VOYAGER
Space Flight Operations Schedule (SFOS)

Issue Date: October 26, 2016

For the Period: 10/27/16 to 11/14/16 (16-301 – 16-319)

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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 = 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

ISSUE DATE: 11/02/16 13:38

THURSDAY
OCTOBER 27, 2016
301-302

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

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

S/C 31
INITIAL CONDITIONS

RTLT: 38h 0m 56s

CCSL: A101

FDSL: 11AF
TWNC: ON
SB: OFF
XB: HI
PYR: .05/.10/.25
GYROS: OFF

1200 RTLT 38h 1m 4s

0000 RTLT 38h 1m 14s

TLC (SHORT-FORM) D/L 1649

1739 TAPPOS 1954

0542 TAPPOS

FDS MODE: CR-5T

XB DATA RATE(MI): 160(32)

31 DSN COVERAGE

10

40

40

1535 63 [D] 2045

60

32 DSN COVERAGE

1225 43 [D] 1640

40

0535 45 [D]

40

S/C 32
INITIAL CONDITIONS

RTLT: 31h 16m 8s

CCSL: B173

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

1200 RTLT 31h 16m 20s

0000 RTLT 31h 16m 30s

FDS MODE: CR-5T

XB DATA RATE(MI): 160(32)

VGR COVERAGE: ON CALL

NOTES

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

UTC: OCT 27 | OCT 28

ISSUE DATE: 11/02/16 13:38

FRIDAY
OCTOBER 28, 2016
302-303

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

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

S/C 31 INITIAL CONDITIONS

RTLT: 38h 1m 14s
CCSL: A101
FDSL: 11AF
TWNC: ON
SB: OFF
XB: HI
PYR: .05/.10/.25
GYROS: OFF

1200 RTLT 38h 1m 24s
0000 RTLT 38h 1m 32s
1823 X-TWTA LOW POWER
1825 GYROS BC ON
1825 GYRO INIT
1827 X-TWTA HI POWER
1835 GYRO FAULT TEST
0759 TAPPOS
0844 0845 PWS/RH
0855 TAPPOS 1058
1925 1932 CCSTIMB FINE
0843 GS-4B 0845

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

31 DSN COVERAGE

10
40
40
1400 63 [D] 2040
60

32 DSN COVERAGE

45 [D] 0940
1325 43 [D] 1635
40
2305 35 [DAR] 0150
2305 45 [DA] 0150
40
0530 34 [o]

S/C 32 INITIAL CONDITIONS

RTLT: 31h 16m 30s
CCSL: B173
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25/
GYROS: OFF

1200 RTLT 31h 16m 42s
0000 RTLT 31h 16m 52s

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

VGR COVERAGE: **ON CALL** | VGR | ON CALL

NOTES

[1] S/C 31=GS-4B @ 0843 XB=2.8K(41) NOT RECOVERABLE

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

UTC: OCT 28 | OCT 29

ISSUE DATE: 11/02/16 13:38

SATURDAY
OCTOBER 29, 2016
303-304

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

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

S/C 31 INITIAL CONDITIONS

RTLT: 38h 1m 32s
CCSL: A101
FDSL: 11AF
TWNC: ON
SB: OFF
XB: HI
PYR: .05/.10/.25
GYROS: BC ON

1200 RTLT 38h 1m 42s

0000 RTLT 38h 1m 52s

FDS MODE: CR-5T

XB DATA RATE(MI): 160(32)

31 DSN COVERAGE

0210 — 14 [D] — 0400

10

40

40

0915 — 63 [D] — 1505

60

32 DSN COVERAGE

2300 — 45 [DA] — 0320

2300 — 36 [DAR] — 0320

34 [o] — 0935

0525 — 36 [D]

40

40

S/C 32 INITIAL CONDITIONS

RTLT: 31h 16m 52s
CCSL: B173
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25/
GYROS: OFF

1200 RTLT 31h 17m 4s

0000 RTLT 31h 17m 14s

FDS MODE: CR-5T

XB DATA RATE(MI): 160(32)

