**THURSDAY**

**NOVEMBER 28, 2002**

**332-333**

<table>
<thead>
<tr>
<th>UTC:</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### VOYAGER 1

- **FDSL**: 11AF
- **CCSL**: A045
- **TWNC**: ON
- **SB**: OFF
- **XB**: LOW
- **PYR**: .05/.10/.25
- **GYROS**: AB ON

**FDS MODE**

- **XB DATA RATE (MI)**
  - RTLT: 24h 14m 30s
  - FDS CLOCK DRIFT:
    - ADD TO S/C EVENT
    - ERT: -23.233 sec
    - ROLLREF = RIGIL
    - KENTAURUS

### S/C 31 STATUS

- **CR-ST**
  - 160 (32)

#### DSN COVERAGE

- **HPTXR**: 31
  - 1450 [D] 1740 [D] 2235 [D] 0210
  - 34 [D] 1240
  - 0520 [O] 34 [O]

### VOYAGER 2

- **FDSL**: 11AF
- **CCSL**: B118
- **TWNC**: ON
- **SB**: OFF
- **XB**: LOW
- **PYR**: .05/.10/.25
- **GYROS**: OFF

**FDS MODE**

- **XB DATA RATE (MI)**
  - RTLT: 19h 14m 44s
  - FDS CLOCK DRIFT:
    - ADD TO S/C EVENT
    - ERT: -2.13.216 min
    - ROLLREF = VEGA

### S/C 32 STATUS

- **CR-ST**
  - 160 (32)

#### DSN COVERAGE

- **HPTXR**: 32
  - 1200 RTLT=19h 14m 52s
  - 0000 RTLT=19h 15m 2s

### NOTES

*Thanksgiving Holiday*
**ISSUE DATE:** 11/27/02 - 09:25

| 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**

**NOVEMBER 29, 2002**

333-334

| UTC: | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0 |
|------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

**RTLT:** 24h 14m 42s

**VOYAGER 1**

**FDSL:** 11AF

**CCSL:** A045

**TWNC:** ON

**SB:** OFF  **XB:** LOW

**PYR:** .05/.10/.25

**GYROS:** AB ON

---

**FDS MODE**

**XB DATA RATE (MI)**

---

**CR-ST**

160 (32)

---

**DSN COVERAGE**

31

| 1320 | - - - - - - 65 [D] - - - - - - | 1750 |
| 2200 | - - - - - - 14 [D] - - - - - - | 0200 |

---

**HPTXR**

32

| - - - - - - 34 [O] - - - - - | 1120 |
| 0510 | - - - - - - 34 [D] - - - - - |

---

**HPTXR**

**RTLT:** 19h 15m 2s

**VOYAGER 2**

**FDSL:** 11AF

**CCSL:** B118

**TWNC:** ON

**SB:** OFF  **XB:** LOW

**PYR:** .05/.10/.25

**GYROS:** OFF

---

**FDS MODE**

**XB DATA RATE (MI)**

---

**CR-ST**

160 (32)

---

**VOYAGER COVERAGE**

---

**NOTES**

*Thanksgiving Holiday*
<table>
<thead>
<tr>
<th>DSN COVERAGE</th>
<th>VOYAGER COVERAGE</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUNDAY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DECEMBER 1, 2002</td>
<td></td>
<td></td>
</tr>
<tr>
<td>335-336</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ISSUE DATE:** 11/27/02 - 09:25

**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

**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

**RTLT:** 24h 15m 4s
**VOYAGER 1**
**FDSL:** 11AF
**CCSL:** A045
**TWNC:** ON
**SB:** OFF  **XB:** LOW
**PYR:** .05/.10/.25
**GYROS:** AB ON

**FDS MODE**
**XB DATA RATE (MI)**

---

**DSN COVERAGE**
**HPTXR**
31
1450 | - - - - | 63 [D] | - - - - | 1835
|

**CR-ST**
160(32)

**HPTXR**
32
--- | -45 [L] | - - - - | 1045
|

**RTLT:** 24h 15m 8s
**VOYAGER 1**
**FDSL:** 11AF
**CCSL:** A045
**TWNC:** ON
**SB:** OFF  **XB:** LOW
**PYR:** .05/.10/.25
**GYROS:** AB ON

