

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: August 13, 2013

For the Period: 08/15/13 to 09/02/13 (13-227 – 13-245)

**DSN OPSCHIEF (1) 230-102**

**SCIENCE**

**FLIGHT TEAM (14) 600-100**

**DSOT (1) 230-102**

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 MAG \*u2mha@lepvox.gsfc.nasa.gov  
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 \*Leonard.F.Burlaga@nasa.gov  
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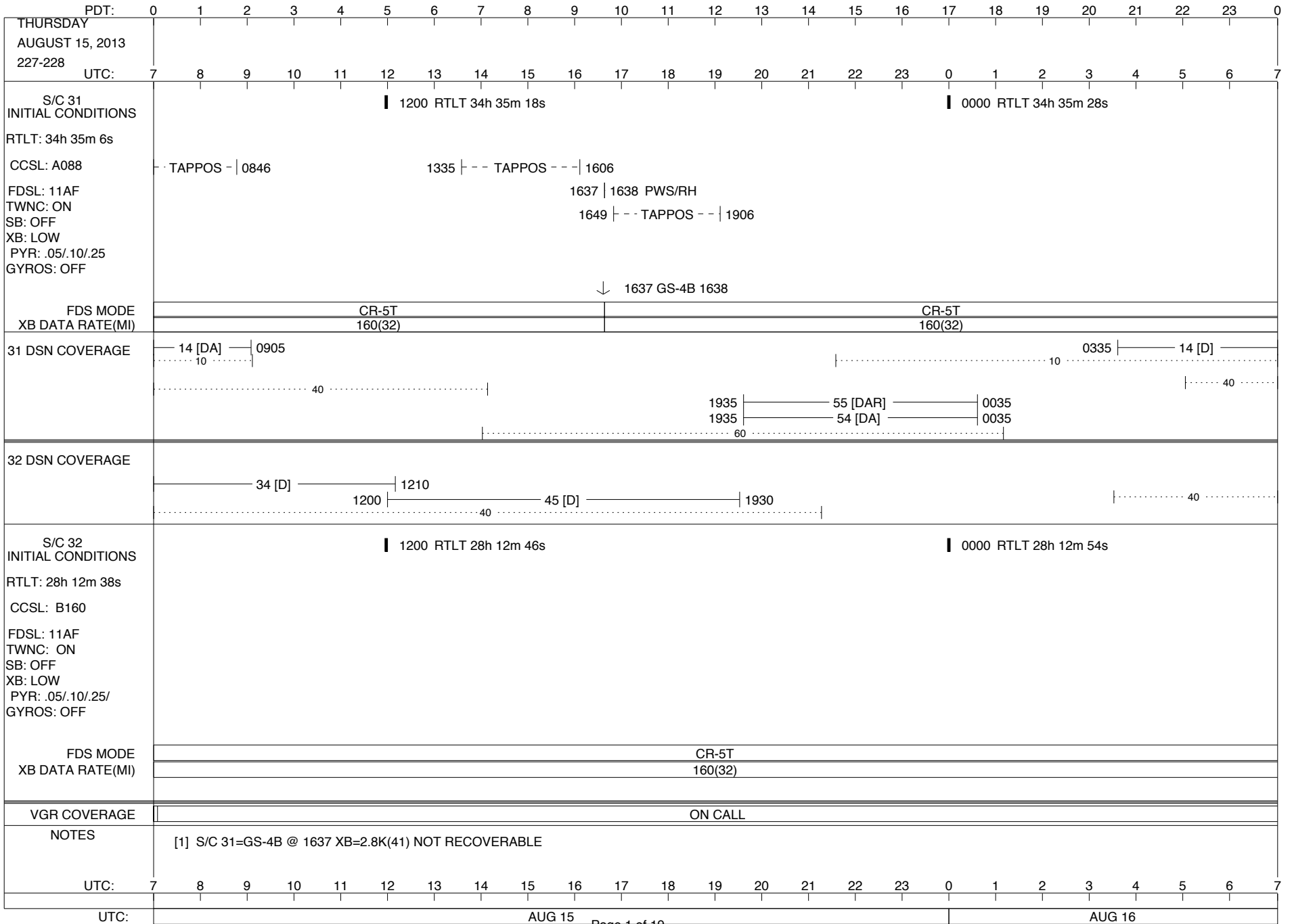
**OTHER**

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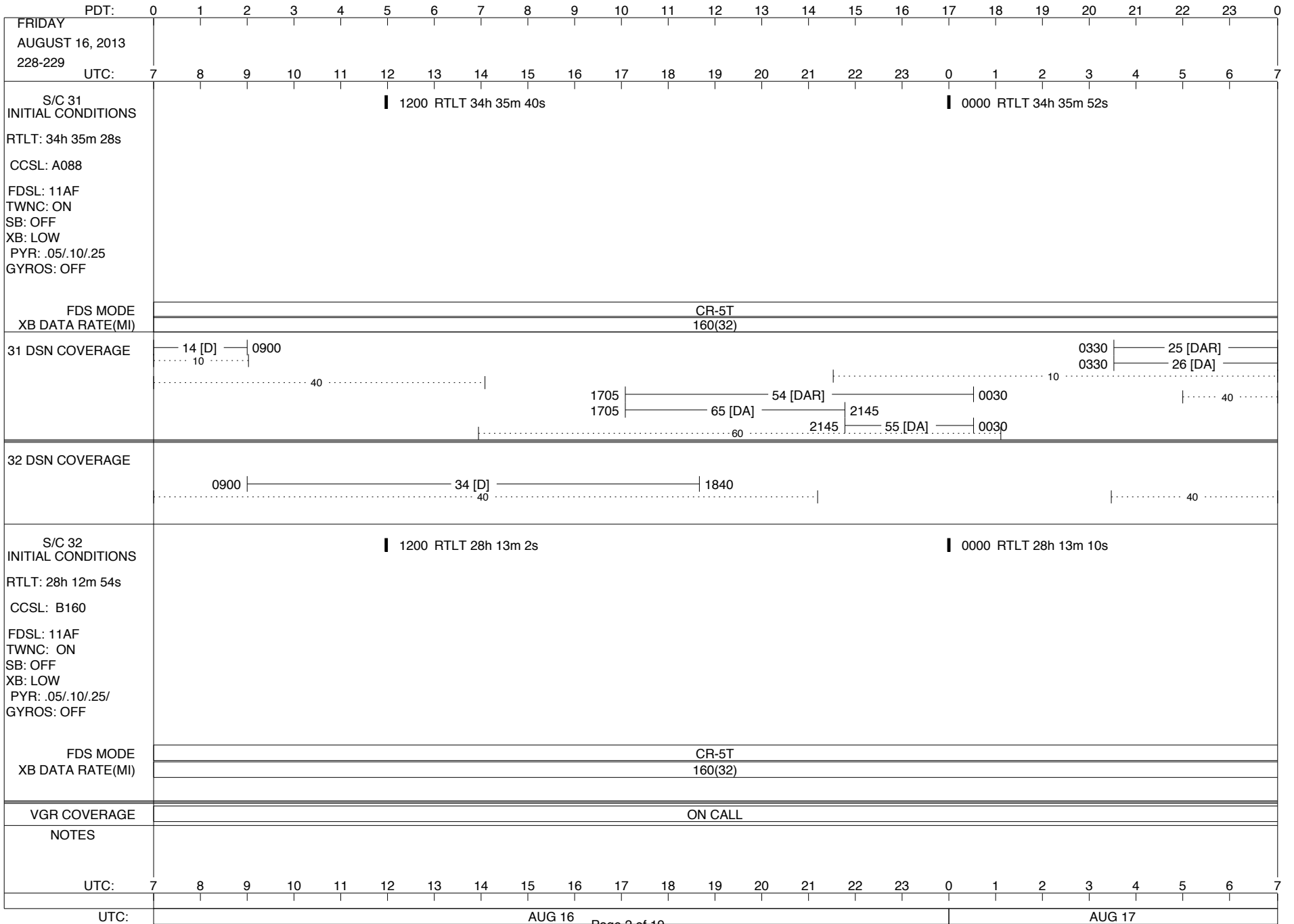
**LEGEND:** ∇ = R/T Command (Last chance or Contingency)  
 ▼ = R/T Command (Scheduled)  
 \* = Result of R/T Command  
 n = (where n = 1,2,3 ..) Special Note, see bottom of page  
 A = Arrayed station  
 B = 7-Point BLF  
 D = Downlink only pass  
 H = High Power Transmitter  
 R = Array Reference Antenna  
 T = TLC Uplink  
 U = Uplink only pass  
 [o] = Ramp-through

