**VOYAGER**  
Space Flight Operations Schedule (SFOS)

**Issue Date:** February 3, 2016  
**For the Period:** 02/04/16 to 02/22/16 (16-035 – 16-053)

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

DSOT (1) 230-102

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* mrobles@airmail.fltops.jpl.nasa.gov
* rwilliam@airmail.fltops.jpl.nasa.gov

**SCIENCE**

<table>
<thead>
<tr>
<th>CRS</th>
<th>*<a href="mailto:bryant@mail630.gsfc.nasa.gov">bryant@mail630.gsfc.nasa.gov</a></th>
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<tr>
<td>LECP</td>
<td>*<a href="mailto:r.decker@jhuapl.edu">r.decker@jhuapl.edu</a></td>
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<td>MAG</td>
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<td>*<a href="mailto:Donald-Gurnett@uiowa.edu">Donald-Gurnett@uiowa.edu</a></td>
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**FLIGHT TEAM (14) 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.
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**OTHER**

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* DL-DSSN-MPSETA@dsn.nasa.gov

**LEGEND:**

V = 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

*Electronic Copy Only
(16 – Dist/N: Paper Copies)

09/08/10
### S/C 31

**Initial Conditions**
- **RTC**: 1200 RTLT 37h 14m 24s
- **CCSL**: A098
- **FDSL**: 11AF
- **TWNC**: OFF
- **SB**: OFF
- **XB**: HI
- **PYR**: .05/.10/.25
- **GYROS**: BC ON

**Magrol**
- **1138**
  - **RAI**
  - **1138 GYROS STAY ON**
  - **1138 CRU**
  - **1148 GYRO FAULT TEST**
  - **1206 DISABLE BL MAGROLS - ECR 110285**

**FDS Mode**
- **XBr DATA RATE(MI)**
- **160(32)**

**31 DSN Coverage**
- **65 [DAR]**
- **63 [DA]**
- **1230**
- **1345**

**32 DSN Coverage**
- **43 [D]**
- **1000**

**Initial Conditions**
- **RTC**: 1200 RTLT 30h 46m 42s
- **CCSL**: B170
- **FDSL**: 11AF
- **TWNC**: OFF
- **SB**: OFF
- **XB**: LOW
- **PYR**: .05/.10/.25
- **GYROS**: OFF

**Magrol**
- **1138**
  - **RAI**
  - **1138 GYROS STAY ON**
  - **1138 CRU**
  - **1148 GYRO FAULT TEST**

**FDS Mode**
- **XBr DATA RATE(MI)**
- **160(32)**

### VGR Coverage

**VGR**

**Notes**

- [1] S/C 31 - D/L AGC VARIATIONS EXPECTED DURING MAGROL (1237-0614)

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**Issue Date**: Friday, February 5, 2016

**Caller**: 36-037

**S/C 31** - D/L AGC VARIATIONS EXPECTED DURING MAGROL (1237-0614)
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<td>[1] S/C 31=GS-4B @ 0608 XB=2.8K(41) NOT RECOVERABLE</td>
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**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: FEB 07  FEB 08
### S/C 31
**INITIAL CONDITIONS**
- RTLT: 37h 14m 16s
- CCSL: A098
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: HI
- PYR: .05/.10/.25
- GYROS: BC ON

**VGR COVERAGE**
- CR-5T

**FDS MODE**
- 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: 30h 46m 48s
- CCSL: B170
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

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

### NOTES
- [1] DSS-43 HP TXR ON >= 17:19
### S/C 31
**INITIAL CONDITIONS**
- RTLT: 37h 14m 16s
- CCSL: A098
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: HI
- PYR: .05/.10/.25
- GYROS: BC ON

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

**1200 RTLT 37h 14m 14s**

- TLC (LONG-FORM)

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

**2031 GS-4B 2032**

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

**31 DSN COVERAGE**

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### S/C 32
**INITIAL CONDITIONS**
- RTLT: 30h 46m 48s
- CCSL: B170
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

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

**1200 RTLT 30h 46m 50s**

- TLC (LONG-FORM)

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

**2031 GS-4B 2032**

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

**32 DSN COVERAGE**

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**VGR COVERAGE**

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**NOTES**

1. S/C 31=GS-4B @ 2031 XB=2.8K(41) NOT RECOVERABLE
2. S/C 32=EL-40 @ 0145 XB=40(30)
3. S/C 32=CR-5T @ 0352 XB=160(32)
### S/C 31
#### INITIAL CONDITIONS
- RTLT: 37h 14m 12s
- CCSS: A098
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: HI
- PYR: .05/.10/.25
- GYROS: BC ON