**FDS MODE**
**XB DATA RATE (MI)**

---

**CR-ST**
160(32)

**HPTXR**
0000 RTLT=24h 15m 14s
0000 RTLT=19h 15m 56s
0545 | - - | 45 [L] | - -

**RTLT:** 19h 15m 38s
**VOYAGER 2**
**FDSL:** 11AF
**CCSL:** B118
**TWNC:** ON
**SB:** OFF  **XB:** LOW
**PYR:** .05/.10/.25
**GYROS:** OFF

**FDS MODE**
**XB DATA RATE (MI)**

---

**CR-ST**
160(32)

**HPTXR**
0000 RTLT=19h 15m 46s
0000 RTLT=19h 15m 56s
0545 | - - | 45 [L] | - -

---

**RTLT:** 19h 15m 46s
**VOYAGER 2**
**FDSL:** 11AF
**CCSL:** B118
**TWNC:** ON
**SB:** OFF  **XB:** LOW
**PYR:** .05/.10/.25
**GYROS:** OFF

**FDS MODE**
**XB DATA RATE (MI)**

---

**CR-ST**
160(32)

**HPTXR**
0000 RTLT=19h 15m 56s
0000 RTLT=19h 15m 56s
0545 | - - | 45 [L] | - -
<table>
<thead>
<tr>
<th>DSN COVERAGE</th>
<th>UTC:</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
<th>21</th>
<th>22</th>
<th>23</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>MONDAY</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DECEMBER 2, 2002</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>336-337</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PST: 0123456789</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UTC: 8910111213141516171819202122230</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

VOYAGER 1

<table>
<thead>
<tr>
<th>DSN COVERAGE</th>
<th>UTC:</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
<th>21</th>
<th>22</th>
<th>23</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDSL: 11AF</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CCSL: A045</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TWNC: ON</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SB: OFF</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>XB: LOW</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PYR: 0.05/0.10/0.25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GYROS: AB ON</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FDS MODE XB DATA RATE (MI)

<table>
<thead>
<tr>
<th>DSN COVERAGE</th>
<th>UTC:</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
<th>21</th>
<th>22</th>
<th>23</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>CR-ST</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>160(32)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EL-40</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>40(30)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

VOYAGER 2

<table>
<thead>
<tr>
<th>DSN COVERAGE</th>
<th>UTC:</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
<th>21</th>
<th>22</th>
<th>23</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDSL: 11AF</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CCSL: B118</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TWNC: ON</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SB: OFF</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>XB: LOW</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PYR: 0.05/0.10/0.25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GYROS: OFF</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FDS MODE XB DATA RATE (MI)

<table>
<thead>
<tr>
<th>DSN COVERAGE</th>
<th>UTC:</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
<th>21</th>
<th>22</th>
<th>23</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>CR-ST</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>160(32)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

VOYAGER COVERAGE

<table>
<thead>
<tr>
<th>DSN COVERAGE</th>
<th>UTC:</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
<th>21</th>
<th>22</th>
<th>23</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON CALL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VGR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTES

[1] S/C 31 - D/L AGC/SNR VARIATIONS EXPECTED DURING ASCAL (1602-1639)
<table>
<thead>
<tr>
<th>DSN COVERAGE</th>
<th>UTC</th>
<th>PST</th>
<th>CR-ST</th>
<th>HPTXR</th>
<th>CR-ST</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>23</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
</tbody>
</table>

**VOYAGER 1**
- RTLT: 24h 15m 24s
- FDSL: A045
- CCSL: ON
- TWNC: OFF
- SB: OFF
- XB: LOW
- FYR: .05/.10/.25
- GYROS: OFF

**FDS MODE**
- XB DATA RATE (MI)

**VOYAGER COVERAGE**
- CR-ST
- 160(32)

**HPTXR**
- 34 [o]
- 0815 - 1220
- 0300 - 45 [o]

**RTLT**
- 1200 RTLT=24h 15m 30s
- 0000 RTLT=24h 15m 34s

**NOTES**
- [1] S/C 32=GS-4B @ 0119 XB=2.8K(41) NOT RECOVERABLE
- [2] S/C 31=GS-4B @ 0226 XB=2.8K(41) NOT RECOVERABLE

---

**VOYAGER 2**
- RTLT: 19h 16m 14s
- FDSL: A045
- CCSL: ON
- TWNC: OFF
- SB: OFF
- XB: LOW
- FYR: .05/.10/.25
- GYROS: OFF