\*Electronic Copy Only  
 (16 – Dist/N: Paper Copies)  
 09/08/10

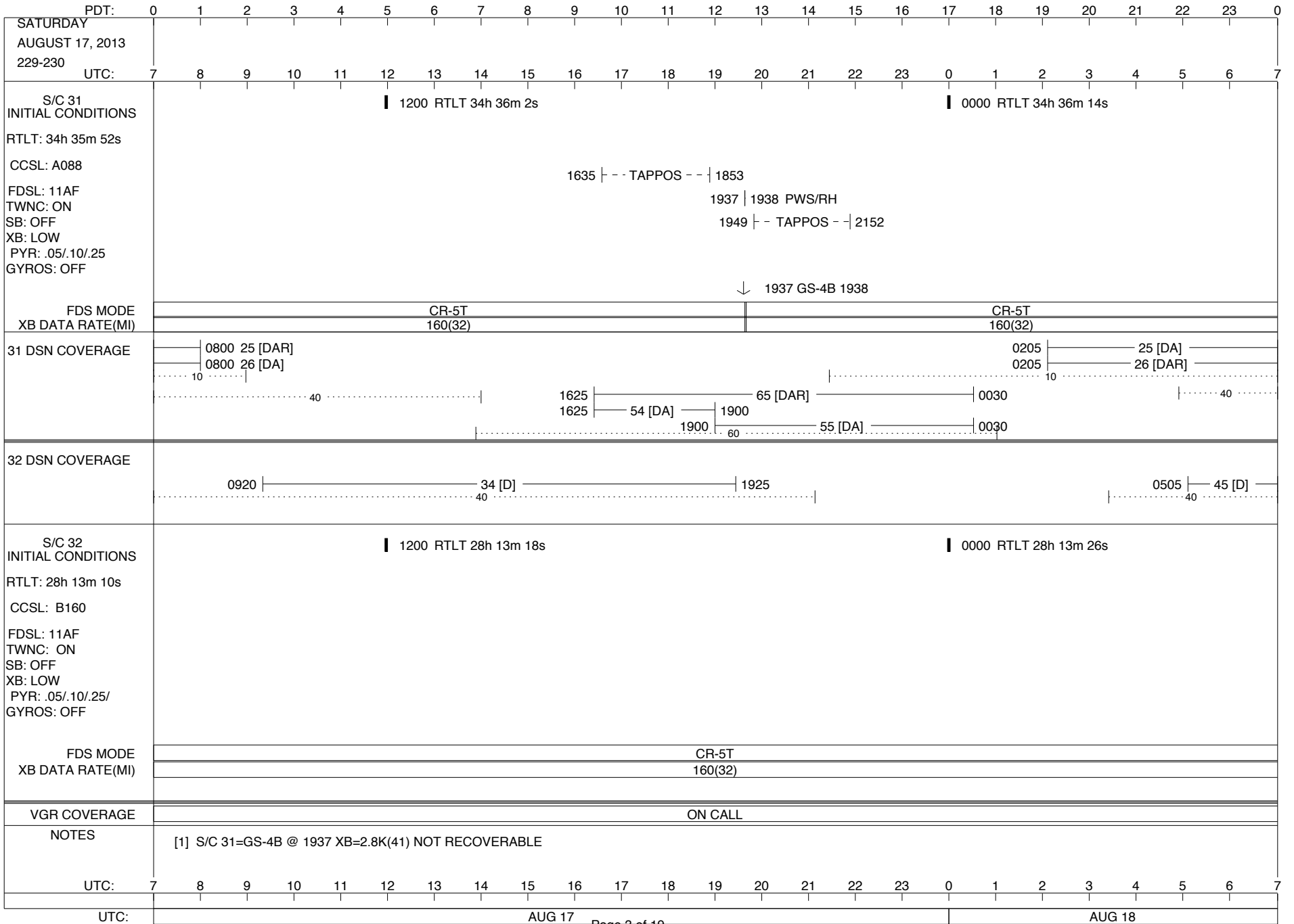
ISSUE DATE: 08/14/13 21:07



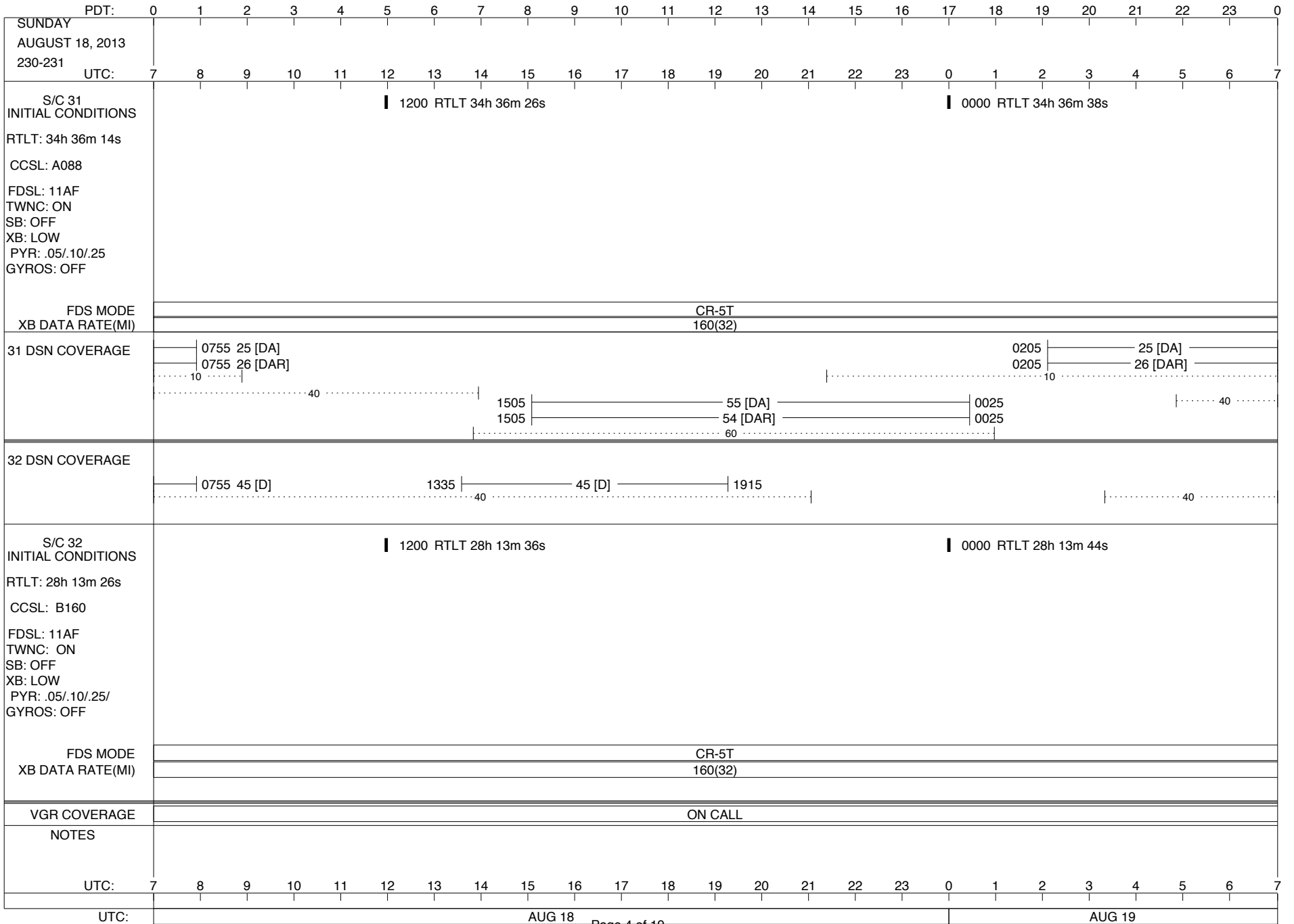
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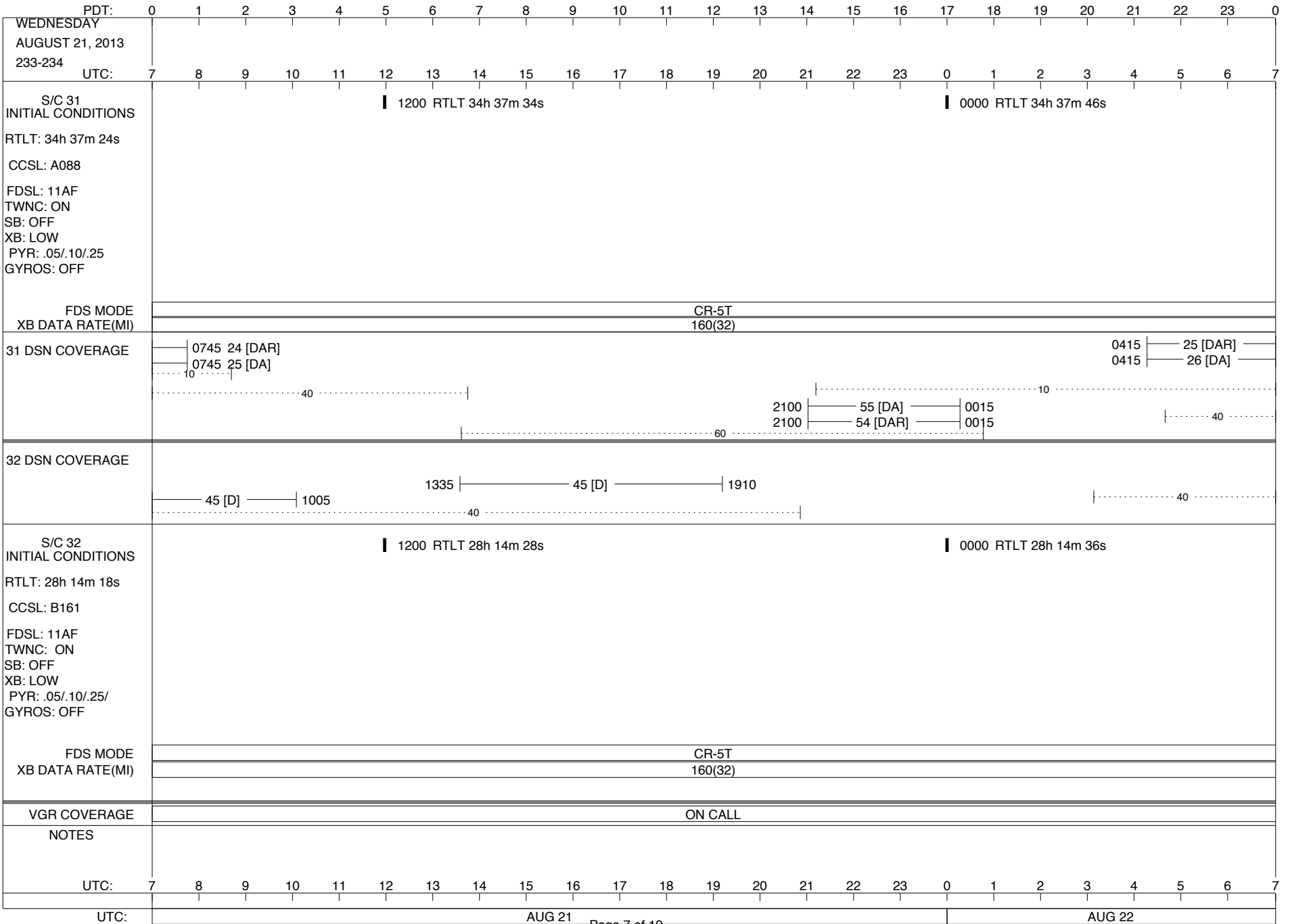
ISSUE DATE: 08/14/13 21:07

| 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 |  |
|--|--|---|---|----|----|----|----|----|----|----|----|----|--|----|----|----|----|----|----|----|----|----|----|----|---|--|
| MONDAY<br>AUGUST 19, 2013<br>231-232   |  |   |   |    |    |    |    |    |    |    |    |    |  |    |    |    |    |    |    |    |    |    |    |    |   |  |
| 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: 34h 36m 38s<br>CCSL: A088<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25<br>GYROS: OFF  | 1200 RTLT 34h 36m 48s                          |   |   |    |    |    |    |    |    |    |    |    | 0000 RTLT 34h 37m 0s   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| FDS MODE   | CR-5T  |   |   |    |    |    |    |    |    |    |    |    |  |    |    |    |    |    |    |    |    |    |    |    |   |  |
| XB DATA RATE(MI)   | 160(32)  |   |   |    |    |    |    |    |    |    |    |    |  |    |    |    |    |    |    |    |    |    |    |    |   |  |
| 31 DSN COVERAGE  | 0755 25 [DA]<br>0755 26 [DAR]<br>.....10 ..... |   |   |    |    |    |    |    |    |    |    |    | 0300 - 0650   24 [DAR]<br>0300 - 0650   25 [DAR]<br>.....10 .....  |    |    |    |    |    |    |    |    |    |    |    |   |  |
