# VOYAGER Space Flight Operations Schedule (SFOS)

**Issue Date:** January 11, 2017  
**For the Period:** 01/12/17 to 01/30/17 (17-012 – 17-030)

## DSN OPSCHIEF (1) 230-102

### DSOT (1) 230-102

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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 (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.
  *odivers@san.rr.com*

## OTHER

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

### LEGEND:

- ▼ = R/T Command (Scheduled)
- ▼ = Result of R/T Command
- " = (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

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(16 – Dist/N: Paper Copies)

09/08/10
## S/C 31

### INITIAL CONDITIONS
- RTLT: 38h 14m 10s
- CCSL: A102A
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

### INITIAL CONDITIONS
- RTLT: 31h 37m 18s
- CCSL: B174
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

## FDS MODE

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## 31 DSN COVERAGE

| 1155 | 14 [D] | 1525 | 25 [DAR] | 1910 |
| 1525 | 26 [DA] | 1910 |
| 1437 |
| 0420 |

## 32 DSN COVERAGE

| 0825 | 43 [D] | 0635 | 34 [DA] |
| 0635 | 35 [DAR] | 0825 |

## S/C 32

### INITIAL CONDITIONS
- RTLT: 31h 37m 14s
- CCSL: B174
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

## FDS MODE

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## VGR COVERAGE

### ON CALL | VGR | ON CALL

### NOTES

[1] S/C 31=GS-4B @ 0426 XB=2.8K(41) NOT RECOVERABLE
### INITIAL CONDITIONS

#### S/C 31
- **PST:** 014-015
- **UTC:** JAN 14, 2017
- **FDS Mode:** CR-ST
- **XM Data Rate (MI):** 160(32)
- **FDS Mode:** CR-ST
- **XM Data Rate (MI):** 160(32)

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#### S/C 32
- **PST:** 014-015
- **UTC:** JAN 14, 2017
- **FDS Mode:** CR-ST
- **XM Data Rate (MI):** 160(32)

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### NOTES
- **[1] S/C 31=GS-4B @ 0726 XB=2.8K(41) NOT RECOVERABLE**
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**FDS MODE**

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

**Notes**

- On Call

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**ISSUE DATE:** MONDAY JANUARY 16, 2017

**NOTES:**

- **JPL HOLIDAY!**

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**Initial Conditions:**


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**DSN Coverage:**

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**VGR Coverage:**

- JPL HOLIDAY!
## TUESDAY
### JANUARY 17, 2017

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**S/C 31**

- **INITIAL CONDITIONS**
  - RTLT: 38h 14m 16s
  - CCSL: A102A
  - FDSL: 11AF
  - TWNC: ON
  - SB: OFF
  - XB: LOW
  - PYR: .05/.10/.25
  - GYROS: OFF

- **FDS MODE**
  - XB DATA RATE (MI)
    - 31

- **31 DSN COVERAGE**

- **32 DSN COVERAGE**

**S/C 32**

- **INITIAL CONDITIONS**
  - RTLT: 31h 38m 5s
  - CCSL: B174
  - FDSL: 11AF
  - TWNC: ON
  - SB: OFF
  - XB: LOW
  - PYR: .05/.10/.25
  - GYROS: OFF

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

- **NOTES**
  - [1] S/C 31=GS-4B @ 2149 XB=2.8K(41) NOT RECOVERABLE

**ON CALL**

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**ISSUE DATE:**

- TUESDAY, JANUARY 17, 2017
- 017-018

**ISSUE DATE:**

- TUESDAY, JANUARY 17, 2017
- 017-018
### ISSUE DATE: 01/19/17 07:10

#### S/C 31

**INITIAL CONDITIONS**
- **RTLT:** 38h 14m 16s
- **CCSL:** A102A
- **FDSL:** 11AF
- **TWNC:** ON
- **SB:** OFF
- **XB:** LOW
- **PYR:** .05/.10/.25
- **GYROS:** OFF

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

**NOTES**
- **ON CALL**

#### FDS MODE

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

#### 31 DSN COVERAGE

- **1130**
- **1545**

- **0355 - 0755**
- **63 [D]**

#### S/C 32

**INITIAL CONDITIONS**
- **RTLT:** 31h 38m 2s
- **CCSL:** B174
- **FDSL:** 11AF
- **TWNC:** ON
- **SB:** OFF
- **XB:** LOW
- **PYR:** .05/.10/.25
- **GYROS:** OFF

