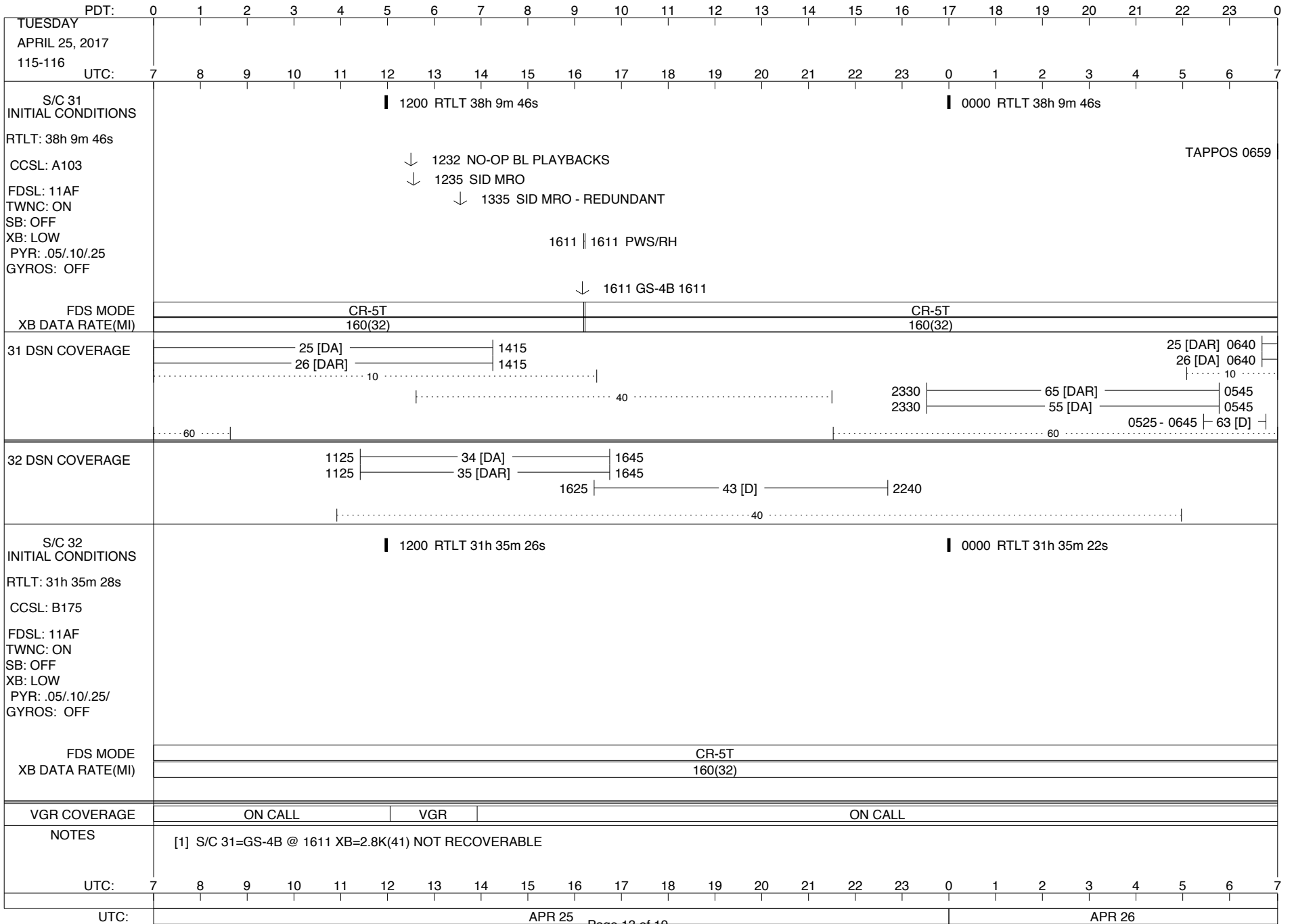
| PDT:  | 0   | 1 | 2 | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12                                  | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0 |
|---|---|---|---|----|----|----|----|----|----|----|----|----|-------------------------------------|----|----|----|----|----|----|----|----|----|----|----|---|
| SATURDAY<br>APRIL 22, 2017<br>112-113   | 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<br>INITIAL CONDITIONS<br>RTLTL: 38h 9m 46s<br>CCSL: A103<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25<br>GYROS: OFF   | 1200 RTLT 38h 9m 46s  |   |   |    |    |    |    |    |    |    |    |    | 0000 RTLT 38h 9m 46s                |    |    |    |    |    |    |    |    |    |    |    |   |
| FDS MODE  | CR-5T   |   |   |    |    |    |    |    |    |    |    |    | CR-5T                               |    |    |    |    |    |    |    |    |    |    |    |   |
| XB DATA RATE(MI)  | 160(32)   |   |   |    |    |    |    |    |    |    |    |    | 160(32)                             |    |    |    |    |    |    |    |    |    |    |    |   |