|  | .....40.....                                   |   |   |    |    |    |    |    |    |    |    |    | 2200   55 [DA]   0010<br>2200   54 [DAR]   0010<br>.....60.....    |    |    |    |    |    |    |    |    |    |    |    |   |  |
| 32 DSN COVERAGE  | 0825   45 [D]   1230<br>.....40.....           |   |   |    |    |    |    |    |    |    |    |    | 1805   43 [B]   2100<br>.....40.....                               |    |    |    |    |    |    |    |    |    |    |    |   |  |
| S/C 32<br>INITIAL CONDITIONS<br>RTLT: 28h 13m 44s<br>CCSL: B160<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25/<br>GYROS: OFF |  |   |   |    |    |    |    |    |    |    |    |    | 0000 RTLT 28h 14m 2s   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| FDS MODE   | CR-5T  |   |   |    |    |    |    |    |    |    |    |    |  |    |    |    |    |    |    |    |    |    |    |    |   |  |
| XB DATA RATE(MI)   | 160(32)  |   |   |    |    |    |    |    |    |    |    |    |  |    |    |    |    |    |    |    |    |    |    |    |   |  |
| VGR COVERAGE   | ON CALL  |   |   |    |    |    |    |    |    |    |    |    | VGR ON CALL  |    |    |    |    |    |    |    |    |    |    |    |   |  |
| NOTES  |  |   |   |    |    |    |    |    |    |    |    |    | ▼ 1852 DUMMY (5 MIN BRACKETED 23:07)<br>↓ 2346 BEGIN SEQUENCE B161 |    |    |    |    |    |    |    |    |    |    |    |   |  |
| 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 19   |   |   |    |    |    |    |    |    |    |    |    | AUG 20   |    |    |    |    |    |    |    |    |    |    |    |   |  |