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

#### FDS MODE

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

#### 32 DSN COVERAGE

- **43 [D] 1010**
- **1720**
- **43 [B] 2120**

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**UTC:** JAN 18  |  JAN 19  
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S/C 31
INITIAL CONDITIONS
RTLT: 38h 14m 16s
CCSL: A102A
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF

FDS MODE
XB DATA RATE(MI)
160(32)

31 DSN COVERAGE

32 DSN COVERAGE

S/C 32
INITIAL CONDITIONS
RTLT: 31h 38m 18s
CCSL: B174
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25/
GYROS: OFF

FDS MODE
XB DATA RATE(MI)
160(32)

VGR COVERAGE

NOTES
[1] S/C 31=GS-4B @ 0702 XB=2.8K(41) NOT RECOVERABLE
ISSUE DATE: 01/19/17 07:10

SUNDAY
JANUARY 22, 2017
022-023

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

S/C 31
INITIAL CONDITIONS
RTLT: 38h 14m 14s
CCSL: A102A
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
1115  14 [D]  1420  1650
1400  24 [DA] 1650
1400  26 [DAR] 1650

0850  63 [D]  0340 - 0740  63 [D]

32 DSN COVERAGE
43 [D]  1055

1200 RTLT 31h 38m 28s
0000 RTLT 31h 38m 30s

S/C 32
INITIAL CONDITIONS
RTLT: 31h 38m 24s
CCSL: B174
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF

FDS MODE
XB DATA RATE(MI)

CR-5T
160(32)

VGR COVERAGE
NOTES

ON CALL

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

0000 RTLT 38h 14m 14s
0000 RTLT 31h 38m 28s
1200 RTLT 31h 38m 30s
0000 RTLT 38h 14m 14s
0000 RTLT 31h 38m 30s

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

**31 DSN COVERAGE**

| 1110 | 14 [D] |
| 1230 |

**32 DSN COVERAGE**

| 1200 | 1110 |
| 0430 |

**S/C 32 | INITIAL CONDITIONS**

| RTLT: 31h 38m 34s |
| CCSL: B174 |
| FDSL: 11AF |
| TWNC: ON |
| SB: OFF |
| XB: LOW |
| PYR: .05/.10/.25 |
| GYROS: OFF |

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

**VGR COVERAGE**

**NOTES**

*ON CALL*
**ISSUE DATE:** 01/19/17 07:10

**TUESDAY, JANUARY 24, 2017**
**S/C 31**
**INITIAL CONDITIONS**
- **RTLT:** 38h 14m 14s
- **CCSL:** A102A
- **FDSL:** 11AF
- **TWNC:** ON
- **SB:** OFF
- **XB:** LOW
- **PYR:** .05/.10/.25
- **GYROS:** OFF
- **ISSUE DATE:** TUESDAY, JANUARY 24, 2017
- **S/C 31 DSN COVERAGE**
- **FDSL:** 11AF
- **INITIAL CONDITIONS**
- **FDSL:** 11AF

**FDS MODE**

<table>
<thead>
<tr>
<th>CR-ST</th>
<th>EL-40</th>
<th>CR-ST</th>
<th>CR-ST</th>
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<tbody>
<tr>
<td>160(32)</td>
<td>40(30)</td>
<td>160(32)</td>
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**31 DSN COVERAGE**
- **1145**
- **14 [DA]**
- **1415**
- **26 [DAR]**
- **1915**

**32 DSN COVERAGE**
- **43 [D]**
- **1050**

**S/C 32**
**INITIAL CONDITIONS**
- **RTLT:** 31h 38m 38s
- **CCSL:** B174
- **FDSL:** 11AF
- **TWNC:** ON
- **SB:** OFF
- **XB:** LOW
- **PYR:** .05/.10/.25
- **GYROS:** OFF
- **ISSUE DATE:** TUESDAY, JANUARY 24, 2017
- **S/C 32 DSN COVERAGE**
- **FDSL:** 11AF
- **INITIAL CONDITIONS**
- **FDSL:** 11AF

**FDS MODE**

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<thead>
<tr>
<th>CR-ST</th>
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<tbody>
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<td>160(32)</td>
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**VGR COVERAGE**

<table>
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<tr>
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<th>VGR</th>
<th>ON CALL</th>
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**NOTES**
- [1] S/C 31=GS-4B @ 2125 XB=2.8K(41) NOT RECOVERABLE
<table>
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<tr>
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<tbody>
<tr>
<td>INITIAL CONDITIONS</td>
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<tr>
<td>RTLT: 38h 14m 12s</td>
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<td>CCSL: A102A</td>
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<td>FDSL: 11AF</td>
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<td>TWNC: ON</td>
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<td>SB: OFF</td>
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<td>PYR: .05/.10/.25</td>
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<p>| FDS MODE |</p>
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<thead>
<tr>
<th>XB DATA RATE(MI)</th>
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### 31 DSN COVERAGE