| 31 DSN COVERAGE   | 24 [DAR] 0700 - 1205<br>26 [DA] 0700 - 1205<br>1205 14 [D] 1635<br>1635 35 [DAR] 1940<br>1635 40 36 [DA] 1940<br>60 2145 - 0700 63 [D] 60 |   |   |    |    |    |    |    |    |    |    |    | 24 [DAR] 0655<br>26 [DA] 0655<br>10 |    |    |    |    |    |    |    |    |    |    |    |   |
| 32 DSN COVERAGE   | 1145 34 [DA] 1505<br>1145 35 [DAR] 1505<br>1505 43 [D] 0310<br>40   |   |   |    |    |    |    |    |    |    |    |    |                                     |    |    |    |    |    |    |    |    |    |    |    |   |
| S/C 32<br>INITIAL CONDITIONS<br>RTLTL: 31h 35m 42s<br>CCSL: B175<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25/<br>GYROS: OFF | 1200 RTLT 31h 35m 40s   |   |   |    |    |    |    |    |    |    |    |    | 0000 RTLT 31h 35m 38s               |    |    |    |    |    |    |    |    |    |    |    |   |
| FDS MODE  | CR-5T   |   |   |    |    |    |    |    |    |    |    |    | CR-5T                               |    |    |    |    |    |    |    |    |    |    |    |   |
| XB DATA RATE(MI)  | 160(32)   |   |   |    |    |    |    |    |    |    |    |    | 160(32)                             |    |    |    |    |    |    |    |    |    |    |    |   |