ISSUE DATE: 08/14/13 21:07

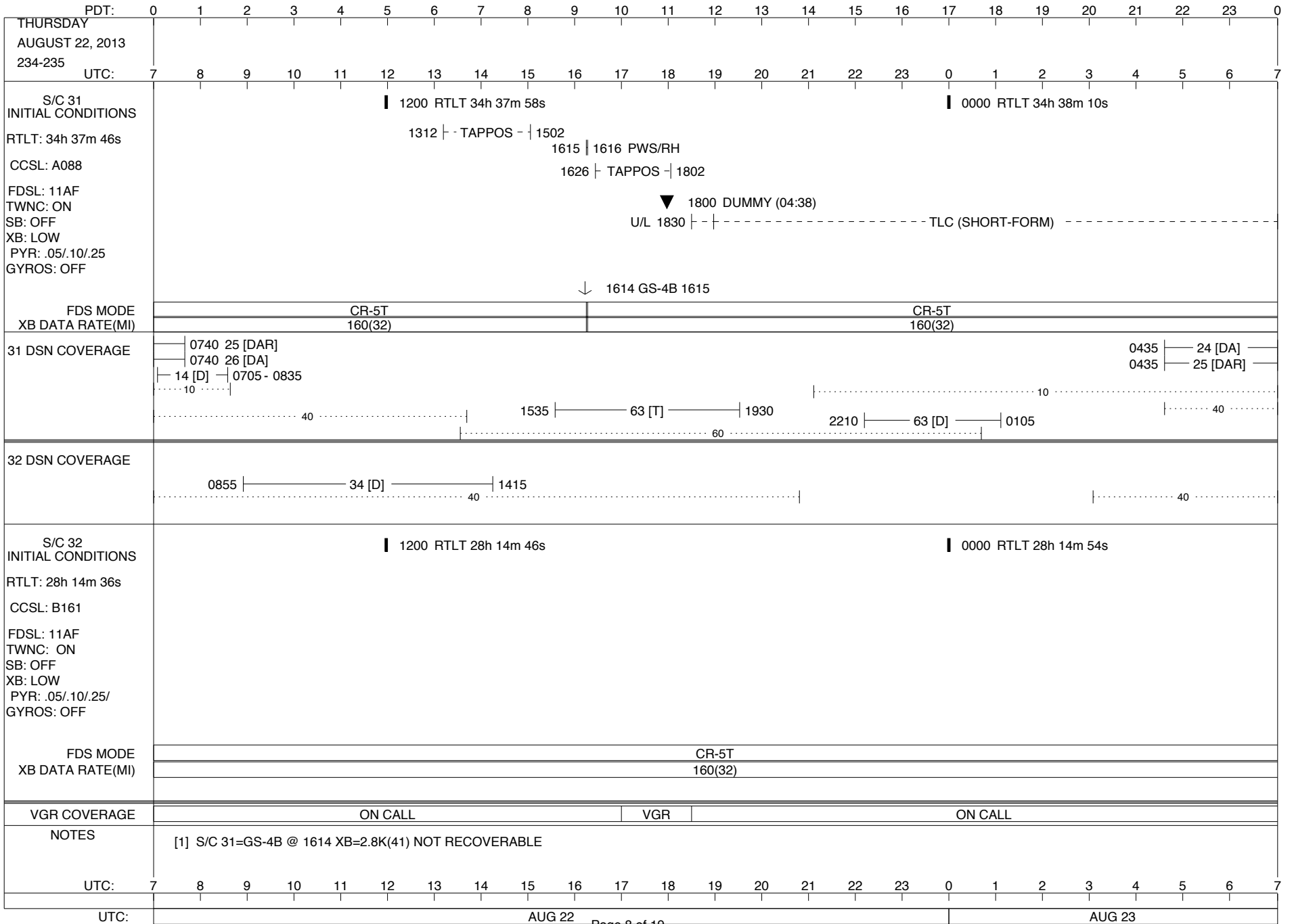
| PDT:  | 0  | 1 | 2 | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12   | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0 |
|---|--|---|---|----|----|----|----|----|----|----|----|----|--|----|----|----|----|----|----|----|----|----|----|----|---|
| TUESDAY<br>AUGUST 20, 2013<br>232-233   | 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: 34h 37m 0s<br>CCSL: A088<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25<br>GYROS: OFF  | 1200 RTLT 34h 37m 12s  |   |   |    |    |    |    |    |    |    |    |    | 0000 RTLT 34h 37m 24s  |    |    |    |    |    |    |    |    |    |    |    |   |
|   | 1000   1001 PWS/RH   |   |   |    |    |    |    |    |    |    |    |    |  |    |    |    |    |    |    |    |    |    |    |    |   |
|   | ↓ 1000 GS-4B 1001  |   |   |    |    |    |    |    |    |    |    |    |  |    |    |    |    |    |    |    |    |    |    |    |   |
| FDS MODE  | CR-5T  |   |   |    |    |    |    |    |    |    |    |    | CR-5T  |    |    |    |    |    |    |    |    |    |    |    |   |
| XB DATA RATE(MI)  | 160(32)  |   |   |    |    |    |    |    |    |    |    |    | 160(32)  |    |    |    |    |    |    |    |    |    |    |    |   |
| 31 DSN COVERAGE   | ..... 10 .....  <br>..... 40 .....  <br>1930  ----- 54 [DAR] -----  0015<br>1930  ----- 65 [DA] -----  2145<br>2145  ----- 55 [DA] -----  0015<br>..... 60 ..... |   |   |    |    |    |    |    |    |    |    |    | 0030  ----- 24 [DAR] ----- <br>0030  ----- 25 [DA] -----  10<br>..... 40 ..... |    |    |    |    |    |    |    |    |    |    |    |   |
| 32 DSN COVERAGE   | 1040  ----- 34 [o] -----  1915<br>..... 40 .....   |   |   |    |    |    |    |    |    |    |    |    | 0300  ----- 43 [D] -----  0510<br>0450  ----- 45 [D] ----- <br>..... 40 .....  |    |    |    |    |    |    |    |    |    |    |    |   |
| S/C 32<br>INITIAL CONDITIONS<br>RTLT: 28h 14m 2s<br>CCSL: B161<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25/<br>GYROS: OFF | 1200 RTLT 28h 14m 10s  |   |   |    |    |    |    |    |    |    |    |    | 0000 RTLT 28h 14m 18s  |    |    |    |    |    |    |    |    |    |    |    |   |
|   | 1122   PLSCAL -   1305   |   |   |    |    |    |    |    |    |    |    |    |  |    |    |    |    |    |    |    |    |    |    |    |   |
|   | 1122   --- MAGCAL ---   1425   |   |   |    |    |    |    |    |    |    |    |    |  |    |    |    |    |    |    |    |    |    |    |    |   |
|   | 1122   --- PESCAL ---   1442   |   |   |    |    |    |    |    |    |    |    |    |  |    |    |    |    |    |    |    |    |    |    |    |   |
| 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 @ 1000 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:  | AUG 20   |   |   |    |    |    |    |    |    |    |    |    | AUG 21   |    |    |    |    |    |    |    |    |    |    |    |   |

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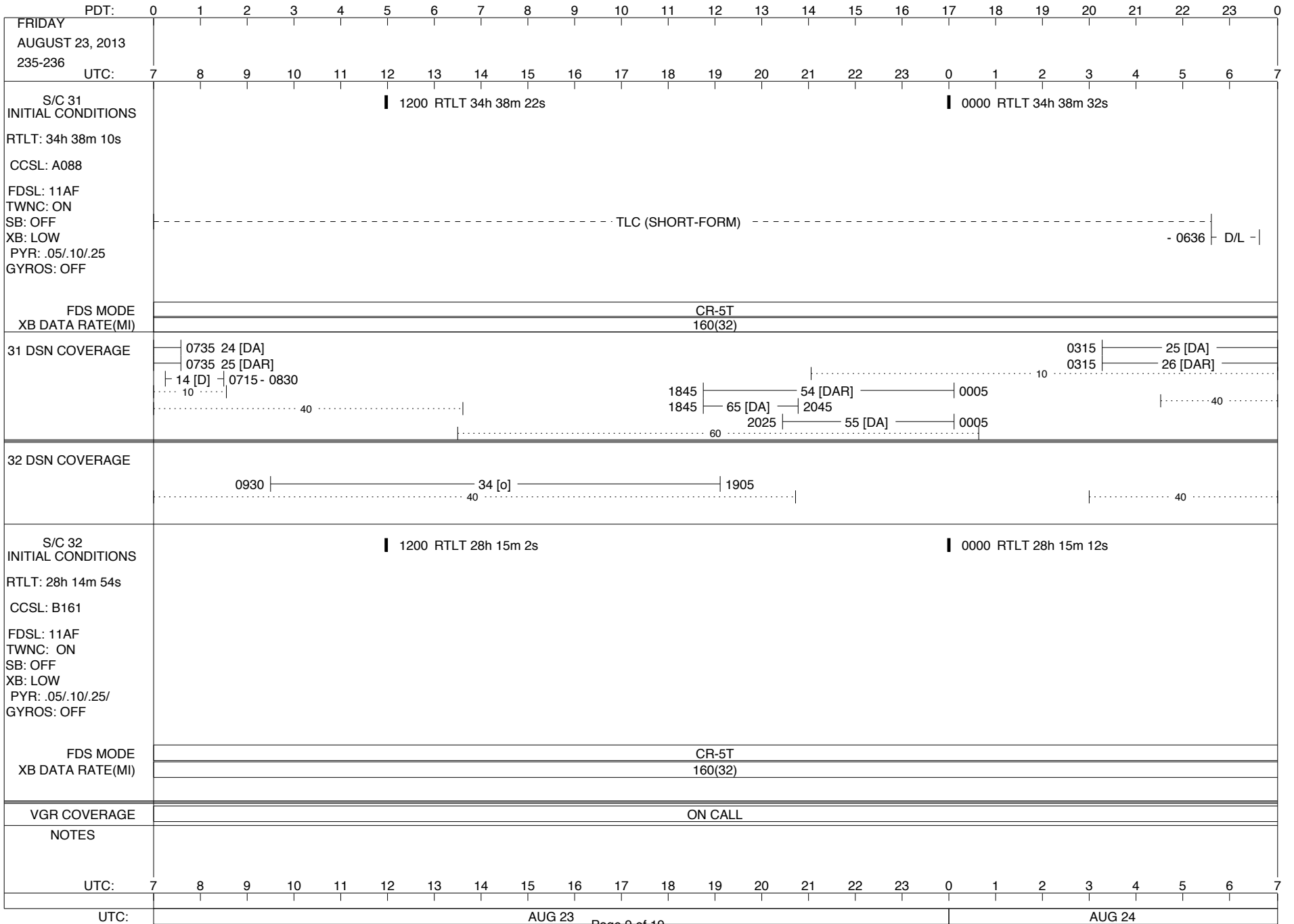




