

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: December 11, 2008

For the Period: 12/11/08 to 12/29/08 (08-346-08-364)

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

**SCIENCE**

**FLIGHT TEAM (15) 600-100**

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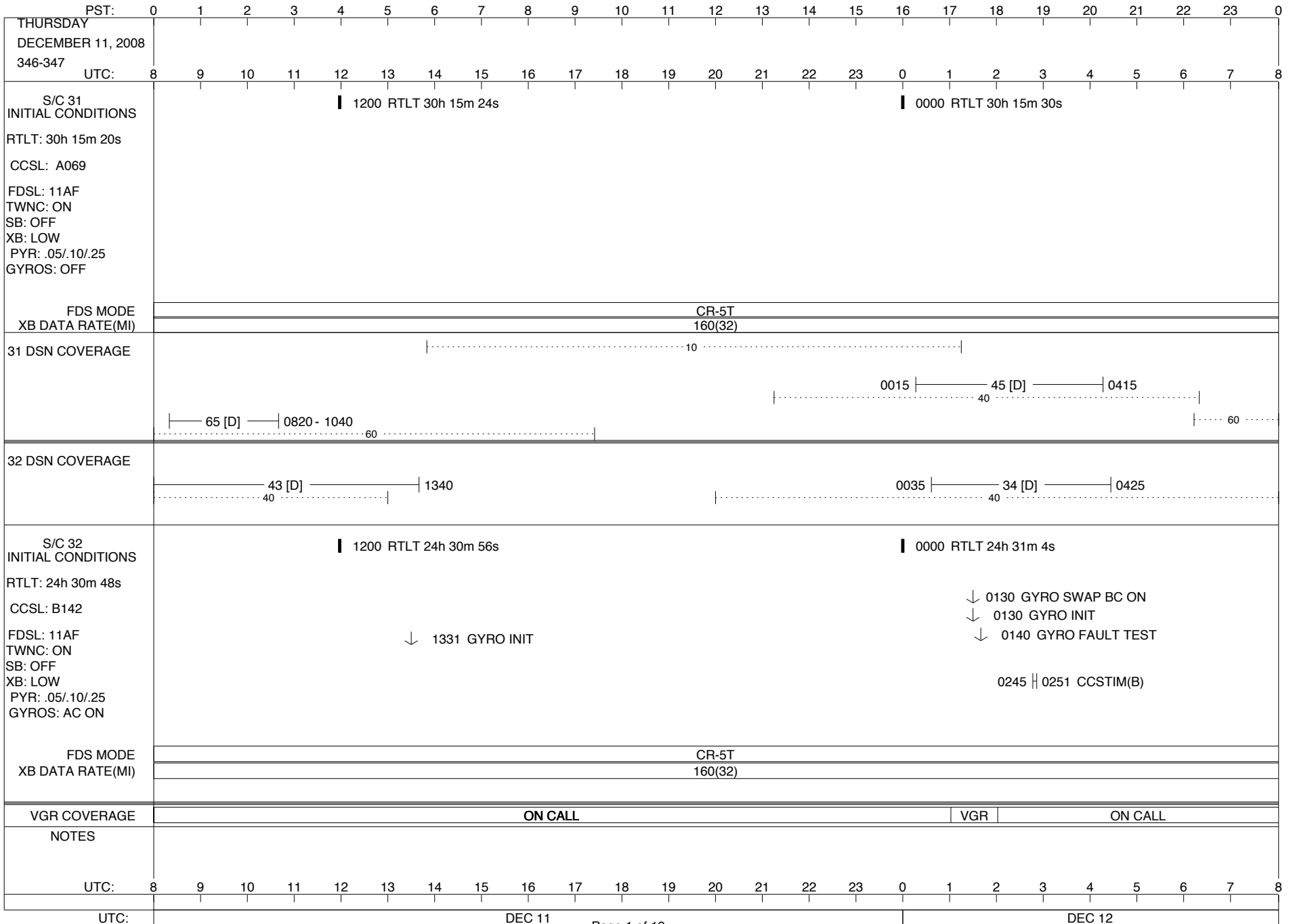
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**LEGEND:**  
 ▽ = R/T Command (Last chance or Contingency)  
 ▼ = R/T Command (Scheduled)  
 \* = Result of R/T Command  
 n = (where n = 1,2,3 ..) Special Note, see bottom of page  
 A = Arrayed station  
 B = 7-Point BLF  
 D = Downlink only pass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