VGR COVERAGE: ON CALL

NOTES

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

UTC: OCT 29 | OCT 30

ISSUE DATE: 11/02/16 13:38

SUNDAY
OCTOBER 30, 2016
304-305

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

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

S/C 31 INITIAL CONDITIONS

RTLT: 38h 1m 52s
CCSL: A101
FDSL: 11AF
TWNC: ON
SB: OFF
XB: HI
PYR: .05/.10/.25
GYROS: BC ON

1200 RTLT 38h 2m 0s
0000 RTLT 38h 2m 10s
0842 TAPPOS 1045
1144 1145 PWS/RH
1155 TAPPOS 1345
1144 GS-4B 1145

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

31 DSN COVERAGE

2015 14 [D] 2315
10
40
0205 - 0620 35 [DAR]
0205 - 0620 45 [DA]
40
1915 63 [D] 2030
60

32 DSN COVERAGE

2255 35 [DA] 0035
2255 45 [DAR] 0035
36 [D] 0935
1320 43 [D] 1625
0530 36 [D]
40
40

S/C 32 INITIAL CONDITIONS

RTLT: 31h 17m 14s
CCSL: B173
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25/
GYROS: OFF

1200 RTLT 31h 17m 26s
0000 RTLT 31h 17m 36s

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

VGR COVERAGE: ON CALL

NOTES
[1] S/C 31=GS-4B @ 1144 XB=2.8K(41) NOT RECOVERABLE

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

UTC: OCT 30 | OCT 31

ISSUE DATE: 11/02/16 13:38

MONDAY
OCTOBER 31, 2016
305-306

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

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

S/C 31
INITIAL CONDITIONS

RTLT: 38h 2m 10s

CCSL: A101

FDSL: 11AF
TWNC: ON
SB: OFF
XB: HI
PYR: .05/.10/.25
GYROS: BC ON

1200 RTLT 38h 2m 18s

0000 RTLT 38h 2m 28s

FDS MODE: CR-5T

XB DATA RATE(MI): 160(32)

31 DSN COVERAGE

10

40

40

60

1915 63 [D] 2025

32 DSN COVERAGE

36 [D] 0930

1330 43 [B] 1620

40

40

0520 36 [D]

S/C 32
INITIAL CONDITIONS

RTLT: 31h 17m 36s

CCSL: B173

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

1200 RTLT 31h 17m 48s

0000 RTLT 31h 17m 58s

1452 DUMMY (5 MIN BRACKETED 22:10)

FDS MODE: CR-5T

XB DATA RATE(MI): 160(32)

VGR COVERAGE: ON CALL | VGR | ON CALL

NOTES

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

UTC: OCT 31 | NOV 01

ISSUE DATE: 11/02/16 13:38

TUESDAY
NOVEMBER 1, 2016
306-307

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

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

S/C 31 INITIAL CONDITIONS

RTLT: 38h 2m 28s
CCSL: A101
FDSL: 11AF
TWNC: ON
SB: OFF
XB: HI
PYR: .05/.10/.25
GYROS: BC ON

1200 RTLT 38h 2m 36s
0000 RTLT 38h 2m 46s
U/L 1620 — TLC (SHORT-FORM)
1941 ALL DB=.05
1957 AAI
1958 — 2031 ASCAL
0207 — 0208 PWS/RH
2033 RAI
2044 ROLL=.25
2045 GYRO FAULT TEST
1926 — 2038
0207 GS-4B 0208

FDS MODE	CR-5T	EL-40	CR-5T	CR-5T
XB DATA RATE(MI)	160(32)	40(30)	160(32)	160(32)

31 DSN COVERAGE

1925 — 24 [DAR] — 2115
1925 — 25 [DA] — 2115
40
10
40
1555 — 63 [T] — 2025
60

32 DSN COVERAGE

36 [D] — 0925
1355 — 35 [DA] — 1550
1355 — 45 [DAR] — 1550
40
40

S/C 32 INITIAL CONDITIONS

RTLT: 31h 17m 58s
CCSL: B173
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25/
GYROS: OFF

1200 RTLT 31h 18m 10s
0000 RTLT 31h 18m 20s

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

VGR COVERAGE	ON CALL	VGR	ON CALL

NOTES

[1] S/C 31=EL-40 @ 1926 XB=40(30)
[2] S/C 31=GS-4B @ 0207 XB=2.8K(41) NOT RECOVERABLE

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

UTC: NOV 01 | NOV 02

ISSUE DATE: 11/02/16 13:38

WEDNESDAY
NOVEMBER 2, 2016
307-308

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

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

S/C 31 INITIAL CONDITIONS

RTLT: 38h 2m 46s
CCSL: A101
FDSL: 11AF
TWNC: ON
SB: OFF
XB: HI
PYR: .05/.10/.25
GYROS: BC ON

1200 RTLT 38h 2m 54s
0000 RTLT 38h 3m 4s
TLC (SHORT-FORM)
D/L
0608
1643 AAI
1653 LECP OBS 1926
1939 RAI
1955 GYRO FAULT TEST