| VGR COVERAGE  | ON CALL   |   |   |    |    |    |    |    |    |    |    |    | ON CALL                             |    |    |    |    |    |    |    |    |    |    |    |   |
| NOTES   | [1] S/C 31=GS-4B @ 0148 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:  | APR 22  |   |   |    |    |    |    |    |    |    |    |    | APR 23                              |    |    |    |    |    |    |    |    |    |    |    |   |

ISSUE DATE: 04/19/17 08:19

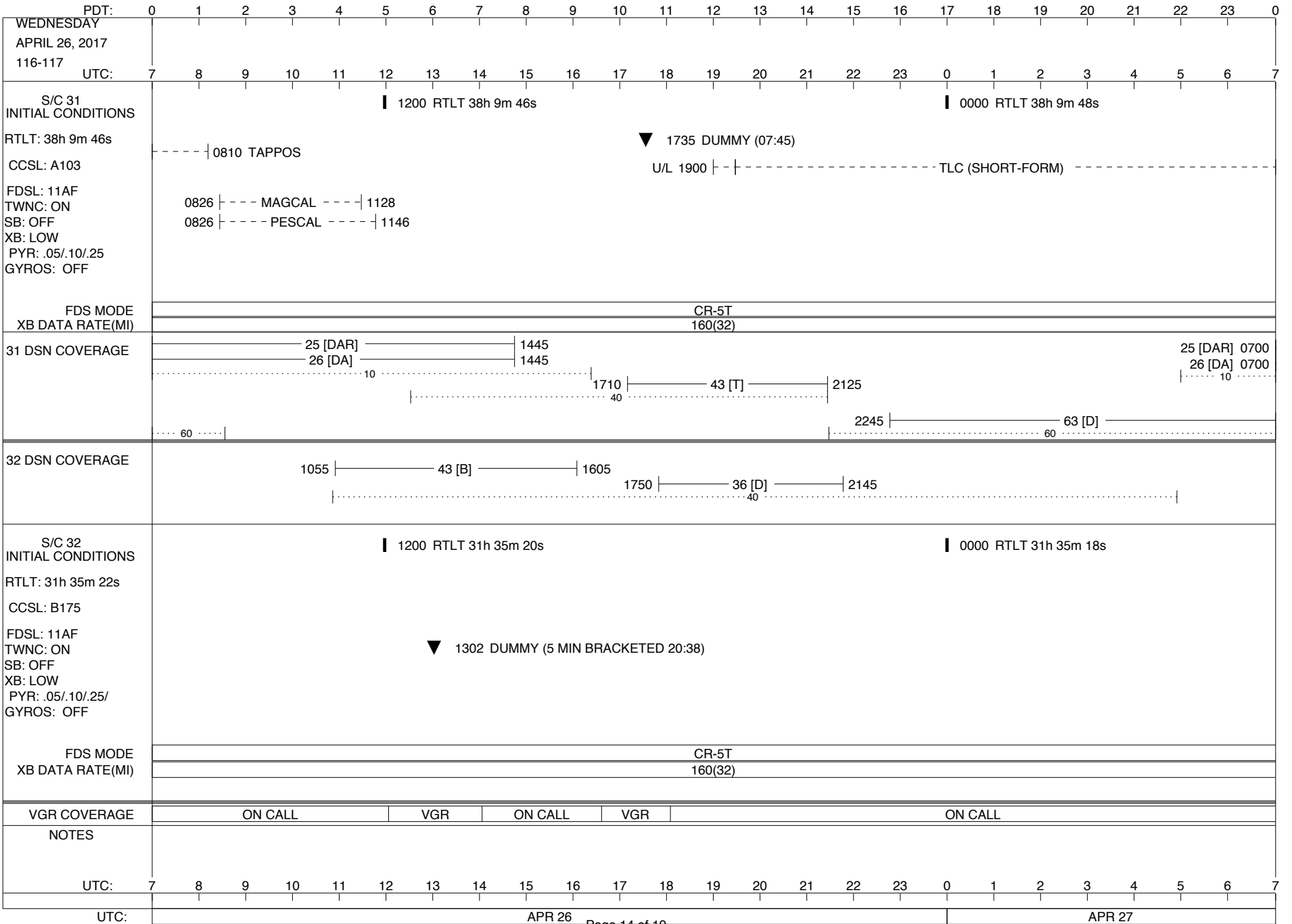


ISSUE DATE: 04/19/17 08:19

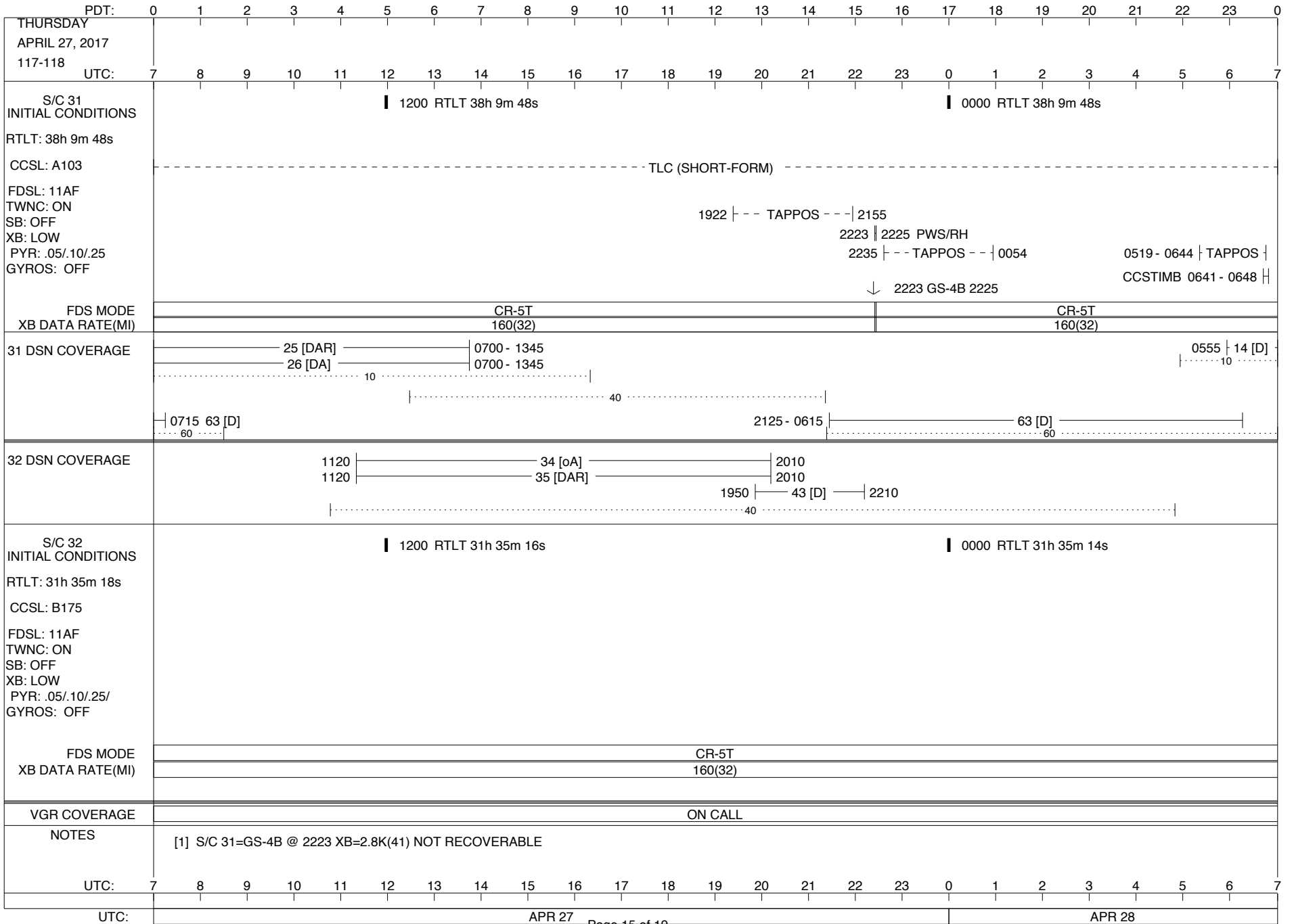
| PDT:  | 0   | 1 | 2 | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12  | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0 |
|---|---|---|---|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|---|
| MONDAY<br>APRIL 24, 2017<br>114-115   |   |   |   |    |    |    |    |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |
| 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<br>INITIAL CONDITIONS<br>RTLTL: 38h 9m 46s<br>CCSL: A103<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25<br>GYROS: OFF   | 1200 RTLT 38h 9m 46s  |   |   |    |    |    |    |    |    |    |    |    | 0000 RTLT 38h 9m 46s  |    |    |    |    |    |    |    |    |    |    |    |   |