**FDS MODE**
- XB DATA RATE (MI)

**VOYAGER COVERAGE**
- CR-ST
- 160(32)

**HPTXR**
- 34 [o]
- 0815 - 1220
- 0300 - 45 [o]

**RTLT**
- 1200 RTLT=19h 16m 22s
- 0000 RTLT=19h 16m 30s

**NOTES**
- [1] S/C 32=GS-4B @ 0119 XB=2.8K(41) NOT RECOVERABLE
- [2] S/C 31=GS-4B @ 0226 XB=2.8K(41) NOT RECOVERABLE

---

**ISSUE DATE:** 11/27/02 - 09:25
### DSN COVERAGE

**ISSUE DATE:** WEDNESDAY DECEMBER 4, 2002

**VOYAGER 1**
- **FDSL:** 11AF
- **CCSL:** A045
- **TWNC:** ON
- **SB:** OFF  **XB:** LOW
- **PYR:** .05/.10/.25
- **GYROS:** OFF

**FDS MODE**
- **XB DATA RATE (MI):**
  - **Voyager 1:** CR-ST 160(32)
  - **Voyager 2:** CR-ST 160(32)

**HPTXR**
- **TLC (SHORT-FORM)**
  - **Voyager 1:** D/L 1753
- **HPTXR**
  - **DSN COVERAGE**
    - **RTLT:** 24h 15m 34s
    - **CCSL:** A045
    - **TWNC:** ON
    - **SB:** OFF  **XB:** LOW
    - **PYR:** .05/.10/.25
    - **GYROS:** OFF

**Voyager 2**
- **FDSL:** 11AF
- **CCSL:** B118
- **TWNC:** ON
- **SB:** OFF  **XB:** LOW
- **PYR:** .05/.10/.25
- **GYROS:** OFF

**FDS MODE**
- **XB DATA RATE (MI):**
  - **Voyager 2:** CR-ST 160(32)

**VOYAGER COVERAGE**

**NOTES**
### DSN COVERAGE

**ISSUE DATE:** FRIDAY DECEMBER 6, 2002 340-341

<table>
<thead>
<tr>
<th>UTC</th>
<th>08</th>
<th>09</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
<th>21</th>
<th>22</th>
<th>23</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>PST</td>
<td>01</td>
<td>02</td>
<td>03</td>
<td>04</td>
<td>05</td>
<td>06</td>
<td>07</td>
<td>08</td>
<td>09</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>VOYAGER 1</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FDSL:</strong> 11AF</td>
</tr>
<tr>
<td><strong>CCSL:</strong> A045</td>
</tr>
<tr>
<td><strong>TWNC:</strong> ON</td>
</tr>
<tr>
<td><strong>SB:</strong> OFF</td>
</tr>
<tr>
<td><strong>XB:</strong> LOW</td>
</tr>
<tr>
<td><strong>PYR:</strong> .05/.10/.25</td>
</tr>
<tr>
<td><strong>GYROS:</strong> OFF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>FDS MODE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>XB DATA RATE (MI):</strong></td>
</tr>
<tr>
<td><strong>CR-ST:</strong> 160(32)</td>
</tr>
</tbody>
</table>

**HPTXR 32:**

- 1440: DSN COVERAGE RTLT=24h 15m 54s
- 1235: CR-ST
- 2045: 0710
- 0410: 0524

**HPTXR 31:**

- 1815: 1200 RTLT=24h 15m 58s
- 2355: 0000 RTLT=24h 16m 2s
- 1609: SLEW->HELIO-16B

**RTLT:**

- 16h 15m 54s
- 19h 17m 14s

**VOYAGER 2**

<table>
<thead>
<tr>
<th><strong>FDSL:</strong> 11AF</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CCSL:</strong> B118</td>
</tr>
<tr>
<td><strong>TWNC:</strong> ON</td>
</tr>
<tr>
<td><strong>SB:</strong> OFF</td>
</tr>
<tr>
<td><strong>XB:</strong> LOW</td>
</tr>
<tr>
<td><strong>PYR:</strong> .05/.10/.25</td>
</tr>
<tr>
<td><strong>GYROS:</strong> OFF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>FDS MODE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>XB DATA RATE (MI):</strong></td>
</tr>
<tr>
<td><strong>CR-ST:</strong> 160(32)</td>
</tr>
</tbody>
</table>