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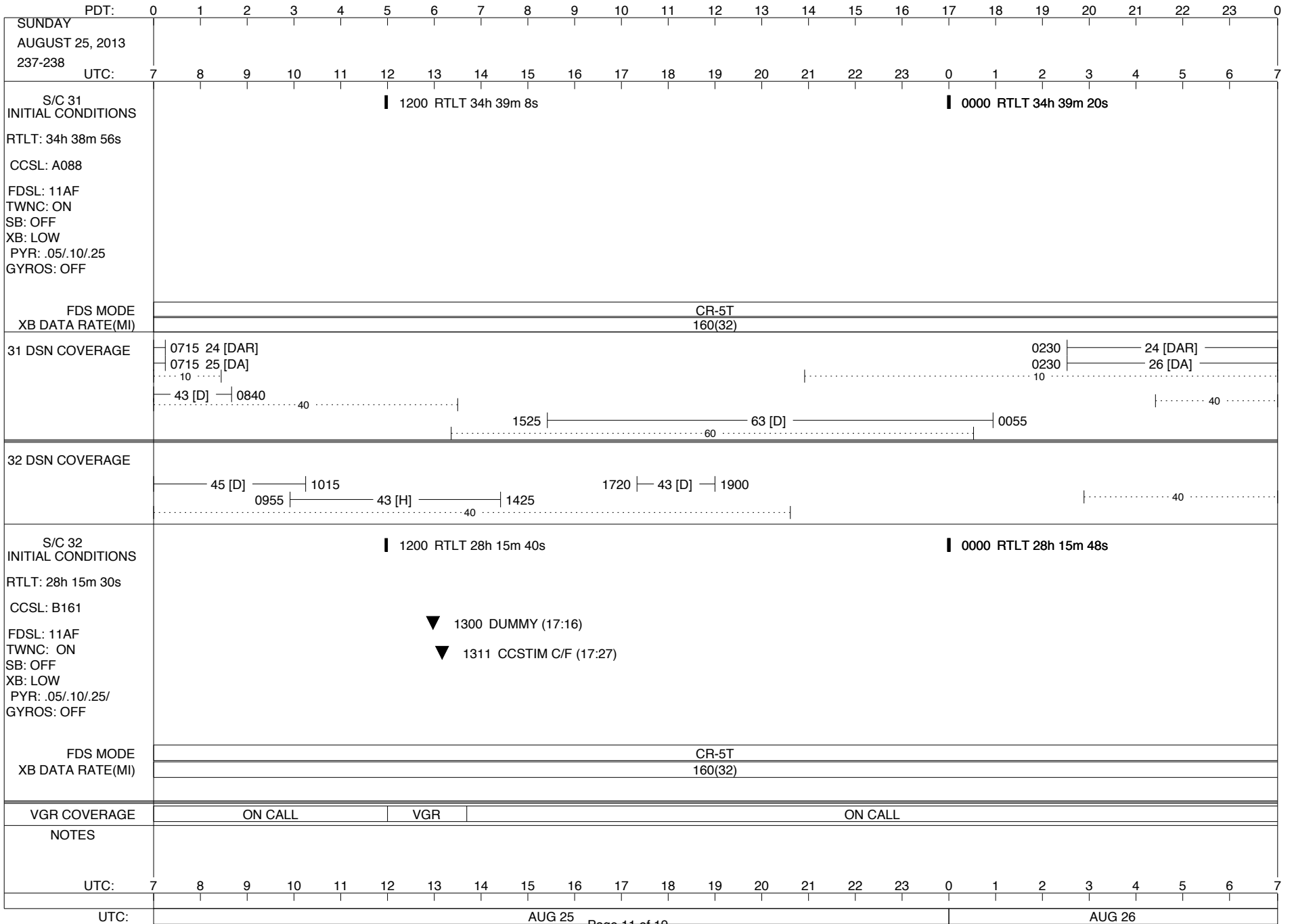


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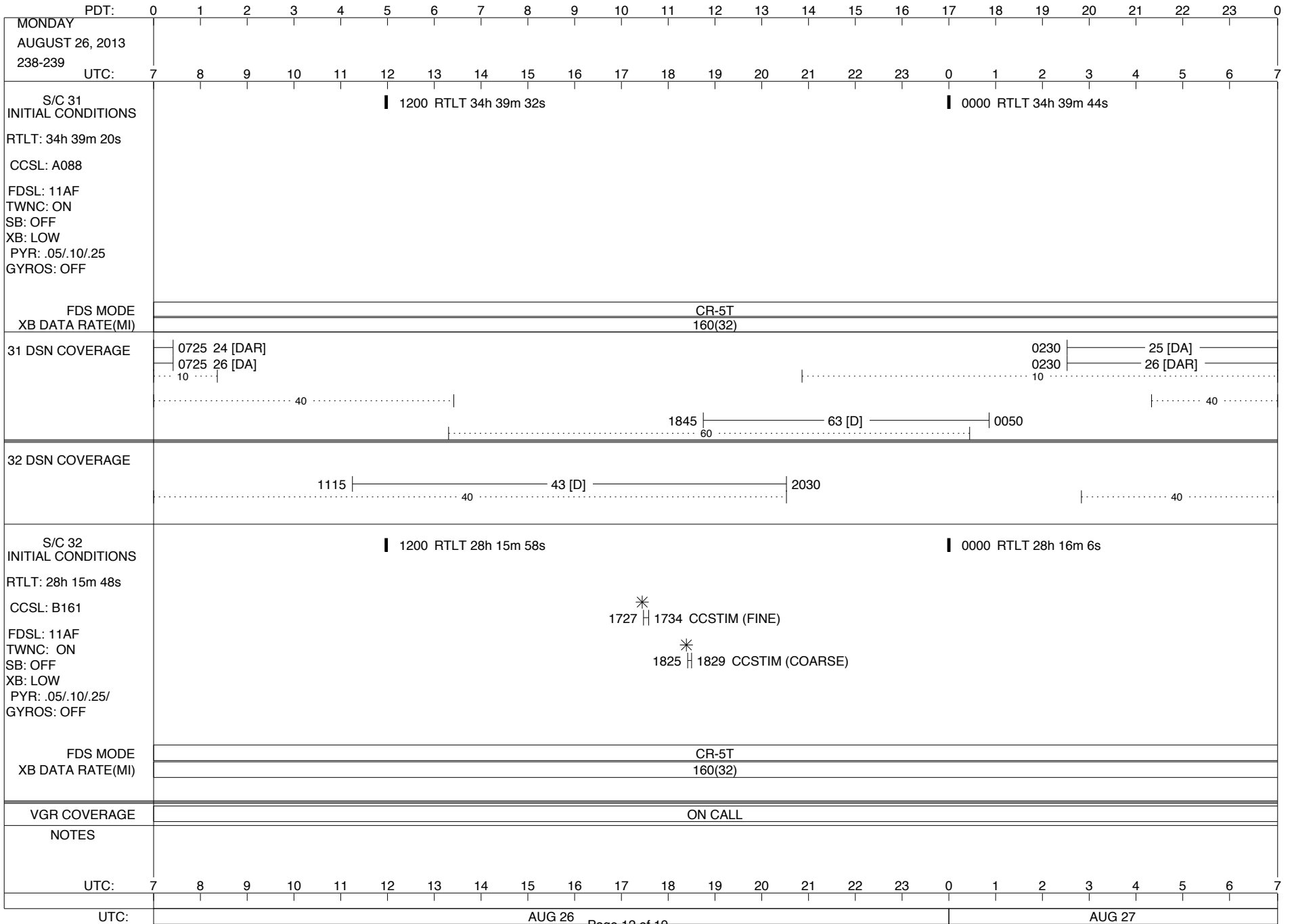