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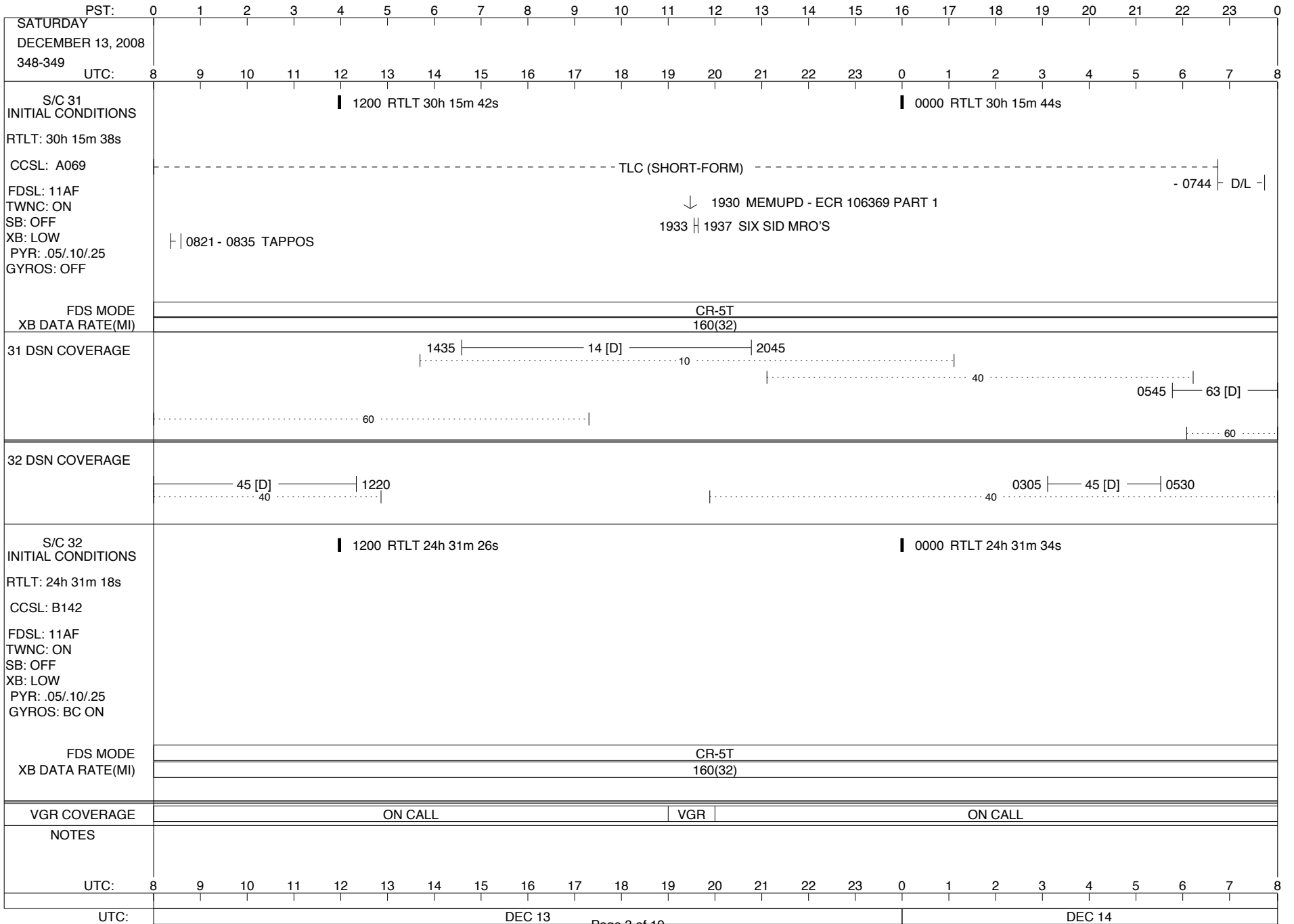
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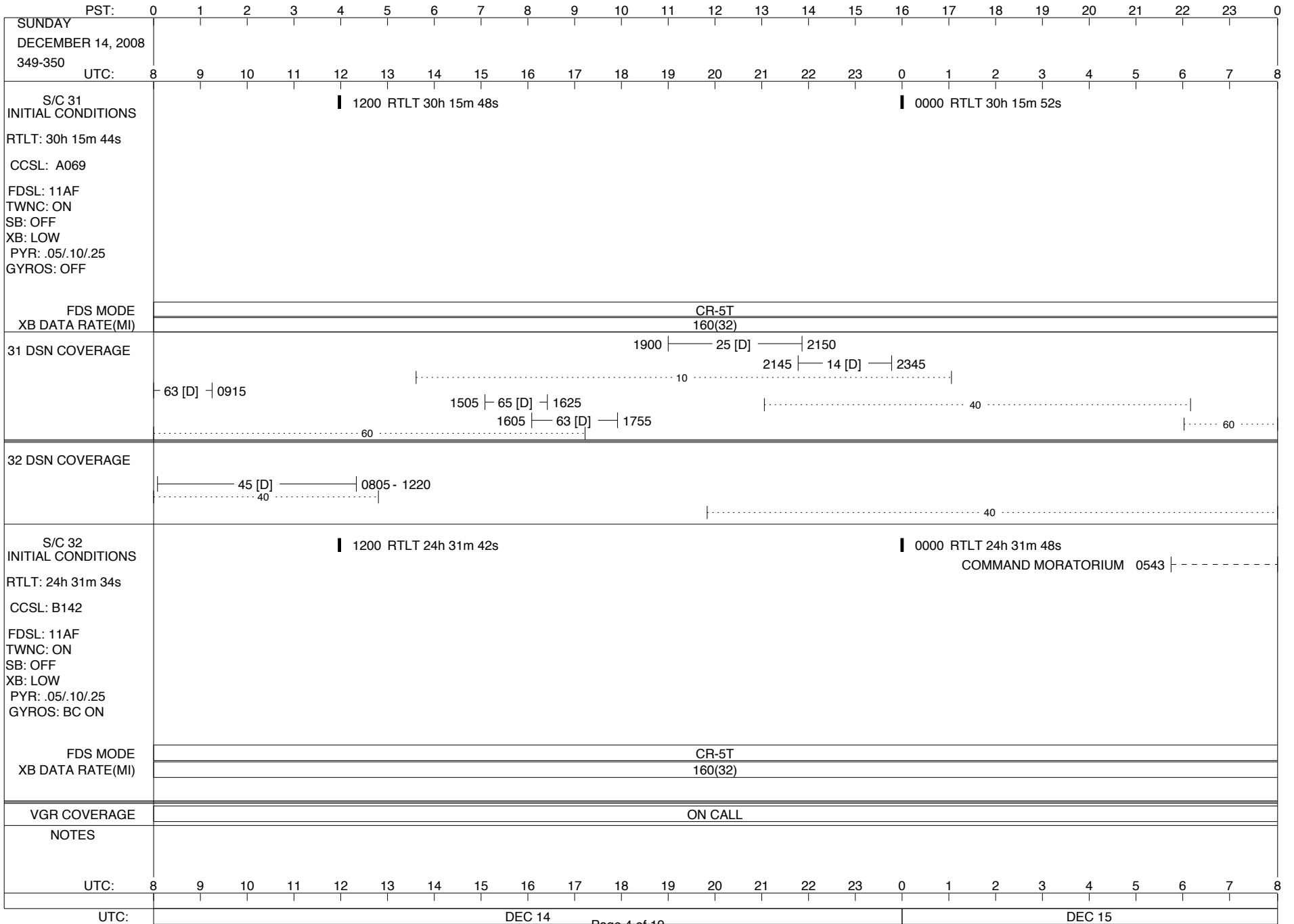
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| PST:  | 0   | 1 | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12  | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0 |
|---|---|---|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|---|
| FRIDAY<br>DECEMBER 12, 2008<br>347-348  |   |   |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |   |
| 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<br>INITIAL CONDITIONS<br>RTLTL: 30h 15m 30s<br>CCSL: A069<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25<br>GYROS: OFF  | █ 1200 RTLTL 30h 15m 34s                            |   |    |    |    |    |    |    |    |    |    |    | █ 0000 RTLTL 30h 15m 38s                            |    |    |    |    |    |    |    |    |    |    |    |   |
|   |   |   |    |    |    |    |    |    |    |    |    |    | ▼ 2335 DUMMY (05:51)                                |    |    |    |    |    |    |    |    |    |    |    |   |
|   |   |   |    |    |    |    |    |    |    |    |    |    | U/L 0000   -   - - - - - TLC (SHORT-FORM) - - - - - |    |    |    |    |    |    |    |    |    |    |    |   |
|   |   |   |    |    |    |    |    |    |    |    |    |    | 0312   -   0339 TAPPOS                              |    |    |    |    |    |    |    |    |    |    |    |   |
|   |   |   |    |    |    |    |    |    |    |    |    |    | PWS/RH 0614   0615                                  |    |    |    |    |    |    |    |    |    |    |    |   |
|   |   |   |    |    |    |    |    |    |    |    |    |    | 0614 GS-4B 0615 ↓                                   |    |    |    |    |    |    |    |    |    |    |    |   |
| FDS MODE  | CR-5T   |   |    |    |    |    |    |    |    |    |    |    | CR-5T   |    |    |    |    |    |    |    |    |    |    |    |   |
| XB DATA RATE(MI)  | 160(32)   |   |    |    |    |    |    |    |    |    |    |    | 160(32)   |    |    |    |    |    |    |    |    |    |    |    |   |
| 31 DSN COVERAGE   | 1915  -----  14 [T]  -----  0100                    |   |    |    |    |    |    |    |    |    |    |    | 0040  -----  45 [D]  -----  0410                    |    |    |    |    |    |    |    |    |    |    |    |   |
|   | ..... 60 .....                                      |   |    |    |    |    |    |    |    |    |    |    | ..... 40 .....                                      |    |    |    |    |    |    |    |    |    |    |    |   |
| 32 DSN COVERAGE   | 0925  -----  43 [D]  -----  1340                    |   |    |    |    |    |    |    |    |    |    |    | 0455  -----  45 [D]  -----                          |    |    |    |    |    |    |    |    |    |    |    |   |
|   | ..... 40 .....                                      |   |    |    |    |    |    |    |    |    |    |    | ..... 40 .....                                      |    |    |    |    |    |    |    |    |    |    |    |   |
| S/C 32<br>INITIAL CONDITIONS<br>RTLTL: 24h 31m 4s<br>CCSL: B142<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25<br>GYROS: BC ON | █ 1200 RTLTL 24h 31m 10s                            |   |    |    |    |    |    |    |    |    |    |    | █ 0000 RTLTL 24h 31m 18s                            |    |    |    |    |    |    |    |    |    |    |    |   |
| 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=GS-4B @ 0614 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 12  |   |    |    |    |    |    |    |    |    |    |    | DEC 13  |    |    |    |    |    |    |    |    |    |    |    |   |