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

31 DSN COVERAGE

10
40
40
1620 63 [D] 2020
60

32 DSN COVERAGE

1215 43 [D] 1615
40
40

S/C 32 INITIAL CONDITIONS

RTLT: 31h 18m 20s
CCSL: B173
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25/
GYROS: OFF

1200 RTLT 31h 18m 32s
0000 RTLT 31h 18m 42s

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

VGR COVERAGE: ON CALL | VGR | ON CALL

NOTES

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

UTC: NOV 02 | NOV 03

ISSUE DATE: 11/02/16 13:38

THURSDAY
NOVEMBER 3, 2016
308-309

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

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

S/C 31
INITIAL CONDITIONS

RTLT: 38h 3m 4s

CCSL: A101

FDSL: 11AF
TWNC: ON
SB: OFF
XB: HI
PYR: .05/.10/.25
GYROS: BC ON

1200 RTLT 38h 3m 12s

0000 RTLT 38h 3m 20s

1948 AAI

1958 LECP OBS 2231

2244 RAI

2300 GYRO FAULT TEST

0519 - 0654 TAPPOS

FDS MODE: CR-5T

XB DATA RATE(MI): 160(32)

31 DSN COVERAGE

1935 14 [D] 2335

10

40

40

60

32 DSN COVERAGE

1005 43 [D] 1610

40

0505 34 [o]

40

S/C 32
INITIAL CONDITIONS

RTLT: 31h 18m 42s

CCSL: B173

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

1200 RTLT 31h 18m 54s

0000 RTLT 31h 19m 4s

FDS MODE: CR-5T

XB DATA RATE(MI): 160(32)

VGR COVERAGE: ON CALL | VGR | ON CALL

NOTES

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

UTC: NOV 03 | NOV 04

ISSUE DATE: 11/02/16 13:38

FRIDAY
NOVEMBER 4, 2016
309-310

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

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

S/C 31 INITIAL CONDITIONS

RTLT: 38h 3m 20s
CCSL: A101
FDSL: 11AF
TWNC: ON
SB: OFF
XB: HI
PYR: .05/.10/.25
GYROS: BC ON

1200 RTLT 38h 3m 30s
0000 RTLT 38h 3m 38s
1936 AAI
1939 MAGROL 0135
0127 RAI
0135 CRU
0135 GYROS OFF
0821 0822 PWS/RH
0832 TAPPOS 0954
0820 GS-4B 0822

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

31 DSN COVERAGE

1800 24 [DAR] 0140
1800 26 [DA] 0140
1915 14 [DA] 0225
40
10
40
60

32 DSN COVERAGE

34 [o] 0915
1345 34 [DA] 1540
1345 35 [DAR] 1540
40
40

S/C 32 INITIAL CONDITIONS

RTLT: 31h 19m 4s
CCSL: B173
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25/
GYROS: OFF

1200 RTLT 31h 19m 14s
0000 RTLT 31h 19m 26s

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

VGR COVERAGE: ON CALL | VGR | ON CALL

NOTES

[1] S/C 31=GS-4B @ 0820 XB=2.8K(41) NOT RECOVERABLE
[2] S/C 31=DL AGC & SNR VARIATIONS EXPECTED DURING MAGROL (1939-0135)

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

UTC: NOV 04 | NOV 05

ISSUE DATE: 11/02/16 13:38

SATURDAY
NOVEMBER 5, 2016
310-311

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

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

S/C 31 INITIAL CONDITIONS

RTLT: 38h 3m 38s
CCSL: A101
FDSL: 11AF
TWNC: ON
SB: OFF
XB: HI
PYR: .05/.10/.25
GYROS: OFF

1200 RTLT 38h 3m 46s

0000 RTLT 38h 3m 56s

FDS MODE: CR-5T

XB DATA RATE(MI): 160(32)

31 DSN COVERAGE

2215 — 14 [D] — 0215

10

40

40

60

32 DSN COVERAGE

0450 — 34 [o]

1005 — 43 [D] — 1555

40

40

S/C 32 INITIAL CONDITIONS

RTLT: 31h 19m 26s
CCSL: B173
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25/
GYROS: OFF