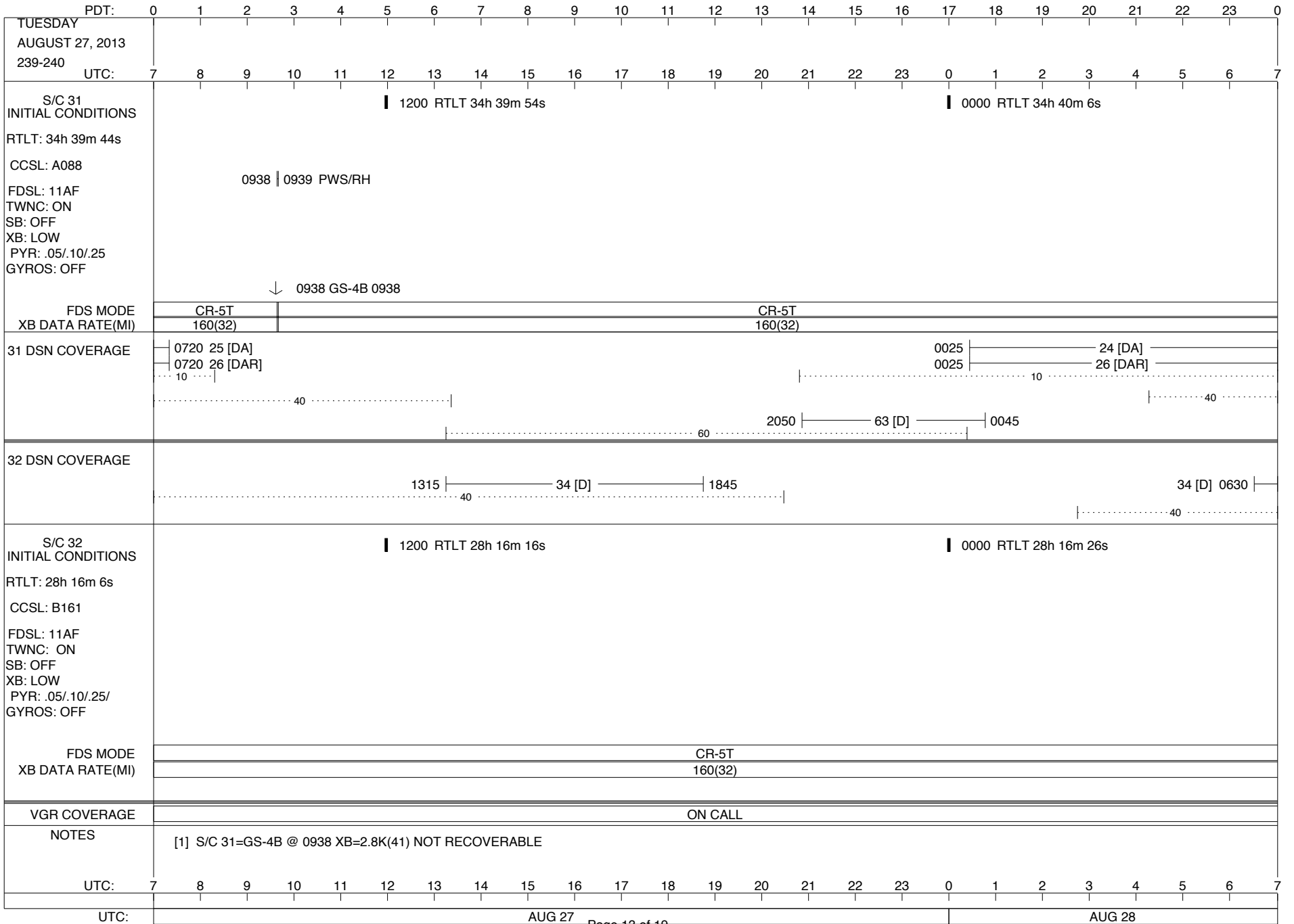
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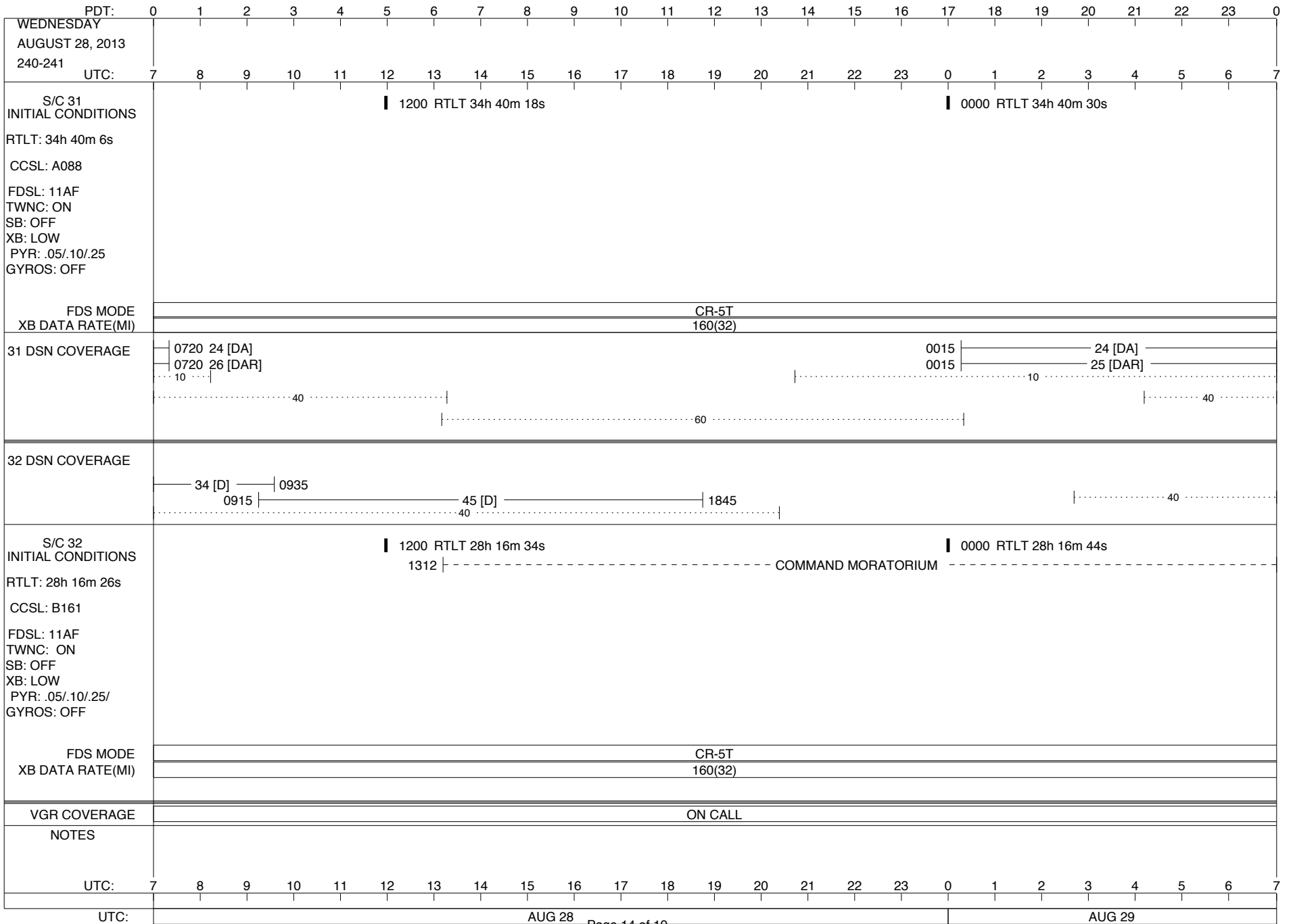
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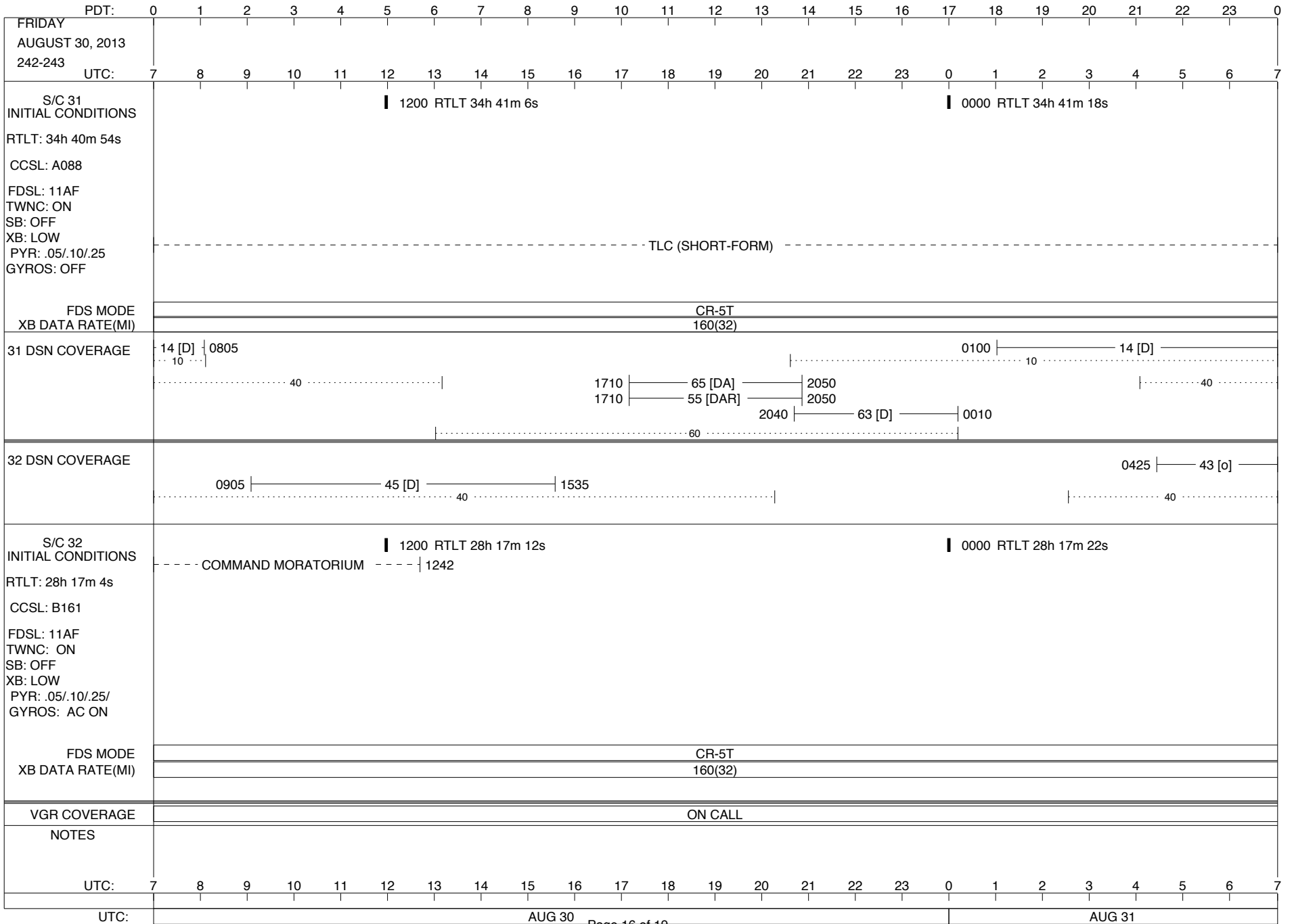


