**VOYAGER**

**Space Flight Operations Schedule (SFOS)**

**Issue Date:** May 21, 2014

**For the Period:** 05/22/14 to 06/09/21 (14-142 – 14-160)

**DSN OPSCHIEF**

1. **230-102**

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*John.M.Grant@jpl.nasa.gov
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*rwilliam@airmail.fltops.jpl.nasa.gov

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UVS  *holburg@argus.lpl.arizona.edu
MAG  *u2mha@lepvax.gsfc.nasa.gov
PLS  *vgr@space.mit.edu
PWS  *wsk@space.physics.uiowa.edu

*Leonard.F.Burlaga@nasa.gov
*Donald.Gurnett@uiowa.edu

**FLIGHT TEAM**

1. **600-100**

Dodd, S.
Hall, J.
Howard, S.  (3)
Ludwig, R.  (2)
Matsumoto, S.
Medina
Peralta, F.
Weeks, T.
Wong, R.
Yang, L.
Zottarelli, L.
*odivers@san.rr.com

**OTHER**

*KMassey@jgld.gdscc.nasa.gov
*Belinda.Arroyo@jpl.nasa.gov
*DL-DSSN-MPSETA@dsn.nasa.gov

**FLIGHT TEAM**

1. **600-100**

Dodd, S.
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Medina
Peralta, F.
Weeks, T.
Wong, R.
Yang, L.
Zottarelli, L.
*odivers@san.rr.com

**LEGEND:**

\[ \begin{array}{ll}
\checkmark & \text{R/T Command (Last chance or Contingency)} \\
\downarrow & \text{R/T Command (Scheduled)} \\
* & \text{Result of R/T Command} \\
\text{n} = (\text{where } n = 1, 2, 3 ..) & \text{Special Note, see bottom of page} \\
A & \text{Arrayed station} \\
B & \text{BLF} \\
D & \text{Downlink only pass} \\
H & \text{High Power Transmitter} \\
R & \text{Array Reference Antenna} \\
T & \text{TLC Uplink} \\
U & \text{Uplink only pass} \\
[o] & \text{Ramp-through} \\
\end{array} \]

*Electronic Copy Only

(16 – Dist/N: Paper Copies)

09/08/10
### Thursday

#### May 22, 2014

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<th>Event</th>
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<tr>
<td>1256</td>
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#### Initial Conditions

- **S/C 31**
- **CCSL:** A091
- **FDSSL:** 11AF
- **TWNC:** ON
- **SB:** OFF
- **XB:** LOW
- **PYR:** .05/10/.25
- **GYROS:** AC ON

#### FDS Mode

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<th>XB Data Rate (MI)</th>
<th>CR-ST</th>
<th>EL-40</th>
<th>CR-ST</th>
<th>CR-ST</th>
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<td>31 DSN COVERAGE</td>
<td>160(32)</td>
<td>40(30)</td>
<td>160(32)</td>
<td>160(32)</td>
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<tr>
<td>32 DSN COVERAGE</td>
<td>1440</td>
<td>1450</td>
<td>43 [Ho4]</td>
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#### VGR Coverage

| VGR | 160(32) |

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### Additional Notes

1. RE-ENA BL X-LO BACKUP U/L TRACK
2. S/C 31=EL-40 @ 1330 XB=40(30)
3. S/C 31=CR-ST @ 1424 XB=160(32)
4. B164 BACKUP U/L SUPPORT
5. S/C 31=GS-4B @ 2120 XB=2.8K(41) NOT RECOVERABLE
<table>
<thead>
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<th>S/C 31</th>
<th>INITIAL CONDITIONS</th>
<th>1200 RTLT 35h 12m 58s</th>
<th>0000 RTLT 35h 13m 2s</th>
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<td>0019</td>
<td>0021 PWS/RH</td>
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| 32 DSN COVERAGE | | 1155 | 2220 |
| | | 45 [D] | |

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| VGR COVERAGE | | |

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### S/C 31 DSN COVERAGE

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### S/C 32 DSN COVERAGE

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### VGR COVERAGE

- VGR 160(32)

### NOTES

- ON CALL
### MONDAY
#### ISSUE DATE: 05/21/14  21:22

**MAY 26, 2014**

**146-147**

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#### S/C 31
**INITIAL CONDITIONS**
- RTLT: 35h 13m 8s
- CCSL: A091
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

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

**CR-5T**
- 160(32)

#### 31 DSN COVERAGE

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| 0210 | 63 [D] | 0530 |

#### 32 DSN COVERAGE

| 1625 | 43 [D] | 2240 |

### JPL HOLIDAY!

**NOTES**
- ON CALL

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**MAY 26** Page 5 of 10 **MAY 27**
<table>
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**S/C 31**