1200 RTLT 31h 19m 36s

0000 RTLT 31h 19m 46s

FDS MODE: CR-5T

XB DATA RATE(MI): 160(32)

VGR COVERAGE: ON CALL

NOTES

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

UTC: NOV 05 | NOV 06

ISSUE DATE: 11/02/16 13:38

SUNDAY
NOVEMBER 6, 2016
311-312

PDT: 0 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

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

S/C 31 INITIAL CONDITIONS

RTLT: 38h 3m 56s
CCSL: A101
FDSL: 11AF
TWNC: ON
SB: OFF
XB: HI
PYR: .05/.10/.25
GYROS: OFF

1200 RTLT 38h 4m 4s
0000 RTLT 38h 4m 12s
2045 DUMMY (10:49)
2051 EL-40 (10:55)
2112 ECR 114299 FPGYRO PART 1 (11:17)
2120 TLMPRG (11:24)
2141 CCSA SID MRO (11:45)
2151 CCSB SID MRO (11:56)
2212 CCSA SID MRO - REDUNDANT (12:16)
2223 CCSB SID MRO - REDUNDANT (12:27)
2233 CR-5T (12:37)
0819 TAPPOS 0941
1121 1122 PWS/RH
1133 1240 TAPPOS
1121 GS-4B 1122

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

31 DSN COVERAGE

1940 14 0330
10
40
40
60

32 DSN COVERAGE

34 [o] 0850
1335 34 [DAR] 1530
1335 36 [DA] 1530
40
40

S/C 32 INITIAL CONDITIONS

RTLT: 31h 19m 46s
CCSL: B173
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25/
GYROS: OFF

1200 RTLT 31h 19m 58s
0000 RTLT 31h 20m 8s

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

VGR COVERAGE: ON CALL | VGR | ON CALL

NOTES

[1] S/C 31=GS-4B @ 1121 XB=2.8K(41) NOT RECOVERABLE

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

UTC: NOV 06 | NOV 07

ISSUE DATE: 11/02/16 13:38

MONDAY
NOVEMBER 7, 2016
312-313

PST: 22 23 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

UTC: 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

S/C 31
INITIAL CONDITIONS

RTLT: 38h 4m 12s

CCSL: A101

FDSL: 11AF
TWNC: ON
SB: OFF
XB: HI
PYR: .05/.10/.25
GYROS: OFF

1200 RTLT 38h 4m 20s

0000 RTLT 38h 4m 28s

FDS MODE: CR-5T

XB DATA RATE(MI): 160(32)

31 DSN COVERAGE

10

40

40

0845 63 [D] 1245

60

32 DSN COVERAGE

1005 43 [D] 1555

40

0415 43 [H1]

40

S/C 32
INITIAL CONDITIONS

RTLT: 31h 20m 8s

CCSL: B173

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

1200 RTLT 31h 20m 18s

0000 RTLT 31h 20m 30s

EL-40 (11:48) 0427
SEQ FLAG CLR (12:08) 0448
CCSL B174 (12:22) 0501
ECR 114393 - FPGYRO UPD (12:46) 0525
TLMPRG (12:59) 0539
CCS SID MRO'S (13:34) 0614
CCS SID MRO'S - REDUNDANT (13:48) 0628
CR-5T (14:00) 0640

FDS MODE: CR-5T

XB DATA RATE(MI): 160(32)

VGR COVERAGE: ON CALL | VGR

NOTES

[1] DSS-43 HP TXR DRV ON >= 23:15

UTC: 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

UTC: NOV 07 | NOV 08

ISSUE DATE: 11/02/16 13:38

PST: 23 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

TUESDAY
NOVEMBER 8, 2016
313-314

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

S/C 31 INITIAL CONDITIONS

RTLT: 38h 4m 28s
CCSL: A101
FDSL: 11AF
TWNC: ON
SB: OFF
XB: HI
PYR: .05/.10/.25
GYROS: OFF

- 1200 RTLT 38h 4m 38s
- 0000 RTLT 38h 4m 46s
- U/L 0900 — TLC (SHORT-FORM)
- 1118 – 1124 ECR 114299 FPGYRO PART 1 IMPLEMENTATION
- 1125 – 1141 TLMPRG
- 1146 – 1152 CCSA SID MRO
- 0144 – 0145 PWS/RH
- 1157 – 1203 CCSB SID MRO
- 1217 – 1223 CCSA SID MRO - REDUNDANT
- 1228 – 1234 CCSB SID MRO - REDUNDANT
- EL-40 1056
- 1238 CR-5T
- 0144 GS-4B 0145