ISSUE DATE: 08/14/13 21:07

| 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 |  |  |  |
|---|--|---|---|----|----|----|----|----|----|----|----|----|----|----|------------------|----|----|----|----|----|----|----|----|----|---|--|--|--|
| 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<br>AUGUST 29, 2013<br>241-242  |  |   |   |    |    |    |    |    |    |    |    |    |    |    |                  |    |    |    |    |    |    |    |    |    |   |  |  |  |
| S/C 31<br>INITIAL CONDITIONS<br>RTLTL: 34h 40m 30s<br>CCSL: A088<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25<br>GYROS: OFF  | <p>1200 RTLTL 34h 40m 42s</p> <p>1250  -----  1358 TAPPOS</p> <p>1551   1552 PWS/RH</p> <p>1603  ----  1657 TAPPOS</p> <p>U/L 2000   -  -----  TLC (SHORT-FORM) -----</p> <p>↓ 1551 GS-4B 1552</p> |   |   |    |    |    |    |    |    |    |    |    |    |    |                  |    |    |    |    |    |    |    |    |    |   |  |  |  |
| FDS MODE<br>XB DATA RATE(MI)  | CR-5T<br>160(32)   |   |   |    |    |    |    |    |    |    |    |    |    |    | CR-5T<br>160(32) |    |    |    |    |    |    |    |    |    |   |  |  |  |
| 31 DSN COVERAGE   | <p>0715 24 [DA]  -----  0330  -----  14 [D]  ----- </p> <p>0715 25 [DAR]  -----  10  -----  10  -----  40  ----- </p> <p>1935  -----  63 [T]  -----  0040</p>                                      |   |   |    |    |    |    |    |    |    |    |    |    |    |                  |    |    |    |    |    |    |    |    |    |   |  |  |  |
| 32 DSN COVERAGE   | <p>1105  -----  43 [D]  -----  1815  -----  40  ----- </p>   |   |   |    |    |    |    |    |    |    |    |    |    |    |                  |    |    |    |    |    |    |    |    |    |   |  |  |  |
| S/C 32<br>INITIAL CONDITIONS<br>RTLTL: 28h 16m 44s<br>CCSL: B161<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25/<br>GYROS: OFF | <p>1200 RTLTL 28h 16m 54s</p> <p>0000 RTLTL 28h 17m 4s</p> <p>----- COMMAND MORATORIUM -----</p> <p>↓ 1658 GYROS AC ON</p> <p>↓ 1659 GYRO INIT</p> <p>↓ 1709 GYRO FAULT TEST</p>                   |   |   |    |    |    |    |    |    |    |    |    |    |    |                  |    |    |    |    |    |    |    |    |    |   |  |  |  |
| FDS MODE<br>XB DATA RATE(MI)  | CR-5T<br>160(32)   |   |   |    |    |    |    |    |    |    |    |    |    |    |                  |    |    |    |    |    |    |    |    |    |   |  |  |  |
| VGR COVERAGE  | ON CALL  |   |   |    |    |    |    |    |    |    |    |    |    |    | VGR ON CALL      |    |    |    |    |    |    |    |    |    |   |  |  |  |
| NOTES   | [1] S/C 31=GS-4B @ 1551 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:  | AUG 29   |   |   |    |    |    |    |    |    |    |    |    |    |    | AUG 30           |    |    |    |    |    |    |    |    |    |   |  |  |  |