**HPTXR 31:**

- 2115: 0000 RTLT=19h 17m 22s
- 2115: GYRO INIT
- 2125: GYRO FAULT TEST

**RTLT:**

- 19h 17m 6s
- 19h 17m 14s

**VOYAGER COVERAGE**

- **ON CALL**
- **VGR**

**NOTES**

- COMMAND MORATORIUM

**CR-ST**

- 160(32)

**VGR**

- ON CALL
### DSN COVERAGE

**ISSUE DATE:** SATURDAY DECEMBER 7, 2002

<table>
<thead>
<tr>
<th>PST:</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
<th>21</th>
<th>22</th>
<th>23</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>SATURDAY DECEMBER 7, 2002</td>
<td>341-342</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**UTC:**

| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RTLT : 24h 16m 2s | VOYAGER 1 |
| FDSL : 11AF | CCSSL : A045 |
| TWNC : ON | SB : OFF |
| XB : LOW | PB : .05/.10/.25 |
| GYROS : OFF | |
| FDS MODE | XB DATA RATE (MI) |
| 0826 | 0827 |

**VOYAGER 1**

**DSN COVERAGE**

<table>
<thead>
<tr>
<th>HPTXR</th>
</tr>
</thead>
<tbody>
<tr>
<td>31</td>
</tr>
</tbody>
</table>

**HPTXR**

<table>
<thead>
<tr>
<th>CR-5T</th>
</tr>
</thead>
<tbody>
<tr>
<td>160(32)</td>
</tr>
</tbody>
</table>

**CR-5T**

<table>
<thead>
<tr>
<th>1435</th>
<th>63 [D]</th>
<th>1810</th>
</tr>
</thead>
<tbody>
<tr>
<td>1750</td>
<td>25 [D]</td>
<td>0040</td>
</tr>
</tbody>
</table>

**CR-5T**

<table>
<thead>
<tr>
<th>0045</th>
<th>45 [D]</th>
</tr>
</thead>
</table>

**0045**

<table>
<thead>
<tr>
<th>1750</th>
</tr>
</thead>
</table>

**1750**

<table>
<thead>
<tr>
<th>25 [D]</th>
</tr>
</thead>
</table>

**25 [D]**

<table>
<thead>
<tr>
<th>0040</th>
</tr>
</thead>
</table>

**0040**

<table>
<thead>
<tr>
<th>1435</th>
</tr>
</thead>
</table>

**1435**

<table>
<thead>
<tr>
<th>63 [D]</th>
</tr>
</thead>
</table>

**63 [D]**

<table>
<thead>
<tr>
<th>1810</th>
</tr>
</thead>
</table>

**1810**

<table>
<thead>
<tr>
<th>1750</th>
</tr>
</thead>
</table>

**1750**

<table>
<thead>
<tr>
<th>25 [D]</th>
</tr>
</thead>
</table>

**25 [D]**

<table>
<thead>
<tr>
<th>0040</th>
</tr>
</thead>
</table>

**0040**

<table>
<thead>
<tr>
<th>1435</th>
</tr>
</thead>
</table>

**1435**

<table>
<thead>
<tr>
<th>63 [D]</th>
</tr>
</thead>
</table>

**63 [D]**

<table>
<thead>
<tr>
<th>1810</th>
</tr>
</thead>
</table>

**1810**

<table>
<thead>
<tr>
<th>1750</th>
</tr>
</thead>
</table>

**1750**

<table>
<thead>
<tr>
<th>25 [D]</th>
</tr>
</thead>
</table>

**25 [D]**

<table>
<thead>
<tr>
<th>0040</th>
</tr>
</thead>
</table>

**0040**

**NOTE**

1. S/C 31 = CR-5T @ 0227 XB = 160(32)
2. S/C 31 = GS-4B @ 0826 XB = 2.8K(41) NOT RECOVERABLE
3. S/C 31 = GS-4B @ 0826 XB = 2.8K(41) NOT RECOVERABLE
**DSN COVERAGE**

**ISSUE DATE:** MONDAY DECEMBER 9, 2002

**VOYAGER 1**
- **FDSL:** 11AF
- **CCSL:** A045
- **TWNC:** ON
- **SB:** OFF
- **XB:** LOW
- **Pyr:** .05 / .10 / .25
- **GYROS:** OFF