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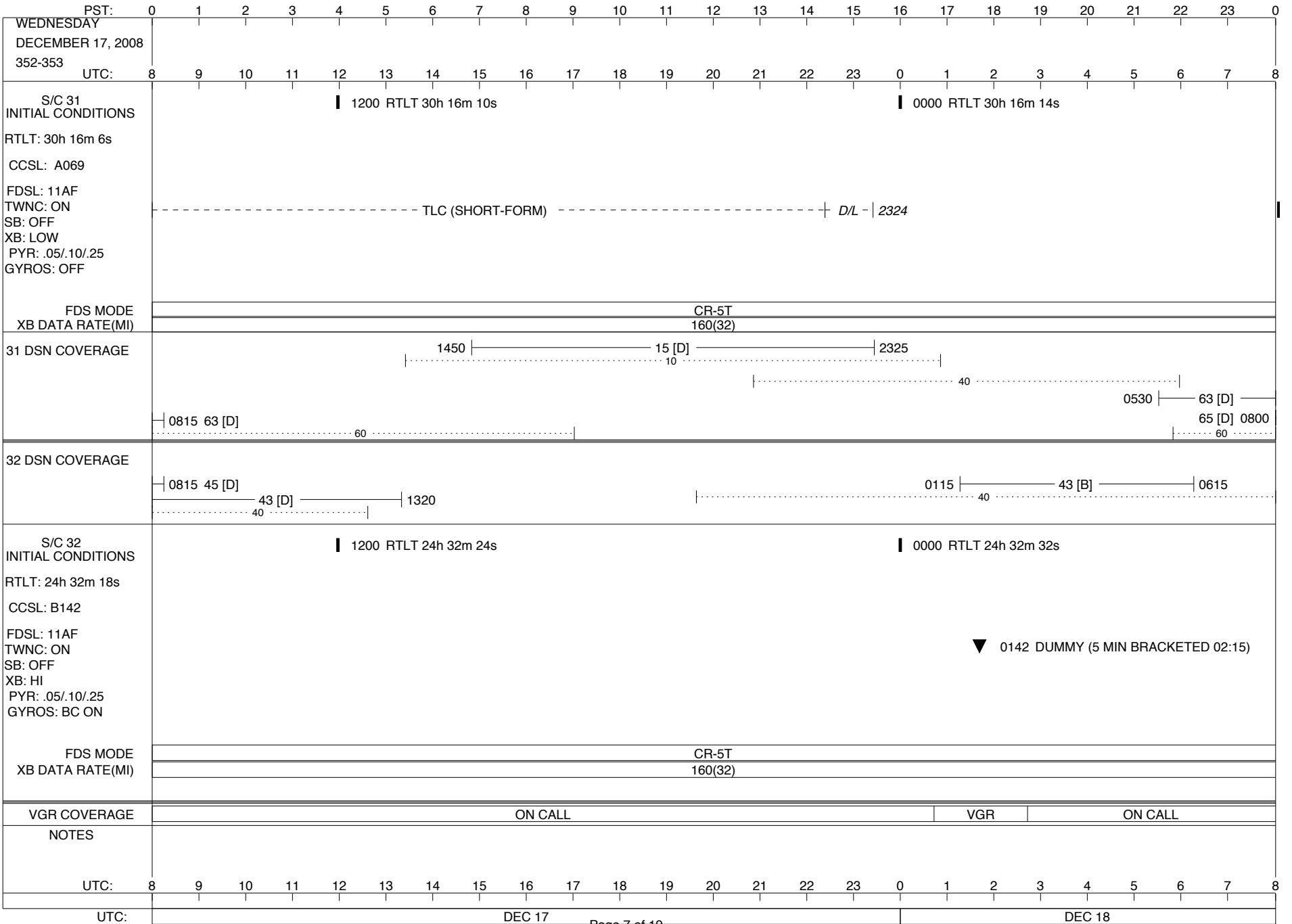
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| PST:   | 0   | 1 | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12                          | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0 |  |
|--|---|---|----|----|----|----|----|----|----|----|----|----|-----------------------------|----|----|----|----|----|----|----|----|----|----|----|---|--|
| MONDAY<br>DECEMBER 15, 2008<br>350-351   |   |   |    |    |    |    |    |    |    |    |    |    |                             |    |    |    |    |    |    |    |    |    |    |    |   |  |
| 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<br>INITIAL CONDITIONS<br>RTLTL: 30h 15m 52s<br>CCSL: A069<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/10/25<br>GYROS: OFF   | 1200 RTLTL 30h 15m 56s  |   |    |    |    |    |    |    |    |    |    |    | 0000 RTLTL 30h 16m 0s       |    |    |    |    |    |    |    |    |    |    |    |   |  |
| FDS MODE   | CR-5T   |   |    |    |    |    |    |    |    |    |    |    |                             |    |    |    |    |    |    |    |    |    |    |    |   |  |
| XB DATA RATE(MI)   | 160(32)   |   |    |    |    |    |    |    |    |    |    |    |                             |    |    |    |    |    |    |    |    |    |    |    |   |  |
| 31 DSN COVERAGE  | 1425   14 [D]   1545<br>1755   10   15 [D]   2330<br>2325   45 [D]   0400<br>60   0540 - 0725   63 [D]   60 |   |    |    |    |    |    |    |    |    |    |    |                             |    |    |    |    |    |    |    |    |    |    |    |   |  |
| 32 DSN COVERAGE  | 34 [D]   0815 - 0945<br>0925   43 [D]   1325<br>40   40   |   |    |    |    |    |    |    |    |    |    |    | 0530   43 [D]   45 [D] 0755 |    |    |    |    |    |    |    |    |    |    |    |   |  |
| S/C 32<br>INITIAL CONDITIONS<br>RTLTL: 24h 31m 48s<br>CCSL: B142<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/10/25<br>GYROS: BC ON | 1200 RTLTL 24h 31m 56s  |   |    |    |    |    |    |    |    |    |    |    | 0000 RTLTL 24h 32m 4s       |    |    |    |    |    |    |    |    |    |    |    |   |  |
| FDS MODE   | CR-5T   |   |    |    |    |    |    |    |    |    |    |    | EH-12 CR-5T                 |    |    |    |    |    |    |    |    |    |    |    |   |  |
| XB DATA RATE(MI)   | 160(32)   |   |    |    |    |    |    |    |    |    |    |    |                             |    |    |    |    |    |    |    |    |    |    |    |   |  |
| VGR COVERAGE   | ON CALL   |   |    |    |    |    |    |    |    |    |    |    | VGR                         |    |    |    |    |    |    |    |    |    |    |    |   |  |
| NOTES  | [1] S/C 32=EH-12 @ 0600 XB=1.2K(39)<br>[2] S/C 32=CR-5T @ 0659 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 15  |   |    |    |    |    |    |    |    |    |    |    | DEC 16                      |    |    |    |    |    |    |    |    |    |    |    |   |  |