#### INITIAL CONDITIONS
- RTLT: 30h 46m 52s
- CCSS: B170
- FDSL: 11AF
- TWNC: OFF
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

### 31 DSN COVERAGE
- 1200 RTLT 37h 14m 10s
- 0000 RTLT 37h 14m 10s
- 1308 AAI
- 1318 LECP OBS
- 1800 D/L
- 1842
- 1812 RAI
- 1828 GYRO FAULT TEST
- 1837
- 1947 TAPPOS
- 1843 GYROS OFF
- 0531 YAW=.05
- 0541 PLAYBACK

### 32 DSN COVERAGE
- 1200 RTLT 30h 46m 52s
- 0000 RTLT 30h 46m 52s
- 1250
- 15 [DAR]
- 1955
- 0325
- 63 [DA]
- 0400
- 54 [DA]
- 0400
- 65 [DAR]
- 0500

### NOTES
- CR-5T
- PB-14
- 160(32)
- 1.4K(39)
- 0541
- 0531
- 0541

### VGR COVERAGE
- ON CALL
- VGR
- ON CALL
- VGR

### UTC:
- FEB 10
- FEB 11

---

**ISSUE DATE:** 02/08/16 09:59
### Issue Date:
02/08/16 09:59

#### Initial Conditions

**S/C 31**
- **RTLT**: 37h 14m 8s
- **CCSL**: A098
- **FDSL**: 11AF
- **TWNC**: ON
- **SB**: OFF
- **XB**: HI
- **PYR**: .05/.05/.25
- **GYROS**: OFF

**S/C 32**
- **RTLT**: 30h 46m 52s
- **CCSL**: B170
- **FDSL**: 11AF
- **TWNC**: ON
- **SB**: OFF
- **XB**: LOW
- **PYR**: .05/.10/.25
- **GYROS**: OFF

### DSN Coverage

#### 31 DSN Coverage

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#### 32 DSN Coverage

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### FDS Mode

#### XB Data Rate (MI)

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### VGR Coverage

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<td>[2] B171 BACKUP U/L TRACK HP TXR ON &gt;= 17:15</td>
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### Notes

- **PB-14**: 1.4K(39)
- **CR-5T**: 160(32)
- **0226**: 0235 TAPPOS
- **0215**: 0500

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**NOTES**

- **VGR**: ON CALL
- **FEB 11**: Page 8 of 10
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NOTES

ON CALL
### S/C 31
**INITIAL CONDITIONS**
- **RTLT:** 37h 13m 56s
- **CCSL:** A098
- **FDSL:** 11AF
- **TWNC:** ON
- **SB:** OFF
- **XB:** LOW
- **PYR:** .05/.10/.25
- **GYROS:** OFF

**FDS MODE**
- **XB DATA RATE(MI):** 160(32)

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**NOTES**
- JPL HOLIDAY!

---

### S/C 32
**INITIAL CONDITIONS**
- **RTLT:** 30h 46m 56s
- **CCSL:** B170
- **FDSL:** 11AF
- **TWNC:** ON
- **SB:** OFF
- **XB:** LOW
- **PYR:** .05/.10/.25
- **GYROS:** OFF

**FDS MODE**
- **XB DATA RATE(MI):** 160(32)

**32 DSN COVERAGE**
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**NOTES**
- JPL HOLIDAY!
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| NOTES | |
| [1] S/C 31=GS-4B @ 2007 XB=2.8K(41) NOT RECOVERABLE |

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<td>2007 PWS/RH</td>
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<td>1602 DUMMY (5 MIN BRACKETED 22:49)</td>
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<td>[1] S/C 31=GS-4B @ 2007 XB=2.8K(41) NOT RECOVERABLE</td>
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### Initial Conditions

**S/C 31**
- **RTLT:** 37h 13m 48s
- **CCSL:** A098
- **FDSL:** 11AF
- **TWNC:** ON
- **SB:** OFF
- **XB:** LOW
- **PYR:** .05/.10/.25
- **GYROS:** OFF

**S/C 32**
- **RTLT:** 30h 46m 56s
- **CCSL:** B170
- **FDSL:** 11AF
- **TWNC:** ON
- **SB:** OFF
- **XB:** LOW
- **PYR:** .05/.10/.25
- **GYROS:** OFF