FDS MODE	CR-5T	EL-40	CR-5T	CR-5T
XB DATA RATE(MI)	160(32)	40(30)	160(32)	160(32)

31 DSN COVERAGE

- 10
- 40
- 40
- 0835 — 63 [T] — 1345
- 60

32 DSN COVERAGE

- 43 [H1] – 0815
- 40
- 40

S/C 32 INITIAL CONDITIONS

RTLT: 31h 20m 30s
CCSL: B173
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25/
GYROS: OFF

- 1200 RTLT 31h 20m 40s
- 0000 RTLT 31h 20m 50s
- 0714 CCSTIM F/C (14:34)

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

VGR COVERAGE	VGR	ON CALL	VGR	ON CALL

NOTES

[1] S/C 31=EL-40 @ 1056 XB=40(30)
[2] S/C 31=CR-5T @ 1238 XB=160(32)
[3] S/C 31=GS-4B @ 0144 XB=2.8K(41) NOT RECOVERABLE

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

UTC: NOV 08 | NOV 09

ISSUE DATE: 11/02/16 13:38

PST: 23 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

WEDNESDAY
NOVEMBER 9, 2016
314-315

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

S/C 31 INITIAL CONDITIONS

RTLT: 38h 4m 46s
CCSL: A101
FDSL: 11AF
TWNC: ON
SB: OFF
XB: HI
PYR: .05/.10/.25
GYROS: OFF

1200 RTLT 38h 4m 54s
TLC (SHORT-FORM)
0000 RTLT 38h 5m 2s
D/L 0032
1759 MAGCAL 2102
1759 PESCAL 2119
0001 TAPPOS 0152

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

31 DSN COVERAGE

1605 14 [D] 0235
10
40
40
0830 63 [D] 1105
60

32 DSN COVERAGE

1130 43 [D] 1545
40
40

S/C 32 INITIAL CONDITIONS

RTLT: 31h 20m 50s
CCSL: B173
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25/
GYROS: OFF

1200 RTLT 31h 21m 0s
1230 1237 B174 CHKSUM
1246 1258 ECR 114393 - FPGYRO UPD IMPLEMENTATION
1300 1316 TLMPRG
1335 1336 CCSA SID MRO
1342 1343 CCSB SID MRO
1349 1350 CCSA SID MRO - REDUNDANT
1356 1357 CCSB SID MRO - REDUNDANT
1435 1442 CCSTIM (FINE)
1535 1538 CCSTIM (COARSE)
EL-40 1147
1401 CR-5T
0000 RTLT 31h 21m 12s

FDS MODE: CR-5T | EL-40 | CR-5T
XB DATA RATE(MI): 160(32) | 40(30) | 160(32)

VGR COVERAGE: ON CALL

NOTES

[1] S/C 32=EL-40 @ 1147 XB=40(30)
[2] S/C 32=CR-5T @ 1401 XB=160(32)

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

UTC: NOV 09 | NOV 10

ISSUE DATE: 11/02/16 13:38

THURSDAY
NOVEMBER 10, 2016
315-316

PST: 23 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

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

S/C 31 INITIAL CONDITIONS

RTLT: 38h 5m 2s
CCSL: A101
FDSL: 11AF
TWNC: ON
SB: OFF
XB: HI
PYR: .05/.10/.25
GYROS: OFF

- 1200 RTLT 38h 5m 10s
- 0000 RTLT 38h 5m 18s
- 1756 YAW=.05
- 1806 PLAYBACK 2308
- 2318 YAW=.10
- 2320 X/B LOW POWER
- 2324 BAY 1 HTR ON

	1806		2308
FDS MODE	CR-5T	PB-14	CR-5T
XB DATA RATE(MI)	160(32)	1.4K(39)	160(32)

31 DSN COVERAGE

- 1725 — 14 [DA] — 0140
- 1725 — 15 [DA] — 2310
- 1725 — 25 [DAR] — 2310
- 40
- 10
- 40
- 60

32 DSN COVERAGE

- 1140 — 43 [D] — 1540
- 40
- 40

S/C 32 INITIAL CONDITIONS

RTLT: 31h 21m 12s
CCSL: B173
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25/
GYROS: OFF