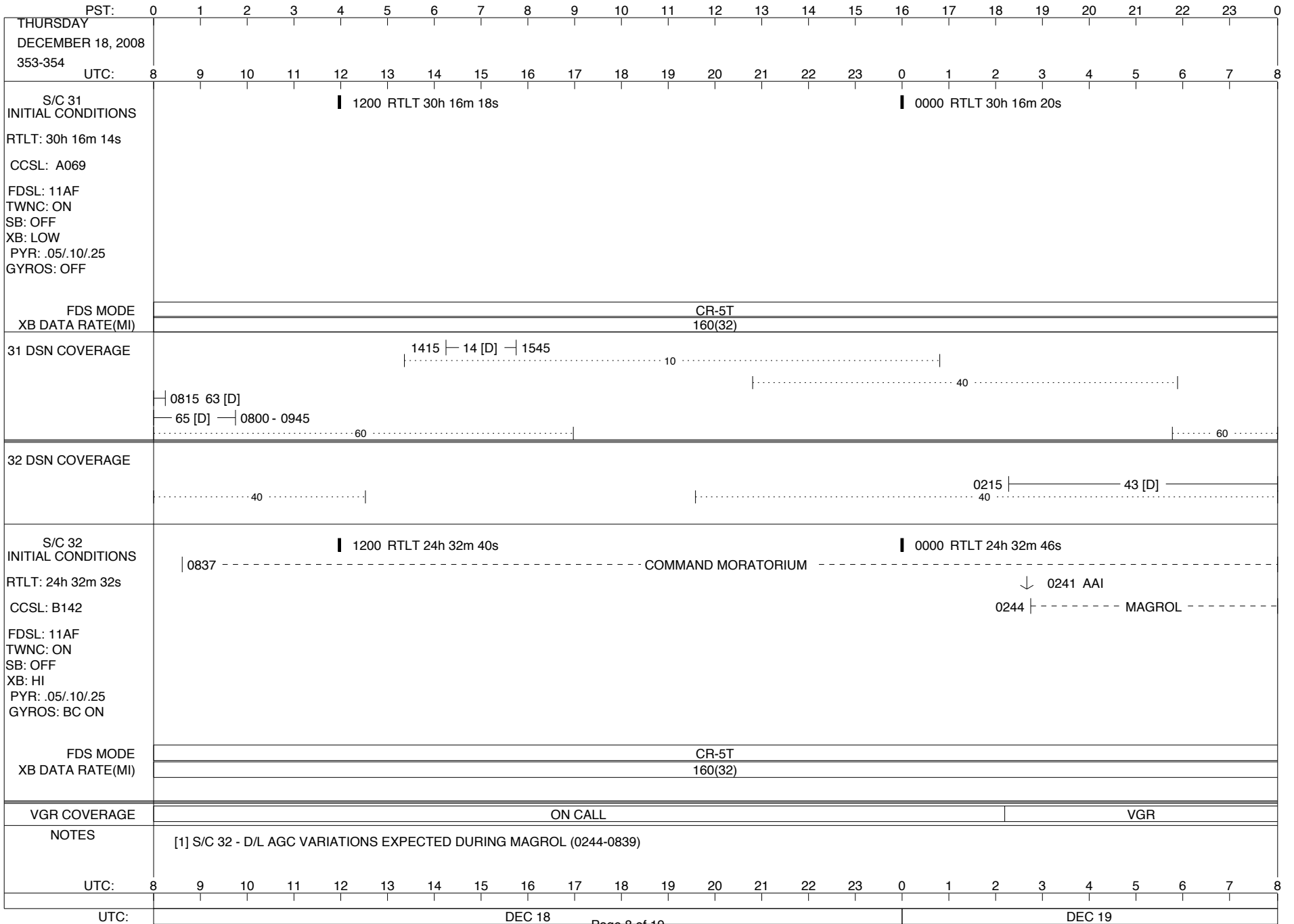
| PST:                         |  | 0   | 1 | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12                    | 13 | 14      | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0 |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|--|---|---|----|----|----|----|----|----|----|----|----|----|-----------------------|----|---------|----|----|----|----|----|----|----|----|----|---|--|--|--|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| TUESDAY                      |  |   |   |    |    |    |    |    |    |    |    |    |    |                       |    |         |    |    |    |    |    |    |    |    |    |   |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DECEMBER 16, 2008            |  |   |   |    |    |    |    |    |    |    |    |    |    |                       |    |         |    |    |    |    |    |    |    |    |    |   |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 351-352                      |  |   |   |    |    |    |    |    |    |    |    |    |    |                       |    |         |    |    |    |    |    |    |    |    |    |   |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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<br>INITIAL CONDITIONS |  | 1200 RTLT 30h 16m 4s  |   |    |    |    |    |    |    |    |    |    |    | 0000 RTLT 30h 16m 6s  |    |         |    |    |    |    |    |    |    |    |    |   |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RTLT: 30h 16m 0s             |  | ↓ 1419 MEMUPD - ECR 106369 PART 2   |   |    |    |    |    |    |    |    |    |    |    |                       |    |         |    |    |    |    |    |    |    |    |    |   |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCSL: A069                   |  | 1422   1423 TWO SID MRO'S   |   |    |    |    |    |    |    |    |    |    |    |                       |    |         |    |    |    |    |    |    |    |    |    |   |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FDSL: 11AF                   |  | U/L 1540   - - - - - TLC (SHORT-FORM) - - - - -   |   |    |    |    |    |    |    |    |    |    |    |                       |    |         |    |    |    |    |    |    |    |    |    |   |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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              |  | 1825  -----  15 [D]  -----  2320<br> -----  10  -----  40<br>1400  -----  63 [T]  -----  1745<br> -----  60  -----  0535  -----  63 [D]  -----  60      |   |    |    |    |    |    |    |    |    |    |    |                       |    |         |    |    |    |    |    |    |    |    |    |   |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 32 DSN COVERAGE              |  | 0815 43 [D]<br> -----  45 [D]  -----  1145<br>1125  -----  43 [D]  -----  1325<br> -----  40  -----  0220  -----  45 [D]  -----  43 [D] 0755  -----  40 |   |    |    |    |    |    |    |    |    |    |    |                       |    |         |    |    |    |    |    |    |    |    |    |   |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| S/C 32<br>INITIAL CONDITIONS |  | 1200 RTLT 24h 32m 10s   |   |    |    |    |    |    |    |    |    |    |    | 0000 RTLT 24h 32m 18s |    |         |    |    |    |    |    |    |    |    |    |   |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RTLT: 24h 32m 4s             |  | ----- COMMAND MORATORIUM -----   0516   |   |    |    |    |    |    |    |    |    |    |    |                       |    |         |    |    |    |    |    |    |    |    |    |   |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCSL: B142                   |  | 0303   PLSCAL -   0446  |   |    |    |    |    |    |    |    |    |    |    |                       |    |         |    |    |    |    |    |    |    |    |    |   |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FDSL: 11AF                   |  | 0303   - - - - MAGCAL - - - -   0606  |   |    |    |    |    |    |    |    |    |    |    |                       |    |         |    |    |    |    |    |    |    |    |    |   |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TWNC: ON                     |  | 0303   - - - - PESCAL - - - -   0623  |   |    |    |    |    |    |    |    |    |    |    |                       |    |         |    |    |    |    |    |    |    |    |    |   |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SB: OFF                      |  |   |   |    |    |    |    |    |    |    |    |    |    |                       |    |         |    |    |    |    |    |    |    |    |    |   |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| XB: HI                       |  |   |   |    |    |    |    |    |    |    |    |    |    |                       |    |         |    |    |    |    |    |    |    |    |    |   |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PYR: .05/.10/.25             |  |   |   |    |    |    |    |    |    |    |    |    |    |                       |    |         |    |    |    |    |    |    |    |    |    |   |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GYROS: BC ON                 |  |   |   |    |    |    |    |    |    |    |    |    |    |                       |    |         |    |    |    |    |    |    |    |    |    |   |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FDS MODE                     |  | CR-5T   |   |    |    |    |    |    |    |    |    |    |    |                       |    |         |    |    |    |    |    |    |    |    |    |   |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| XB DATA RATE(MI)             |  | 160(32)   |   |    |    |    |    |    |    |    |    |    |    |                       |    |         |    |    |    |    |    |    |    |    |    |   |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| VGR COVERAGE                 |  | ON CALL   |   |    |    |    |    |    |    |    |    |    |    |                       |    | VGR     |    |    |    |    |    |    |    |    |    |   |  |  |  | ON CALL |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NOTES                        |  | [1] S/C 31=GS-4B @ 2350 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 16  |   |    |    |    |    |    |    |    |    |    |    |                       |    | DEC 17  |    |    |    |    |    |    |    |    |    |   |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |

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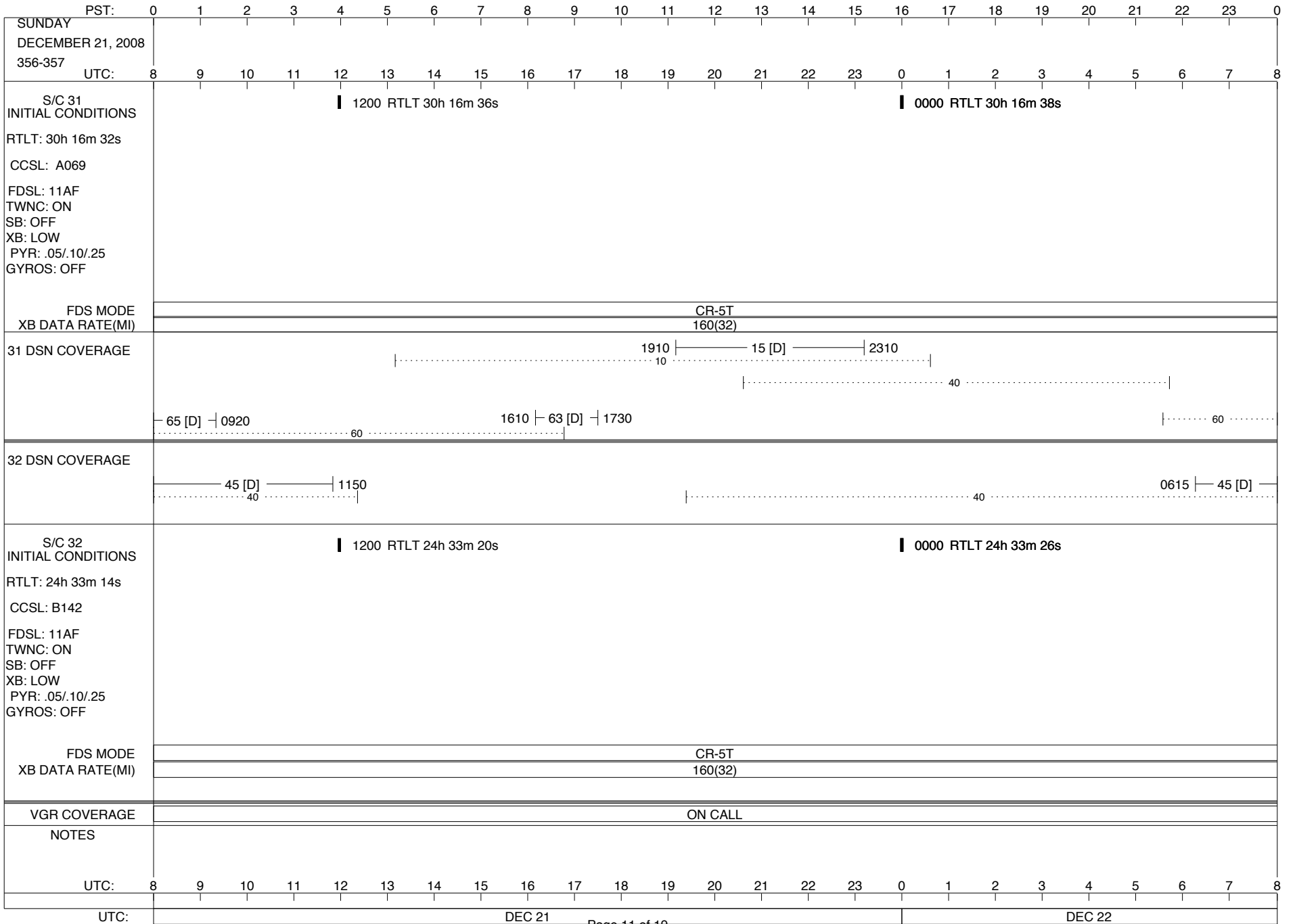


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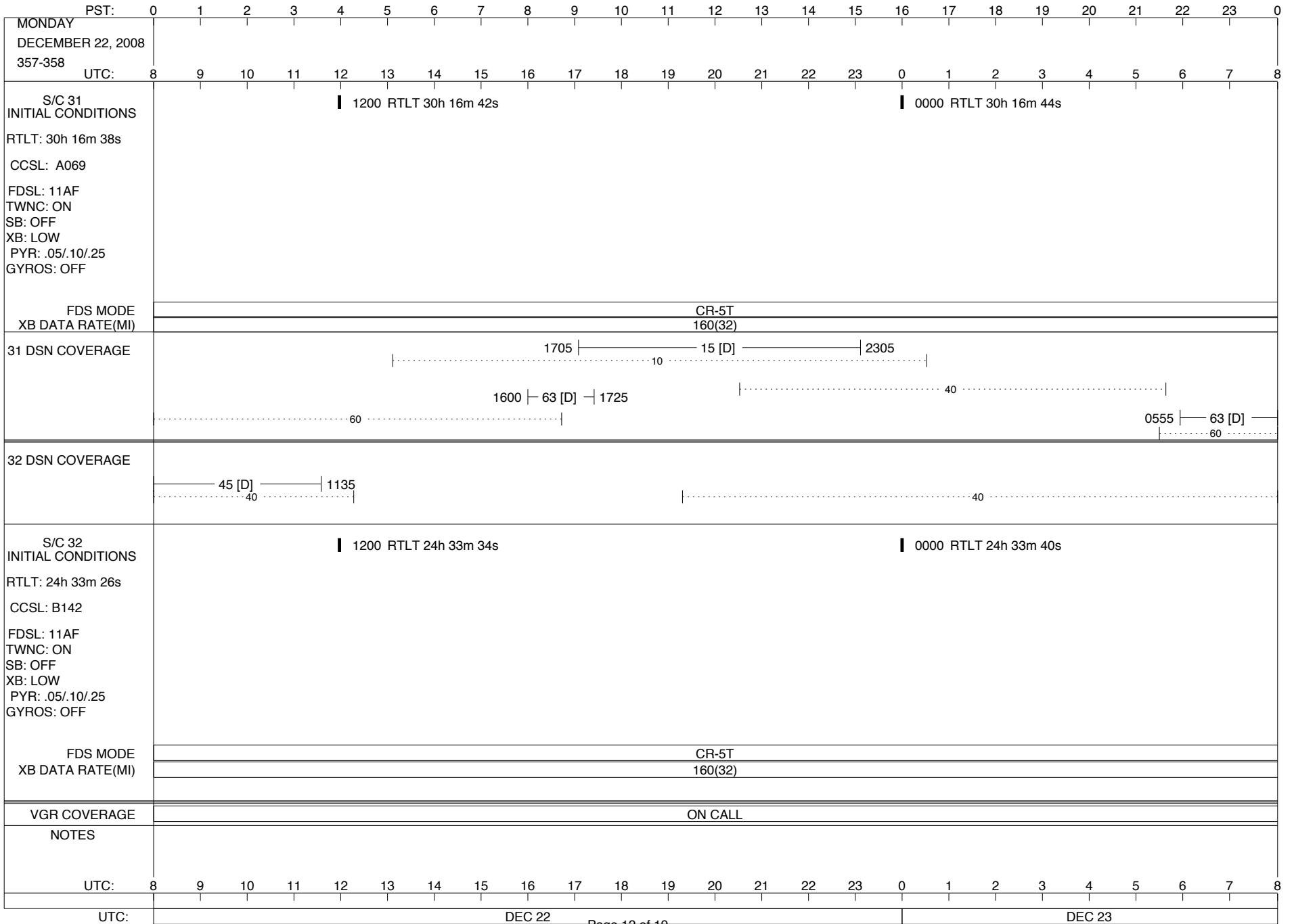
|  |   |
|--|---|
| PST: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0   |   |
| FRIDAY<br>DECEMBER 19, 2008<br>354-355   |   |
| UTC: 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 8   |   |
| S/C 31<br>INITIAL CONDITIONS<br>RTLT: 30h 16m 20s<br>CCSL: A069<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25<br>GYROS: OFF  | <p>1200 RTLT 30h 16m 24s</p> <p>0000 RTLT 30h 16m 26s</p> <p>0248   -   0315 TAPPOS</p> <p>0550   0551 PWS/RH</p> <p>TAPPOS 0758</p> <p>0550 GS-4B 0551 ↓</p>   |
| FDS MODE   | CR-5T   |
| XB DATA RATE(MI)   | 160(32)   |
| 31 DSN COVERAGE  | <p>1630  ----- 25 [D] -----  2030</p> <p>2300  ----- 14 [D] -----  0100</p> <p>0850  ----- 65 [D] -----  1325</p> <p>0520  ----- 63 [D] -----  0645</p>   |
| 32 DSN COVERAGE  | <p>43 [D] -----  1310</p> <p>0435  ----- 45 [D] -----</p>   |
| S/C 32<br>INITIAL CONDITIONS<br>RTLT: 24h 32m 46s<br>CCSL: B142<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: HI<br>PYR: .05/.10/.25<br>GYROS: BC ON | <p>1200 RTLT 24h 32m 52s</p> <p>0000 RTLT 24h 33m 0s</p> <p>----- COMMAND MORATORIUM -----</p> <p>--   0839 MAGROL</p> <p>↓ 0832 RAI</p> <p>↓ 0839 GYROS OFF</p> <p>↓ 0839 CRU</p> <p>↓ 0855 X/B LOW POWER</p> <p>↓ 0859 BAY 1 HTR ON</p> |
| FDS MODE   | CR-5T   |
| XB DATA RATE(MI)   | 160(32)   |
| VGR COVERAGE   | VGR ON CALL   |
| NOTES  | [1] S/C 31=GS-4B @ 0550 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 19 DEC 20   |