|   | ↓ 0720 BAY 1 HTR OFF<br>↓ 0724 X/B HI POWER<br>↓ 0736 YAW=.05             |   |   |    |    |    |    |    |    |    |    |    | ↓ 1423<br>↓ 1432 YAW=.10<br>↓ 1432 X/B LOW POWER<br>↓ 1436 BAY 1 HTR ON |    |    |    |    |    |    |    |    |    |    |    |   |
|   | 0747  ----- PLAYBACK -----  1423  |   |   |    |    |    |    |    |    |    |    |    | 0023   -   0049 TAPPOS  |    |    |    |    |    |    |    |    |    |    |    |   |
|   | ↓ 0747  |   |   |    |    |    |    |    |    |    |    |    | ↓ 1423  |    |    |    |    |    |    |    |    |    |    |    |   |
| FDS MODE  | PB-14   |   |   |    |    |    |    |    |    |    |    |    | CR-5T   |    |    |    |    |    |    |    |    |    |    |    |   |
| XB DATA RATE(MI)  | 1.4K(39)  |   |   |    |    |    |    |    |    |    |    |    | 160(32)   |    |    |    |    |    |    |    |    |    |    |    |   |
| 31 DSN COVERAGE   | 14 [DA] -----  1445   |   |   |    |    |    |    |    |    |    |    |    | 25 [DA] 0645  |    |    |    |    |    |    |    |    |    |    |    |   |