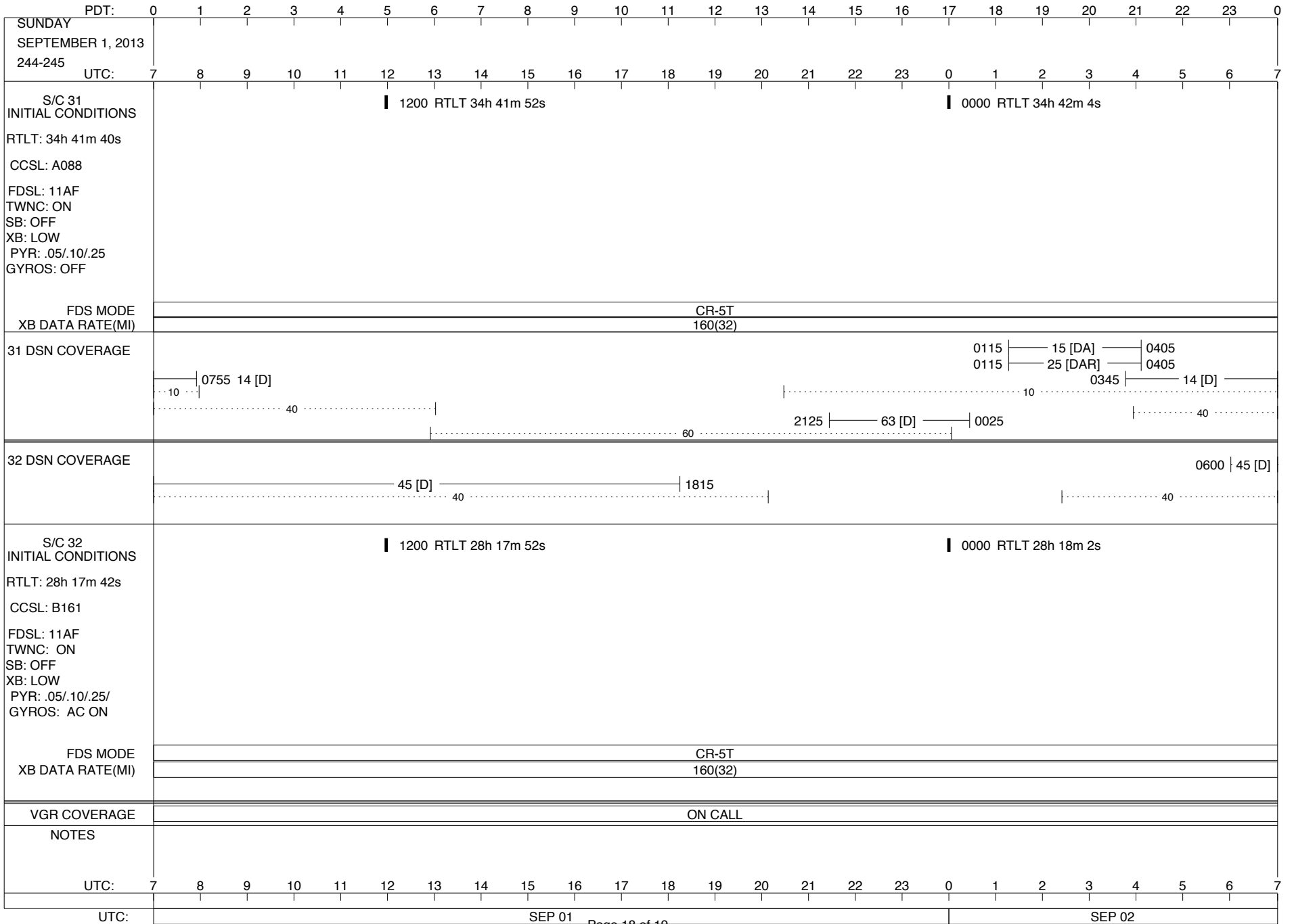
ISSUE DATE: 08/14/13 21:07



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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>AUGUST 31, 2013<br>243-244  | 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: 34h 41m 18s<br>CCSL: A088<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25<br>GYROS: OFF    | 1200 RTLTL 34h 41m 30s                               |   |   |    |    |    |    |    |    |    |    |    | 0000 RTLTL 34h 41m 40s   |    |    |    |    |    |    |    |    |    |    |    |   |
| FDS MODE<br>XB DATA RATE(MI)  | CR-5T<br>160(32)                                     |   |   |    |    |    |    |    |    |    |    |    | CR-5T<br>160(32)   |    |    |    |    |    |    |    |    |    |    |    |   |
| 31 DSN COVERAGE   | 14 [D] 0800<br>.....40.....                          |   |   |    |    |    |    |    |    |    |    |    | 0240 24 [DA] 0505<br>0240 26 [DAR] 0505<br>0445 14 [D]<br>.....10..... |    |    |    |    |    |    |    |    |    |    |    |   |
| 32 DSN COVERAGE   | 43 [o] 0820<br>0825 .....45 [D] 1810<br>.....40..... |   |   |    |    |    |    |    |    |    |    |    | 1925 63 [D] 0030<br>.....60.....                                       |    |    |    |    |    |    |    |    |    |    |    |   |
| S/C 32<br>INITIAL CONDITIONS<br>RTLTL: 28h 17m 22s<br>CCSL: B161<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25/<br>GYROS: AC ON | 1200 RTLTL 28h 17m 32s                               |   |   |    |    |    |    |    |    |    |    |    | 0000 RTLTL 28h 17m 42s   |    |    |    |    |    |    |    |    |    |    |    |   |
| FDS MODE<br>XB DATA RATE(MI)  | CR-5T<br>160(32)                                     |   |   |    |    |    |    |    |    |    |    |    |  |    |    |    |    |    |    |    |    |    |    |    |   |
| VGR COVERAGE  | ON CALL  |   |   |    |    |    |    |    |    |    |    |    |  |    |    |    |    |    |    |    |    |    |    |    |   |
| NOTES   | [1] S/C 31=GS-4B @ 1851 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:  | AUG 31   |   |   |    |    |    |    |    |    |    |    |    | SEP 01   |    |    |    |    |    |    |    |    |    |    |    |   |

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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>SEPTEMBER 2, 2013<br>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<br>INITIAL CONDITIONS<br>RTLTL: 34h 42m 4s<br>CCSL: A088<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25<br>GYROS: OFF    | <p style="text-align: center;">  1200 RTLTL 34h 42m 16s</p>   |   |   |    |    |    |    |    |    |    |    |    |    |                  |    |    |    |    |    |    |    |    |    |    |   |  |  |
| FDS MODE<br>XB DATA RATE(MI)   |   |   |   |    |    |    |    |    |    |    |    |    |    | CR-5T<br>160(32) |    |    |    |    |    |    |    |    |    |    |   |  |  |
| 31 DSN COVERAGE  | <p>0755 14 [D]<br/>10<br/>40<br/>2100 63 [D] 2315<br/>60</p>  |   |   |    |    |    |    |    |    |    |    |    |    |                  |    |    |    |    |    |    |    |    |    |    |   |  |  |
| 32 DSN COVERAGE  | <p>45 [D] 1350<br/>1330 43 [D] 1715<br/>40</p>  |   |   |    |    |    |    |    |    |    |    |    |    |                  |    |    |    |    |    |    |    |    |    |    |   |  |  |
| S/C 32<br>INITIAL CONDITIONS<br>RTLTL: 28h 18m 2s<br>CCSL: B161<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25/<br>GYROS: AC ON | <p style="text-align: center;">  1200 RTLTL 28h 18m 12s</p> <p style="text-align: center;">↓ 1700 GYRO INIT</p> |   |   |    |    |    |    |    |    |    |    |    |    |                  |    |    |    |    |    |    |    |    |    |    |   |  |  |
| FDS MODE<br>XB DATA RATE(MI)   |   |   |   |    |    |    |    |    |    |    |    |    |    | CR-5T<br>160(32) |    |    |    |    |    |    |    |    |    |    |   |  |  |
| VGR COVERAGE   | ON CALL   |   |   |    |    |    |    |    |    |    |    |    |    |                  |    |    |    |    |    |    |    |    |    |    |   |  |  |
| NOTES  | <b>JPL HOLIDAY!</b>   |   |   |    |    |    |    |    |    |    |    |    |    |                  |    |    |    |    |    |    |    |    |    |    |   |  |  |
| 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           |    |    |    |    |    |    |    |    |    |    |   |  |  |