| 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 |  |  |  |
|---|--|---|---|----|----|----|----|----|----|----|----|----|----|-----------------------|----|------------------|----|---------|----|----|----|----|----|----|----|---|--|--|--|
| SATURDAY<br>DECEMBER 20, 2008<br>355-356  |  |   |   |    |    |    |    |    |    |    |    |    |    |                       |    |                  |    |         |    |    |    |    |    |    |    |   |  |  |  |
| 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<br>INITIAL CONDITIONS<br>RTLT: 30h 16m 26s<br>CCSL: A069<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25<br>GYROS: OFF |  | 1200 RTLT 30h 16m 30s   |   |    |    |    |    |    |    |    |    |    |    | 0000 RTLT 30h 16m 32s |    |                  |    |         |    |    |    |    |    |    |    |   |  |  |  |
| FDS MODE<br>XB DATA RATE(MI)  |  | CR-5T<br>160(32)  |   |    |    |    |    |    |    |    |    |    |    | EH-12                 |    | CR-5T<br>160(32) |    |         |    |    |    |    |    |    |    |   |  |  |  |
| 31 DSN COVERAGE   |  | <p>1830   15 [DAR]   2030</p> <p>1830   10   14 [DA]   0055</p> <p>0520   63 [D]   0645</p> <p>65 [D] 0735   60</p> |   |    |    |    |    |    |    |    |    |    |    |                       |    |                  |    |         |    |    |    |    |    |    |    |   |  |  |  |
| 32 DSN COVERAGE   |  | <p>45 [D]   0915</p> <p>0855   43 [o]   1215</p> <p>0500   45 [D]</p>   |   |    |    |    |    |    |    |    |    |    |    |                       |    |                  |    |         |    |    |    |    |    |    |    |   |  |  |  |
| S/C 32<br>INITIAL CONDITIONS<br>RTLT: 24h 33m 0s<br>CCSL: B142<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25<br>GYROS: OFF  |  | 1200 RTLT 24h 33m 6s  |   |    |    |    |    |    |    |    |    |    |    | 0000 RTLT 24h 33m 14s |    |                  |    |         |    |    |    |    |    |    |    |   |  |  |  |
| FDS MODE<br>XB DATA RATE(MI)  |  | CR-5T<br>160(32)  |   |    |    |    |    |    |    |    |    |    |    |                       |    |                  |    |         |    |    |    |    |    |    |    |   |  |  |  |
| VGR COVERAGE  |  | ON CALL   |   |    |    |    |    |    |    |    |    |    |    | VGR                   |    |                  |    | ON CALL |    |    |    |    |    |    |    |   |  |  |  |
| NOTES   |  | <p>[1] S/C 31=EH-12 XB=1.2K(39) @ 1916</p> <p>[2] S/C 31=CR-5T XB=160(32) @ 2014</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 20  |   |    |    |    |    |    |    |    |    |    |    |                       |    |                  |    | DEC 21  |    |    |    |    |    |    |    |   |  |  |  |