|   | 25 [DA] -----  1445   |   |   |    |    |    |    |    |    |    |    |    | 26 [DAR] 0645   |    |    |    |    |    |    |    |    |    |    |    |   |
|   | 26 [DAR] -----  1445  |   |   |    |    |    |    |    |    |    |    |    | ----- 10 -----  |    |    |    |    |    |    |    |    |    |    |    |   |
|   | ----- 60 -----  |   |   |    |    |    |    |    |    |    |    |    | ----- 40 -----  |    |    |    |    |    |    |    |    |    |    |    |   |
|   | ----- 60 -----  |   |   |    |    |    |    |    |    |    |    |    | 2345 - 0645  ----- 63 [D] -----   |    |    |    |    |    |    |    |    |    |    |    |   |
| 32 DSN COVERAGE   | 1130  ----- 34 [DAR] -----  1800  |   |   |    |    |    |    |    |    |    |    |    | 2130  |    |    |    |    |    |    |    |    |    |    |    |   |
|   | 1130  ----- 36 [DA] -----  1800   |   |   |    |    |    |    |    |    |    |    |    | 2130  ----- 43 [D] -----  0115  |    |    |    |    |    |    |    |    |    |    |    |   |
|   | ----- 40 -----  |   |   |    |    |    |    |    |    |    |    |    | ----- 60 -----  |    |    |    |    |    |    |    |    |    |    |    |   |