### DSN Coverage

**31 DSN Coverage**
- 1200 RTLT 37h 13m 46s
- 0000 RTLT 37h 13m 44s
- 1510 24 [DA] 1645
- 1510 25 [DAR] 1645

**32 DSN Coverage**
- 1200 RTLT 30h 46m 56s
- 0000 RTLT 30h 46m 56s
- 1510 24 [DA] 1645
- 1510 25 [DAR] 1645

### VGR Coverage
- **ON CALL**
ISSUE DATE: 02/08/16 09:59

### S/C 31

**INITIAL CONDITIONS**
- RTLT: 37h 13m 44s
- CCSL: A098
- FDST: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

**FDS MODE**
- XB DATA RATE(MI): 160(32)

**31 DSN COVERAGE**

<table>
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<tr>
<th>Time</th>
<th>CR-5T</th>
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</thead>
<tbody>
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<td>1340</td>
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<tr>
<td>24 [DA]</td>
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<tr>
<td>1630</td>
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<td>1340</td>
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<tr>
<td>25 [DAR]</td>
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<td>1630</td>
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**NOTES**

1. S/C 31=GS-4B @ 0220 XB=2.8K(41) NOT RECOVERABLE

---

### S/C 32

**INITIAL CONDITIONS**
- RTLT: 30h 46m 56s
- CCSL: B170
- FDST: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

**FDS MODE**
- XB DATA RATE(MI): 160(32)

**32 DSN COVERAGE**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
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---

**ON CALL**

[1] S/C 31=GS-4B @ 0220 XB=2.8K(41) NOT RECOVERABLE
### Initial Conditions

**S/C 31**

- **RTLT:** 37h 13m 42s
- **CCSL:** A098
- **FDSL:** 11AF
- **TWNC:** ON
- **SB:** OFF
- **XB:** LOW
- **PYR:** .05/.10/.25
- **GYROS:** OFF

**S/C 32**

- **RTLT:** 30h 46m 56s
- **CCSL:** B170
- **FDSL:** 11AF
- **TWNC:** ON
- **SB:** OFF
- **XB:** LOW
- **PYR:** .05/.10/.25
- **GYROS:** OFF

### DSN Coverage

**31 DSN Coverage**

- **FDS Mode:** XB Data Rate (MI)
- **Time:** 1200 RTLT 37h 13m 40s
- **Coverage:** 0000 RTLT 37h 13m 38s

**32 DSN Coverage**

- **FDS Mode:** XB Data Rate (MI)
- **Time:** 1200 RTLT 30h 46m 56s
- **Coverage:** 0000 RTLT 30h 46m 56s

### Notes

- **CR-5T**
- **VGR Coverage**
- **On Call**

---

**FDS Mode**

- **XB Data Rate (MI)**
- **Time:** CR-5T
- **Coverage:** 0000 RTLT 37h 13m 38s
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<th>INITIAL CONDITIONS</th>
<th>FDS MODE</th>
<th>XB DATA RATE(MI)</th>
<th>CR-ST</th>
<th>160(32)</th>
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<td>GYROS: OFF</td>
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<td>S/C 32</td>
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<td>FDS MODE</td>
<td>XB DATA RATE(MI)</td>
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<td>160(32)</td>
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**NOTES**

1. S/C 31=GS-4B @ 0519 XB=2.8K(41) NOT RECOVERABLE

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**ISSUE DATE:** 02/08/16 09:59

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**SUN**
**DAY**
**FEBRUARY 21, 2016**
**052-053**

| **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 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
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**S/C 31**
**INITIAL CONDITIONS**

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**31 DSN COVERAGE**

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<td>1800</td>
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| 0140 | 63 | 40 | 0540 |

**32 DSN COVERAGE**

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**S/C 32**
**INITIAL CONDITIONS**

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**VGR COVERAGE**

**NOTES**

**ON CALL**

**CR-ST**

**FDS MODE**

**XB DATA RATE(MI)**

**VGR COVERAGE**

**NOTES**

**ON CALL**
### S/C 31
**Initial Conditions**
- **RTLT:** 37h 13m 30s
- **CCSL:** A098
- **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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### S/C 32
**Initial Conditions**
- **RTLT:** 30h 46m 56s
- **CCSL:** B170
- **FDSL:** 11AF
- **TWNC:**
- **SB:** OFF
- **XB:** LOW
- **PYR:** .05/.10/.25
- **GYROS:** OFF

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

### 32 DSN Coverage

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### VGR Coverage

### Notes
- **ON Call**

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