ISSUE DATE: 12/11/08 18:25



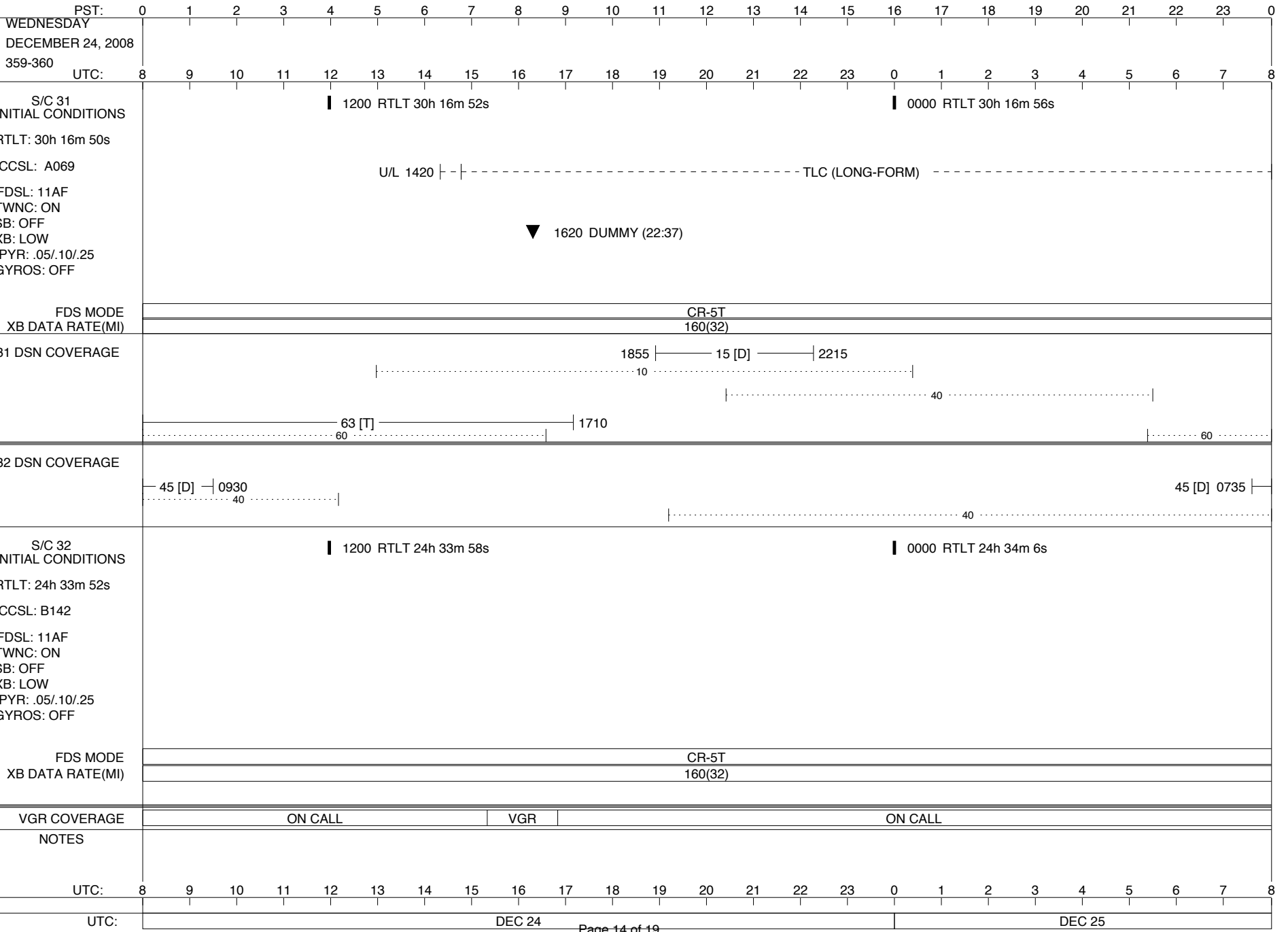
ISSUE DATE: 12/11/08 18:25

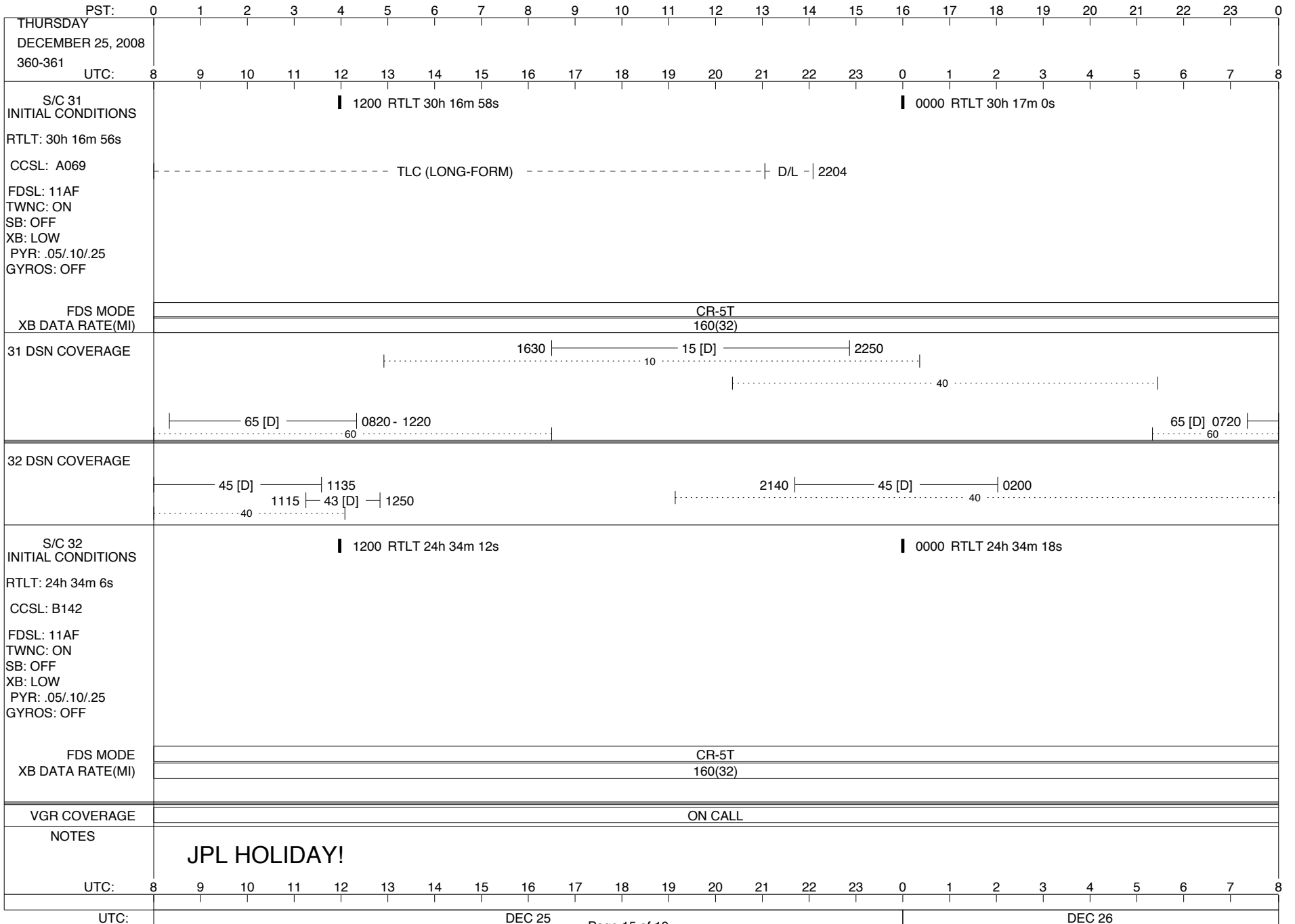


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|  |  |  |
|--|--|--|
| TUESDAY<br>DECEMBER 23, 2008<br>358-359  |  | PST: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 |
| UTC: 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 8   |  |  |
| S/C 31<br>INITIAL CONDITIONS<br>RTLTL: 30h 16m 44s<br>CCSL: A069<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25<br>GYROS: OFF | <div style="display: flex; justify-content: space-between;"> <span>1200 RTLTL 30h 16m 48s</span> <span>0000 RTLTL 30h 16m 50s</span> </div> <p style="text-align: center;">2327   2327 PWS/RH</p> <p style="text-align: center;">↓ 2326 GS-4B 2327</p> |  |
| FDS MODE<br>XB DATA RATE(MI)   | CR-5T<br>160(32)   | CR-5T<br>160(32)   |
| 31 DSN COVERAGE  | <p style="text-align: center;">1815   25 [D]   2115</p> <p style="text-align: center;">10   40</p> <p>63 [D]   1010 <span style="float: right;">0645   63 [T]</span></p> <p style="text-align: center;">60   60</p>                                    |  |
| 32 DSN COVERAGE  | <p>43 [o]   0810 - 1300 <span style="float: right;">1845   43 [B]   2045</span></p> <p style="text-align: center;">40   40</p> <p style="text-align: right;">0530   45 [D]</p>   |  |
| S/C 32<br>INITIAL CONDITIONS<br>RTLTL: 24h 33m 40s<br>CCSL: B142<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25<br>GYROS: OFF | <div style="display: flex; justify-content: space-between;"> <span>1200 RTLTL 24h 33m 46s</span> <span>0000 RTLTL 24h 33m 52s</span> </div> <p style="text-align: center;">▼ 1942 DUMMY (5 MIN BRACKETED 20:16)</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 @ 2326 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 23  |  | DEC 24   |