**FDS MODE**
- **XB DATA RATE (MI):**
  - **RTLT:** 24h 16m 20s
  - **CCSL:** A045
  - **TWNC:** ON
  - **SB:** OFF
  - **XM:** LOW
  - **PYR:** .05 / .10 / .25
  - **GYROS:** OFF

**VOYAGER COVERAGE**
- **NOTES:**
  - **ON CALL**
  - **VGR**
  - **ON CALL**

**UTC:**
- **8**
- **9**
- **10**
- **11**
- **12**
- **13**
- **14**
- **15**
- **16**
- **17**
- **18**
- **19**
- **20**
- **21**
- **22**
- **23**
- **0**
<table>
<thead>
<tr>
<th>Time</th>
<th>Action</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1200</td>
<td>RTLT=24h 16m 32s</td>
<td></td>
</tr>
<tr>
<td></td>
<td>↓ 1609 SLEW→HELIO-20B</td>
<td>0202 0203 PWS/RH</td>
</tr>
<tr>
<td></td>
<td>FDSL : 11AF</td>
<td></td>
</tr>
<tr>
<td></td>
<td>VOYAGER 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FCSL : A045</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWNC : ON</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SB : OFF  XB : LOW</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GYROS : OFF</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RTLT : 24h 16m 28s</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TLC (SHORT-FORM)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>D/L → 1740</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0203 GS-4B 0203</td>
<td></td>
</tr>
<tr>
<td>1430</td>
<td>63 [D]</td>
<td></td>
</tr>
<tr>
<td>1745</td>
<td>15 [D]</td>
<td></td>
</tr>
<tr>
<td>2040</td>
<td>25 [D]</td>
<td></td>
</tr>
<tr>
<td>0030</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0540</td>
<td>45 [D]</td>
<td></td>
</tr>
<tr>
<td>0202</td>
<td>GS-4B</td>
<td></td>
</tr>
<tr>
<td>0203</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0540</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**VOYAGER COVERAGE**

<table>
<thead>
<tr>
<th>Time</th>
<th>Action</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1200</td>
<td>RTLT=19h 18m 18s</td>
<td></td>
</tr>
<tr>
<td></td>
<td>↓ 2115 GYRO INIT</td>
<td>0056 0057 PWS/RH</td>
</tr>
<tr>
<td></td>
<td>FDSL : 11AF</td>
<td></td>
</tr>
<tr>
<td></td>
<td>VOYAGER 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FCSL : B118</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWNC : ON</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SB : OFF  XB : LOW</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GYROS : AC ON</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RTLT : 19h 18m 10s</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1609 SLEW→HELIO-20B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2115 GYRO INIT</td>
<td>0056 0057 PWS/RH</td>
</tr>
</tbody>
</table>

**NOTES**

[1] S/C 32=GS-4B @ 0056 XB=2.8K(41) NOT RECOVERABLE  
[2] S/C 31=GS-4B @ 0203 XB=2.8K(41) NOT RECOVERABLE
**DSN COVERAGE**

**ISSUE DATE:** 11/27/02 - 09:25

**WEDNESDAY**

**DECEMBER 11, 2002**

345-346

---

**UTC:**

| 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 |

**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 |

**VOYAGER 1**

- **FDSL:** 11AF
- **CCSL:** A045
- **TWNC:** ON
- **SB:** OFF  
  **XB:** LOW
- **PYR:** 0.05 / 10 / 25
- **GYROS:** OFF

---

**FDS MODE**

**XB DATA RATE (MI):**

- **RTLT:** 24h 16m 38s
- **CCSL:** A045
- **TWNC:** ON
- **SB:** OFF  
  **XB:** LOW
- **PYR:** 0.05 / 10 / 25
- **GYROS:** OFF

---

**DSN COVERAGE**

**HPTXR**

31

- **31**
  - **1425:** 65 [D] 1705
  - **1715:** 15 [D] 2150
  - **2205:** 14 [D] 0110

**HPTXR**

- **0530:** 45 [D] 0110

---

**VOYAGER 2**

- **FDSL:** 11AF
- **CCSL:** B118
- **TWNC:** ON
- **SB:** OFF  
  **XB:** LOW
- **PYR:** 0.05 / 10 / 25
- **GYROS:** AC ON