**INITIAL CONDITIONS**

- RTL: 35h 13m 16s
- CCSL: A091
- FDLS: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

**FDS MODE**

- CR-ST: 160(32)

**31 DSN COVERAGE**

- 0815 [D] 1405
- 1442 GS-4B 1443

**32 DSN COVERAGE**

- 0900 [B] 1935

**S/C 32**

**INITIAL CONDITIONS**

- RTL: 28h 55m 28s
- CCSL: B164
- FDLS: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

**FDS MODE**

- VGR: 160(32)

**VGR COVERAGE**

- ON CALL: VGR

**NOTES**

- [1] S/C 31=GS-4B @ 1442 XB=2.8K(41) NOT RECOVERABLE

**UTC:**

MAY 27
### Initial Conditions

**S/C 31**
- **RTC**: 35h 13m 22s
- **CCSL**: A091
- **FDSL**: 11AF
- **TWNC**: ON
- **SB**: OFF
- **XB**: LOW
- **PYR**: .05/.10/.25
- **GYROS**: OFF

**S/C 32**
- **RTC**: 28h 55m 26s
- **CCSL**: B164
- **FDSL**: 11AF
- **TWNC**: ON
- **SB**: OFF
- **XB**: LOW
- **PYR**: .05/.10/.25
- **GYROS**: OFF

### DSN Coverage

**31 DSN Coverage**
- 0755 - 25 [DA]
- 1205
- 1205
- 1200 - 14 [T] - 1315
- 10
- 40
- 60

**32 DSN Coverage**
- 1840 - 43 [D]
- 2240

### VGR Coverage

**VGR Coverage**
- 0755 - 25 [DA]
- 1205 - 43 [D]
- 2240

### Notes

- **CR-5T**
- **FDS Mode**
- **XB Data Rate (MI)**
- **VGR**
- **160 (32)**

**Date**
- **5/21/14 21:22**
- **0000 RTLT 35h 13m 26s**
- **1200 RTLT 35h 13m 26s**
- **0755 - 25 [DA]**
- **1205**
- **1205**
- **1200 - 14 [T] - 1315**
- **10**
- **40**
- **60**
- **1840 - 43 [D]**
- **2240**
- **1225**
- **TLC (SHORT-FORM)**

**Command Moratorium**
- **1534**
- **1225**
- **U/L**
### S/C 31

**INITIAL CONDITIONS**
- RTLT: 35h 13m 30s
- CCSL: A091
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

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

**31 DSN COVERAGE**

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

**32 DSN COVERAGE**

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

### S/C 32

**INITIAL CONDITIONS**
- RTLT: 28h 55m 26s
- CCSL: B164
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

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

**VGR COVERAGE**

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**VGR**
- 160(32)

**ON CALL**

**NOTES**

- [1] S/C 31=GS-4B @ 2056 XB=2.8K(41) NOT RECOVERABLE
ISSUE DATE: 05/21/14  21:22

<p>| SATURDAY | MAY 31, 2014 | 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 |
| S/C 31  | INITIAL CONDITIONS | 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 |
| RTLT: 35h 13m 46s | CCSL: A091 | FDS MODE | 1200 RTLT 35h 13m 50s | 1200 RTLT 28h 55m 24s | CR-ST | 2356 GS-4B 2357 |
| FDSL: 11AF | TWNC: ON | XB DATA RATE(MI) | 0000 RTLT 35h 13m 54s | 0000 RTLT 28h 55m 24s | CR-ST | 160(32) |
| SB: OFF | XB: LOW | 14[D] 1405 |
| PYR: .05/.10/.25 | GYROS: OFF | 15[D] 1545 43[D] 1855 |
| 31 DSN COVERAGE | 0535 |
| | | 0150 |
| | | 40 |
| | | 10 |
| | | 32 DSN COVERAGE |
| | | 1505 |
| | | 45[D] 1940 |
| | | 43[D] 2240 |
| | | 2000 |
| S/C 32 | INITIAL CONDITIONS | 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 |
| RTLT: 28h 55m 24s | CCSL: B164 | FDS MODE | 1200 RTLT 28h 55m 24s | 1200 RTLT 28h 55m 24s |
| FDSL: 11AF | TWNC: ON | XB DATA RATE(MI) | VGR | 2000 |
| SB: OFF | XB: LOW | 160(32) |
| PYR: .05/.10/.25/ | GYROS: AC ON |
| NOTES | ON CALL | [1] S/C 31=GS-4B @ 2356 XB=2.8K(41) NOT RECOVERABLE | [1] S/C 31=GS-4B @ 2356 XB=2.8K(41) NOT RECOVERABLE |</p>
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**FDS MODE**