ISSUE DATE: 12/11/08 18:25

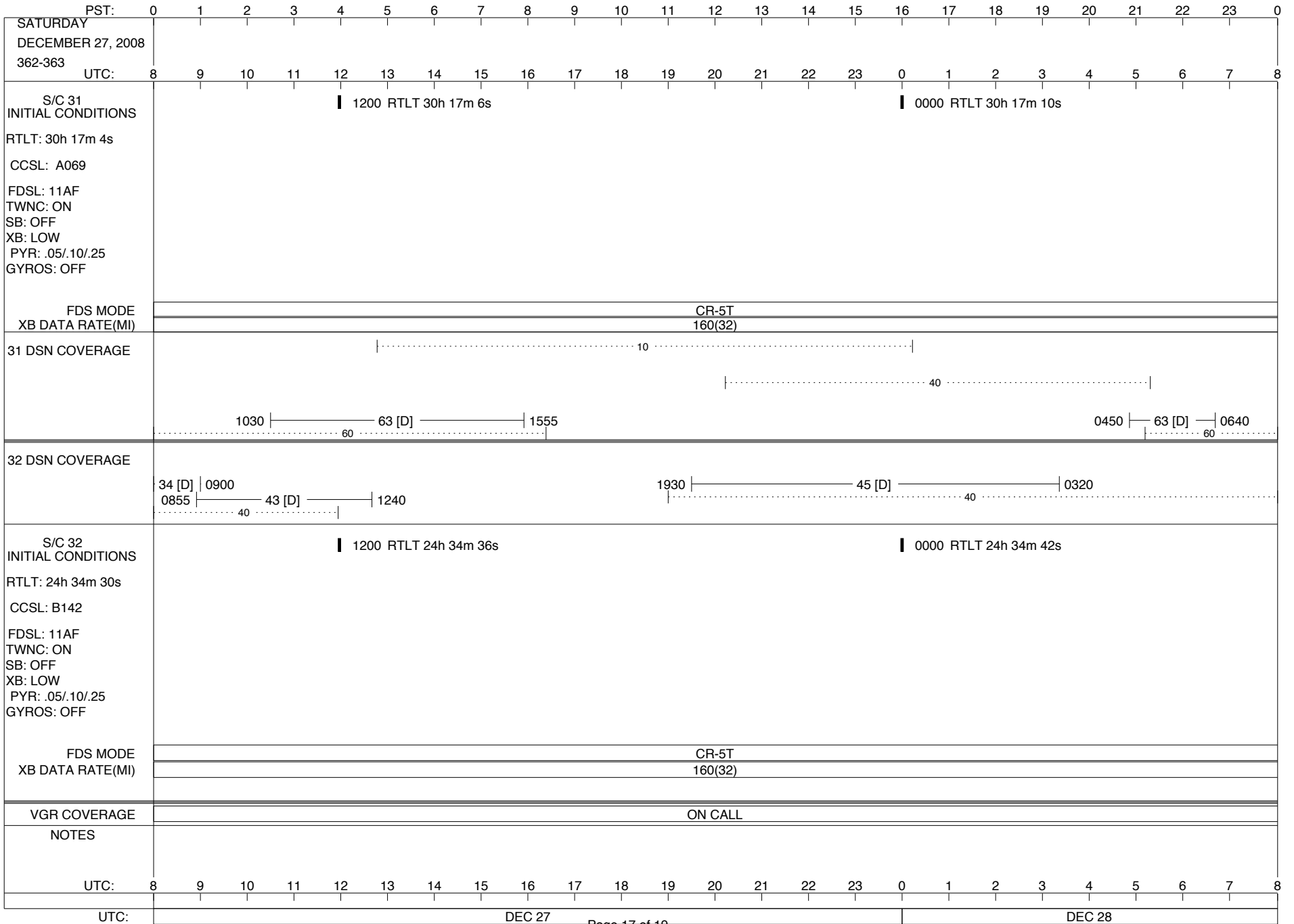






| PST:   | 0  | 1 | 2  | 3  | 4                        | 5  | 6  | 7  | 8  | 9  | 10 | 11      | 12 | 13     | 14 | 15 | 16                       | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0 |  |
|--|--|---|----|----|--------------------------|----|----|----|----|----|----|---------|----|--------|----|----|--------------------------|----|----|----|----|----|----|----|---|--|
| FRIDAY<br>DECEMBER 26, 2008<br>361-362   |  |   |    |    |                          |    |    |    |    |    |    |         |    |        |    |    |                          |    |    |    |    |    |    |    |   |  |
| 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<br>INITIAL CONDITIONS<br>RTLTL: 30h 17m 0s<br>CCSL: A069<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25<br>GYROS: OFF  |  |   |    |    | █ 1200 RTLTL 30h 17m 2s  |    |    |    |    |    |    |         |    |        |    |    | █ 0000 RTLTL 30h 17m 4s  |    |    |    |    |    |    |    |   |  |
| FDS MODE   | CR-5T  |   |    |    |                          |    |    |    |    |    |    | CR-5T   |    |        |    |    |                          |    |    |    |    |    |    |    |   |  |
| XB DATA RATE(MI)   | 160(32)  |   |    |    |                          |    |    |    |    |    |    | 160(32) |    |        |    |    |                          |    |    |    |    |    |    |    |   |  |
| 31 DSN COVERAGE  |  |   |    |    |                          |    |    |    |    |    |    |         |    |        |    |    |                          |    |    |    |    |    |    |    |   |  |
|  |  |   |    |    |                          |    |    |    |    |    |    |         |    |        |    |    |                          |    |    |    |    |    |    |    |   |  |
| 32 DSN COVERAGE  |  |   |    |    |                          |    |    |    |    |    |    |         |    |        |    |    |                          |    |    |    |    |    |    |    |   |  |
| S/C 32<br>INITIAL CONDITIONS<br>RTLTL: 24h 34m 18s<br>CCSL: B142<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25<br>GYROS: OFF |  |   |    |    | █ 1200 RTLTL 24h 34m 24s |    |    |    |    |    |    |         |    |        |    |    | █ 0000 RTLTL 24h 34m 30s |    |    |    |    |    |    |    |   |  |
| 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 @ 0526 XB=2.8K(41) NOT RECOVERABLE<br><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:   | DEC 26   |   |    |    |                          |    |    |    |    |    |    |         |    | DEC 27 |    |    |                          |    |    |    |    |    |    |    |   |  |

ISSUE DATE: 12/11/08 18:25



ISSUE DATE: 12/11/08 18:25

| 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 |
|---|--|---|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|---|
| SUNDAY<br>DECEMBER 28, 2008<br>363-364  | 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<br>INITIAL CONDITIONS<br>RTLT: 30h 17m 10s<br>CCSL: A069<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25<br>GYROS: OFF | █ 1200 RTLT 30h 17m 12s                        |   |    |    |    |    |    |    |    |    |    |    | █ 0000 RTLT 30h 17m 14s                                     |    |    |    |    |    |    |    |    |    |    |    |   |
| FDS MODE<br>XB DATA RATE(MI)  |  |   |    |    |    |    |    |    |    |    |    |    | CR-5T<br>160(32)  |    |    |    |    |    |    |    |    |    |    |    |   |
| 31 DSN COVERAGE   | -----1800----- -----15 [D]----- -----2240----- |   |    |    |    |    |    |    |    |    |    |    | -----40----- -----0445----- -----63 [D]----- -----0700----- |    |    |    |    |    |    |    |    |    |    |    |   |
| 32 DSN COVERAGE   | -----40----- -----1925----- -----45 [D]-----   |   |    |    |    |    |    |    |    |    |    |    | -----40----- -----65 [D] 0705----- -----60-----             |    |    |    |    |    |    |    |    |    |    |    |   |
| S/C 32<br>INITIAL CONDITIONS<br>RTLT: 24h 34m 42s<br>CCSL: B142<br>FDSL: 11AF<br>TWNC: ON<br>SB: OFF<br>XB: LOW<br>PYR: .05/.10/.25<br>GYROS: OFF | █ 1200 RTLT 24h 34m 48s                        |   |    |    |    |    |    |    |    |    |    |    | █ 0000 RTLT 24h 34m 52s                                     |    |    |    |    |    |    |    |    |    |    |    |   |
| FDS MODE<br>XB DATA RATE(MI)  |  |   |    |    |    |    |    |    |    |    |    |    | CR-5T<br>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 28   |   |    |    |    |    |    |    |    |    |    |    | DEC 29  |    |    |    |    |    |    |    |    |    |    |    |   |

| 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<br>DECEMBER 29, 2008<br>364-365  | 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<br>INITIAL CONDITIONS<br>RTLT: 30h 17m 14s<br>CCSL: A069<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;"> </div> |   |    |    |    |    |    |    |    |    |    |    |                  |    |    |    |    |    |    |    |    |    |    |    |   |
| FDS MODE<br>XB DATA RATE(MI)  |  |   |    |    |    |    |    |    |    |    |    |    | CR-5T<br>160(32) |    |    |    |    |    |    |    |    |    |    |    |   |
| 31 DSN COVERAGE   | <div style="text-align: center;"> </div> |   |    |    |    |    |    |    |    |    |    |    |                  |    |    |    |    |    |    |    |    |    |    |    |   |
| 32 DSN COVERAGE   | <div style="text-align: center;"> </div> |   |    |    |    |    |    |    |    |    |    |    |                  |    |    |    |    |    |    |    |    |    |    |    |   |
| S/C 32<br>INITIAL CONDITIONS<br>RTLT: 24h 34m 52s<br>CCSL: B142<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;"> </div> |   |    |    |    |    |    |    |    |    |    |    |                  |    |    |    |    |    |    |    |    |    |    |    |   |
| FDS MODE<br>XB DATA RATE(MI)  |  |   |    |    |    |    |    |    |    |    |    |    | CR-5T<br>160(32) |    |    |    |    |    |    |    |    |    |    |    |   |
| VGR COVERAGE  | 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 29                                   |   |    |    |    |    |    |    |    |    |    |    | DEC 30           |    |    |    |    |    |    |    |    |    |    |    |   |