---

**FDS MODE**

**XB DATA RATE (MI):**

- **RTLT:** 19h 18m 26s
- **CCSL:** B118
- **TWNC:** ON
- **SB:** OFF  
  **XB:** LOW
- **PYR:** 0.05 / 10 / 25
- **GYROS:** AC ON

---

**VOYAGER COVERAGE**

- **S/C 31 = EH-12 @ 22:14 XB=1.2K(39)**

**NOTES**

- **S/C 31 = EH-12 @ 22:14 XB=1.2K(39)**

---

**COMMAND MORATORIUM**

<table>
<thead>
<tr>
<th>0000</th>
<th>0110</th>
<th>0530</th>
<th>CR-ST</th>
<th>EH-12</th>
<th>CR-ST</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000</td>
<td>0110</td>
<td>0530</td>
<td>160(32)</td>
<td>160(32)</td>
<td>160(32)</td>
</tr>
</tbody>
</table>

---

**VGR**

- **ON CALL**

---

**VGR**

- **ON CALL**

---

**VGR**

- **ON CALL**
ISSUE DATE: 11/27/02 - 09:25

SATURDAY
DECEMBER 14, 2002
348-349

RTLT: 24h 17m 0s
VOYAGER 1
FDSL: 11AF
CCSL: A045
TWNC: ON
SB: OFF XB: LOW
PYR: .05/.10/.25
GYROS: OFF

FDS MODE
XB DATA RATE (MI)

1200 RTLT=24h 17m 4s
0803 - 0804 PWS/RH
↓ 1509 SLEW->HELIO-17A

1010 ↓ ↓ 1037 TAPPOS

0803
GS-4B
1037

0804

DSN COVERAGE
HPTXR

1340 ↓ ↓ ↓ 63 [D] ↓ ↓ ↓ 1745
1805 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ 15 [D] ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ 0010
2350 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ 45 [D] ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ 0500

HPTXR

0510 ↓ ↓ ↓ 45 [D] ↓ ↓ ↓ 1040

RTLT: 19h 19m 12s
VOYAGER 2
FDSL: 11AF
CCSL: B118
TWNC: ON
SB: OFF XB: LOW
PYR: .05/.10/.25
GYROS: BC ON

FDS MODE
XB DATA RATE (MI)

1200 RTLT=19h 19m 20s
0000 RTLT=19h 19m 28s

CR-ST
160(32)

VOYAGER COVERAGE

NOTES
[1] S/C 31=CR-ST @ 2312 XB=160(32)
[2] S/C 31=GS-4B @ 0803 XB=2.8K(41) NOT RECOVERABLE
[3] S/C 31=GS-4B @ 0803 XB=2.8K(41) NOT RECOVERABLE

ON CALL
### DSN COVERAGE

**ISSUE DATE:** Sunday December 15, 2002

#### VOYAGER 1
- **FDSL:** 11AF
- **CCSL:** A045
- **TWNC:** ON
- **SB:** OFF  **XB:** LOW
- **PYR:** .05/.10/.25
- **GYROS:** OFF

#### VOYAGER 2
- **FDSL:** 11AF
- **CCSL:** B118
- **TWNC:** ON
- **SB:** OFF  **XB:** LOW
- **PYR:** .05/.10/.25
- **GYROS:** BC ON

<table>
<thead>
<tr>
<th>HPTXR</th>
<th>31</th>
<th>32</th>
<th>1415</th>
<th>1630</th>
<th>1650</th>
<th>25 [D]</th>
<th>0010</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTLT</td>
<td>24h 17m 8s</td>
<td>19h 19m 36s</td>
<td>19h 19m 28s</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PYR</td>
<td>.05/ .10/ .25</td>
<td>.05/ .10/ .25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GYROS</td>
<td>OFF</td>
<td>BC ON</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**NOTES**

- **RTLT:** 24h 17m 8s
- **CCSL:** A045
- **TWNC:** ON
- **SB:** OFF  **XB:** LOW
- **PYR:** .05/ .10/ .25
- **GYROS:** OFF

<table>
<thead>
<tr>
<th>CR-ST</th>
<th>160(32)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1200 RTLT=19h 19m 36s</td>
<td>0000 RTLT=19h 19m 42s</td>
</tr>
</tbody>
</table>

**ON CALL**