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<tbody>
<tr>
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<td>1240</td>
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<tr>
<td>1240</td>
<td>1445</td>
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<tr>
<td>0810</td>
<td>63 [D]</td>
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### 32 DSN COVERAGE

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<tr>
<th>Time</th>
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<td>1720</td>
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<tr>
<td>1720</td>
<td>36 [DAR]</td>
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<td>2120</td>
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<tbody>
<tr>
<td>INITIAL CONDITIONS</td>
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<td>FDSL: 11AF</td>
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<td>TWNC: ON</td>
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<td>SB: OFF</td>
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<tr>
<td>XB: LOW</td>
</tr>
<tr>
<td>PYR: .05/.10/.25</td>
</tr>
<tr>
<td>GYROS: OFF</td>
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<p>| FDS MODE |</p>
<table>
<thead>
<tr>
<th>XB DATA RATE(MI)</th>
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</thead>
<tbody>
<tr>
<td>CR-5T 160(32)</td>
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</tbody>
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**NOTES**

**CR-5T** 160(32)
### S/C 31
#### INITIAL CONDITIONS
- RTLT: 38h 14m 12s
- CCSL: A102A
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

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

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<td>0825</td>
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#### 31 DSN COVERAGE

#### 32 DSN COVERAGE

### S/C 32
#### INITIAL CONDITIONS
- RTLT: 31h 38m 48s
- CCSL: B174
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

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

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

### NOTES
- [1] S/C 31=GS-4B @ 0338 XB=2.8K(41) NOT RECOVERABLE

### Issue Date
- Thursday, January 26, 2017
### S/C 31
**INITIAL CONDITIONS**
- RTLT: 38h 14m 10s
- CCSL: A102A
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

#### DSN COVERAGE

<table>
<thead>
<tr>
<th>Time</th>
<th>CR-5T</th>
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#### XB DATA RATE (MI)
- TLC (SHORT-FORM) 1427

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<td>0402</td>
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### S/C 32
**INITIAL CONDITIONS**
- RTLT: 31h 38m 58s
- CCSL: B174
- FDSL: 11AF
- TWNC: ON
- SB: OFF
- XB: LOW
- PYR: .05/.10/.25
- GYROS: OFF

#### DSN COVERAGE

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<tr>
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<th>CR-5T</th>
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<tbody>
<tr>
<td>1200 RTLT 31h 38m 58s</td>
<td>0000 RTLT 31h 39m 0s</td>
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<table>
<thead>
<tr>
<th>Time</th>
<th>XB DATA RATE (MI)</th>
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</thead>
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<td>CR-5T</td>
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### NOTES
- [1] S/C 31=GS-4B @ 0638 XB=2.8K(41) NOT RECOVERABLE
- ON CALL
ISSUE DATE: 01/19/17 07:10

S/C 31
INITIAL CONDITIONS
RTLT: 38h 14m 8s
CCSL: A102A
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
1050 14 [D] 1535
0810 63 [D] 0310 - 0745

32 DSN COVERAGE
43 [D] 1030 1635 43 [D] 1940
0555 43 [D]

S/C 32
INITIAL CONDITIONS
RTLT: 31h 39m 0s
CCSL: B174
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
1200 RTLT 38h 14m 6s
0000 RTLT 38h 14m 6s

32 DSN COVERAGE
1200 RTLT 31h 39m 2s
0000 RTLT 31h 39m 4s

NOTES
ON CALL
**S/C 31**
INITIAL CONDITIONS
RTLTLT: 38h 14m 6s
CCSL: A102A
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF

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<tr>
<th>FDS MODE</th>
<th>XB DATA RATE(MI)</th>
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<tbody>
<tr>
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<tr>
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31 DSN COVERAGE

<table>
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<th>32 DSN COVERAGE</th>
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<tbody>
<tr>
<td>43 [D]</td>
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<tr>
<td>40</td>
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**S/C 32**
INITIAL CONDITIONS
RTLTLT: 31h 39m 6s
CCSL: B174
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF

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<tr>
<th>FDS MODE</th>
<th>XB DATA RATE(MI)</th>
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<tbody>
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<table>
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<th>NOTES</th>
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**ISSUE DATE:** MONDAY JANUARY 30, 2017

**PST:** 01/19/17 07:10

**UTC:** JAN 30