| S/C 32<br>INITIAL CONDITIONS<br>RTLTL: 31h 35m 32s<br>CCSL: B175<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25/<br>GYROS: OFF | 1200 RTLT 31h 35m 30s   |   |   |    |    |    |    |    |    |    |    |    | 0000 RTLT 31h 35m 28s   |    |    |    |    |    |    |    |    |    |    |    |   |
| FDS MODE  |   |   |   |    |    |    |    |    |    |    |    |    | CR-5T   |    |    |    |    |    |    |    |    |    |    |    |   |
| XB DATA RATE(MI)  |   |   |   |    |    |    |    |    |    |    |    |    | 160(32)   |    |    |    |    |    |    |    |    |    |    |    |   |
| VGR COVERAGE  | VGR   |   |   |    |    |    |    |    |    |    |    |    | ON CALL   |    |    |    |    |    |    |    |    |    |    |    |   |
| NOTES   | [1] S/C 31=PB-14 @ 0747 XB=1.4K(39)<br>[2] S/C 31=CR-5T @ 1423 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:  | APR 24  |   |   |    |    |    |    |    |    |    |    |    | APR 25  |    |    |    |    |    |    |    |    |    |    |    |   |



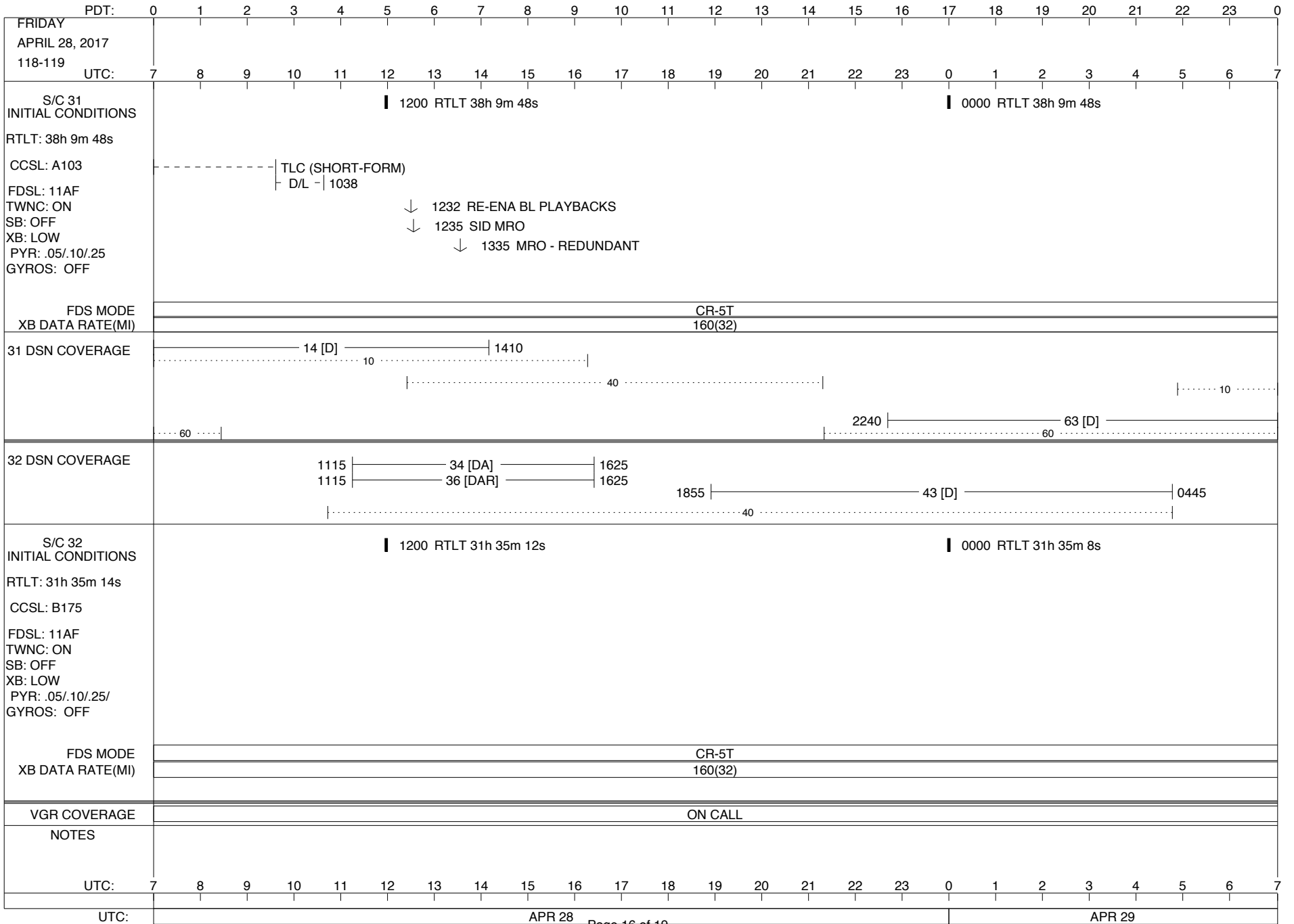
ISSUE DATE: 04/19/17 08:19



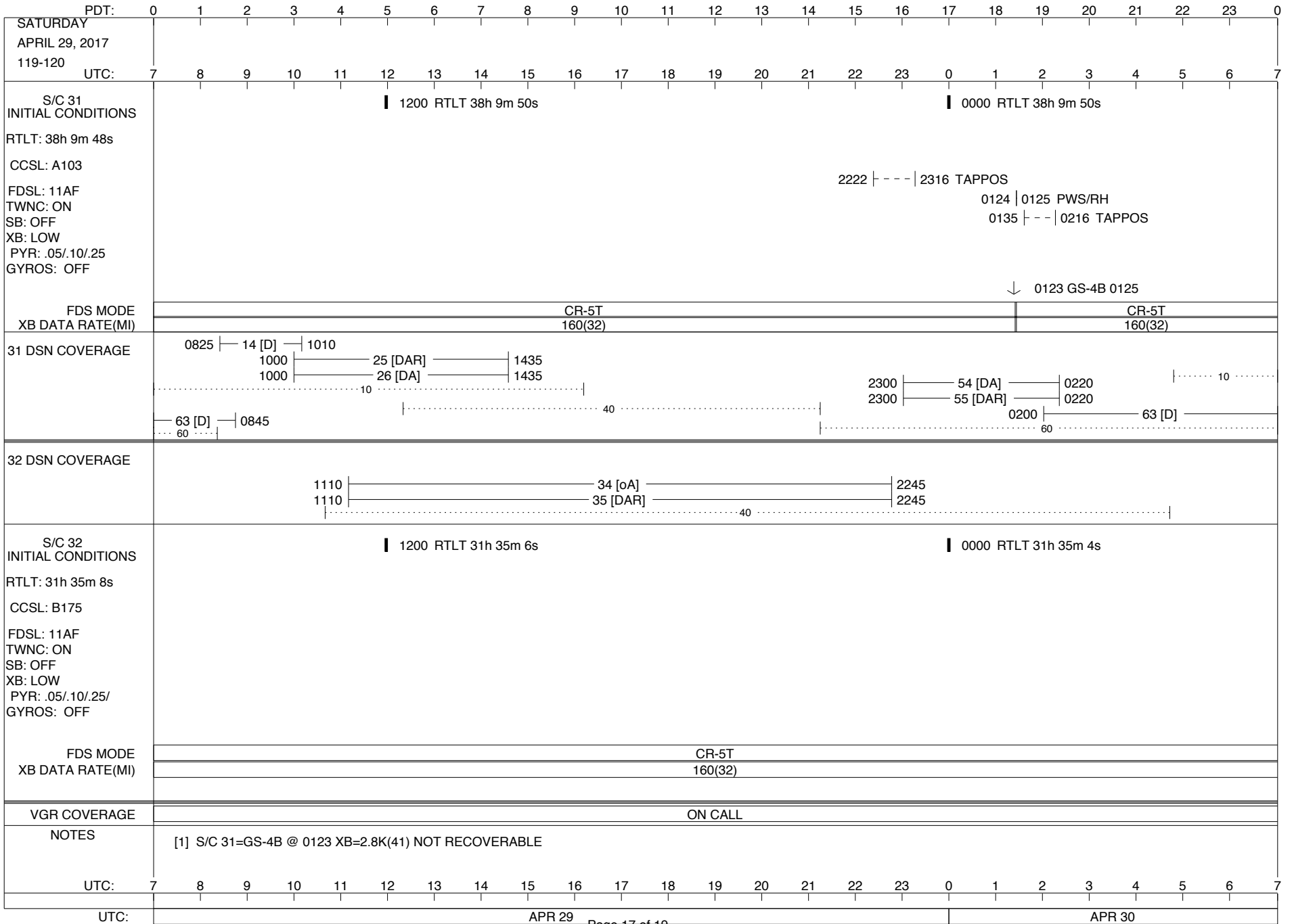
ISSUE DATE: 04/19/17 08:19



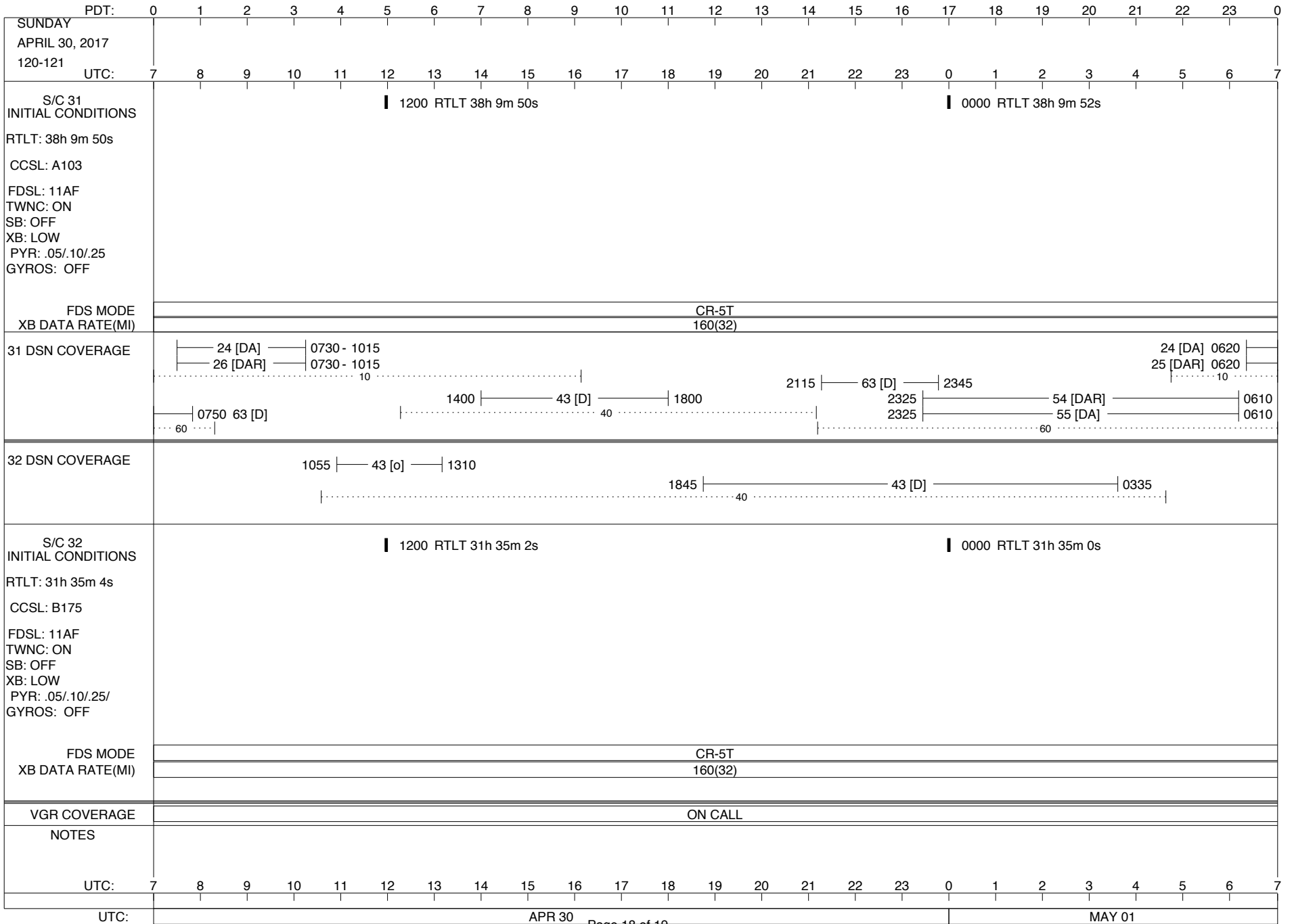