- 1200 RTLT 31h 21m 22s
- 0000 RTLT 31h 21m 32s

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

VGR COVERAGE	ON CALL

NOTES

[1] S/C 31=PB-14 @ 1806 XB=1.4K(39)

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

UTC: NOV 10 | NOV 11

ISSUE DATE: 11/02/16 13:38

FRIDAY
NOVEMBER 11, 2016
316-317

PST: 23 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

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

S/C 31
INITIAL CONDITIONS

RTLT: 38h 5m 18s

CCSL: A101

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

1200 RTLT 38h 5m 26s

0000 RTLT 38h 5m 34s

1500 TAPPOS 1640

FDS MODE: CR-5T

XB DATA RATE(MI): 160(32)

31 DSN COVERAGE

2330 14 [D] 0135

10

40

40

1440 63 [D] 1945

60

32 DSN COVERAGE

0225 36 [DAR] 0525

0225 34 [DAo]

1140 43 [D] 1540

40

40

S/C 32
INITIAL CONDITIONS

RTLT: 31h 21m 32s

CCSL: B173

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

1200 RTLT 31h 21m 42s

0000 RTLT 31h 21m 54s

FDS MODE: CR-5T

XB DATA RATE(MI): 160(32)

VGR COVERAGE: ON CALL

NOTES

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

UTC: NOV 11 | NOV 12

ISSUE DATE: 11/02/16 13:38

SATURDAY
NOVEMBER 12, 2016
317-318

PST: 23 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

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

S/C 31
INITIAL CONDITIONS

RTLT: 38h 5m 34s

CCSL: A101

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

1200 RTLT 38h 5m 42s

0000 RTLT 38h 5m 50s

FDS MODE: CR-5T

XB DATA RATE(MI): 160(32)

31 DSN COVERAGE

1915 — 14 [D] — 2315

10

40

40

60

32 DSN COVERAGE

0740 34 [DAo]

1050 — 43 [D] — 1455

40

40

S/C 32
INITIAL CONDITIONS

RTLT: 31h 21m 54s

CCSL: B173

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

1200 RTLT 31h 22m 4s

0000 RTLT 31h 22m 14s

FDS MODE: CR-5T

XB DATA RATE(MI): 160(32)

VGR COVERAGE: ON CALL

NOTES

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

UTC: NOV 12 | NOV 13

ISSUE DATE: 11/02/16 13:38

SUNDAY
NOVEMBER 13, 2016
318-319

PST: 23 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

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

S/C 31
INITIAL CONDITIONS

RTLT: 38h 5m 50s

CCSL: A101

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

1200 RTLT 38h 5m 56s

0000 RTLT 38h 6m 4s

FDS MODE: CR-5T

XB DATA RATE(MI): 160(32)

31 DSN COVERAGE

0005 — 14 [D] — 0300
10
40
40
1425 — 63 [D] — 1935
60

32 DSN COVERAGE

1130 — 34 [DAR] — 1500
1130 — 35 [DA] — 1500
40

0010 — 34 [DA] — 0410
0010 — 36 [DAR] — 0410
40

S/C 32
INITIAL CONDITIONS

RTLT: 31h 22m 14s

CCSL: B173

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

1200 RTLT 31h 22m 24s

0000 RTLT 31h 22m 34s

FDS MODE: CR-5T

XB DATA RATE(MI): 160(32)

VGR COVERAGE: ON CALL

NOTES

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

UTC: NOV 13 | NOV 14

ISSUE DATE: 11/02/16 13:38

MONDAY
NOVEMBER 14, 2016
319-320

PST: 23 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

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

S/C 31
INITIAL CONDITIONS

RTLT: 38h 6m 4s

CCSL: A101

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

1200 RTLT 38h 6m 12s

FDS MODE: CR-5T

XB DATA RATE(MI): 160(32)

31 DSN COVERAGE

1525 — 14 [D] — 1755

40

0815 — 63 [D] — 1215

60

32 DSN COVERAGE

1245 — 43 [D] — 1525

40

S/C 32
INITIAL CONDITIONS

RTLT: 31h 22m 34s

CCSL: B173

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

1200 RTLT 31h 22m 44s

FDS MODE: CR-5T

XB DATA RATE(MI): 160(32)

VGR COVERAGE: ON CALL

NOTES

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

UTC: NOV 14 | NOV 15