- **XB DATA RATE (MI)**
  - 152-153
  - 160(32)

**31 DSN COVERAGE**

- 0800-24 [DA] 1205
- 0800-25 [DAR] 1205

**32 DSN COVERAGE**

- 0850-43 [o] 1520
- 1920-43 [D] 2240

**VGR COVERAGE**

- CR-5T
- 160(32)

**NOTES**

- ON CALL

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**ISSUE DATE:** 05/21/14

**SUNDAY**

JUNE 1, 2014

152-153

**UTC:**

- 789101112131415161718192021222301234567

---

**VGR COVERAGE**

- ON CALL

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**UTC:**

- JUN 01

---

**CR-5T**

- 160(32)

---

**VGR**

- 160(32)

---

**NOTES**

- ON CALL
### S/C 31
**INITIAL CONDITIONS**
- RTLT: 35h 14m 4s
- CCSL: A091
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

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### S/C 32
**INITIAL CONDITIONS**
- RTLT: 28h 55m 24s
- CCSL: B164
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: AC ON

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**NOTES**
ON CALL
### S/C 31
**INITIAL CONDITIONS**
- RTLT: 35h 14m 12s
- CCSL: A091
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

**FDS MODE**
- CR-ST: 160(32)

**XB DATA RATE (MI)**
- 160(32)

**31 DSN COVERAGE**

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**32 DSN COVERAGE**

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### S/C 32
**INITIAL CONDITIONS**
- RTLT: 28h 55m 24s
- CCSL: B164
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: AC ON

**FDS MODE**
- CR-ST: 160(32)

**XB DATA RATE (MI)**
- 160(32)

**VGR COVERAGE**
- ON CALL

**NOTES**

[1] S/C 31=GS-4B @ 1419 XB=2.8K(41) NOT RECOVERABLE
### ISSUE DATE: 05/21/14 21:22

**PDT:**
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- 16
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- 18
- 19
- 20
- 21
- 22
- 23
- 0

**UTC:**
- JUN 04
- JUN 05

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### WEDNESDAY

**JUNE 4, 2014**

**155-156**

**S/C 31**

**INITIAL CONDITIONS**
- RTLT: 35h 14m 22s
- CCSL: A091
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

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

**31 DSN COVERAGE**
- 3745 14 [D] 1350
- 14 [D] 1350
- 10 340
- 01 645

### 32 DSN COVERAGE

- 1110 45 [D] 2145
- 45 [D] 2145
- 40 2145

---

### VGR COVERAGE

**NOTES**

- ON CALL

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**UTC:**
- JUN 04
- JUN 05
## S/C 31 Initial Conditions
- RTLT: 35h 14m 30s
- CCSL: A091
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

### RTLT: 35h 14m 30s
| 1200 | CR-ST | 160(32) |
| 0000 | CR-ST | 160(32) |

### Xb Data Rate (Mi)
- 14 [D]
- 1255
- 14 [D]

### 31 DSN Coverage
| 0310 | 160(32) |
| 1255 | 160(32) |

### 32 DSN Coverage
| 0310 | 160(32) |
| 1240 | 160(32) |

## S/C 32 Initial Conditions
- RTLT: 28h 55m 24s
- CCSL: B164
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25/
- GYROS: AC ON

### RTLT: 28h 55m 24s
| 1200 | CR-ST |
| 0000 | CR-ST |

### Xb Data Rate (Mi)
- 14 [D]
- 1240
- 14 [D]

### Vgr Coverage
| 1235 | 160(32) |
| 1235 | 160(32) |

### Notes
- [1] S/C 31=GS-4B @ 2032 XB=2.8K(41) NOT RECOVERABLE
- COMMAND MORATORIUM

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ISSUE DATE: 05/21/14  21:22

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### NOTES

- [1] S/C 31=GS-4B @ 2332 XB=2.8K(41) NOT RECOVERABLE
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NOTES:

- ON CALL
### S/C 31
**INITIAL CONDITIONS**
- RTLT: 35h 15m 10s
- CCSL: A091
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

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

**31 DSN COVERAGE**
- 15 [DAR] 1100
- 25 [DA] 1100
- 40 1540 43 [D] 1640

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**NOTES**
- VGR 160(32)
- CR-5T

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### S/C 32
**INITIAL CONDITIONS**
- RTLT: 28h 55m 28s
- CCSL: B164
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: HI
- PYR: .05/.10/.25
- GYROS: BC ON

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

**32 DSN COVERAGE**
- 1315 45 [D] 2300

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**NOTES**
- ON CALL