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| PDT:  | 0   | 1 | 2 | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13  | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0 |  |  |
|---|---|---|---|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|---|--|--|
| MONDAY<br>MAY 1, 2017<br>121-122  |   |   |   |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |   |  |  |
| 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<br>INITIAL CONDITIONS<br>RTLT: 38h 9m 52s<br>CCSL: A103<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25<br>GYROS: OFF  | <div style="text-align: center;"> <p>1200 RTLT 38h 9m 52s</p> </div>  |   |   |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |   |  |  |
| FDS MODE<br>XB DATA RATE(MI)  |   |   |   |    |    |    |    |    |    |    |    |    |    | <div style="text-align: center;"> <p>CR-5T<br/>160(32)</p> </div> |    |    |    |    |    |    |    |    |    |    |   |  |  |
| 31 DSN COVERAGE   | <p>Timeline for 31 DSN COVERAGE:<br/>           - 24 [DA] coverage from 1245 to 1245.<br/>           - 25 [DAR] coverage from 1245 to 1245.<br/>           - 10 [DAR] coverage from 1245 to 1245.<br/>           - 40 [DAR] coverage from 1245 to 1245.<br/>           - 60 [DAR] coverage from 1245 to 1245.</p> |   |   |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |   |  |  |
| 32 DSN COVERAGE   | <p>Timeline for 32 DSN COVERAGE:<br/>           - 34 [DA] coverage from 1100 to 2145.<br/>           - 35 [DAR] coverage from 1100 to 2145.</p>   |   |   |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |   |  |  |
| S/C 32<br>INITIAL CONDITIONS<br>RTLT: 31h 35m 0s<br>CCSL: B175<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25/<br>GYROS: OFF | <div style="text-align: center;"> <p>1200 RTLT 31h 34m 58s</p> </div>   |   |   |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |   |  |  |
| FDS MODE<br>XB DATA RATE(MI)  |   |   |   |    |    |    |    |    |    |    |    |    |    | <div style="text-align: center;"> <p>CR-5T<br/>160(32)</p> </div> |    |    |    |    |    |    |    |    |    |    |   |  |  |
| VGR COVERAGE  | <div style="text-align: center;"> <p>ON CALL</p> </div>   |   |   |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |   |  |  |
| 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:  | MAY 01  |   |   |    |    |    |    |    |    |    |    |    |    | MAY 02  |    |    |    |    |    |    |    |    |    |    |   |  |  |