**IBEX Goat Herder 16 Apr 18**

The Perigee contacts for Orbit# 403 were nominal for command/telemetry and the inertial maneuver successful.

The SSR pointers were reset (RESET\_SSR\_PNTRS,6500)

***Date*** ***Jday*** ***Time***  ***Station*** ***Razor#*** ***USNPR#*** ***PASS/FAIL***

**Monday, April 16, 2018** 106 0200 USHI01 Pass

***Controller*** ***CAR1*** ***CAR2*** ***CAR3*** ***Radius Earth*** ***S-Band Rate*** ***Station PWR***

SWesley 17 desc 2ksps 198 watts

***EBNO Values*** ***EBNO Values 3*** ***AGC Strength***

***EBNO Values 2*** ***AGC Strength 2***

***VC 0*** ***VC 0 Seq Err*** ***VC 1*** ***VC 1 Seq Err***  ***VC 2*** ***VC 2 Seq Err***

278 4 0 0 0 0

***VC 2 Write Pointer Start*** 26653 ***VC 2 Write Pointer End*** 26752

***VC 2 Read Pointer Start*** 3817 ***VC 2 Read Pointer End*** 3817

Orbit# 403 Perigee Tracking Contact

reset\_master\_timer.scr

@FMI\_SetDownlink (40k)

@FMI\_SetDownlink(2k)

***Date*** ***Jday*** ***Time***  ***Station*** ***Razor#*** ***USNPR#*** ***PASS/FAIL***

**Monday, April 16, 2018** 106 2130 USAK Pass

***Controller*** ***CAR1*** ***CAR2*** ***CAR3*** ***Radius Earth*** ***S-Band Rate*** ***Station PWR***

SWesley 12 asc 160ksps 200 watts

***EBNO Values*** ***EBNO Values 3*** ***AGC Strength***

***EBNO Values 2*** ***AGC Strength 2***

***VC 0*** ***VC 0 Seq Err*** ***VC 1*** ***VC 1 Seq Err***  ***VC 2*** ***VC 2 Seq Err***

2002 2 1311 0 24069 0

***VC 2 Write Pointer Start*** 27883 ***VC 2 Write Pointer End*** 6559

***VC 2 Read Pointer Start*** 3817 ***VC 2 Read Pointer End*** 6500

Orbit# 403 SSR\_Dump/Tracking Contact

@FMI\_SetDownlink(320k)

SSR\_Dump.scr(new,RESET\_PNTRS\_6500)

CAR# Upload Orbit# 405 ATS 1.IBEX\_2018\_115\_o0405a\_v001.scr(219-311)

ops\_set\_sc\_time.scr

stx,off

IBEX Orbit# 403 PERIGEE Target Vectors 16 Apr 18

J2000 Spin Axis

ECI X 0.916124

ECI Y 0.366576

ECI Z 0.162291

Precession Maneuver

MPS Diff 0.841 deg

\*MPS Diff should be < 1.5\*

Right Ascension - RA 21.808 deg

Declination - DEC 9.340 deg

IBEX Spin Axis vs. Sun Vector

IBEX Sun Angle -3.228 deg

0.29125000 ActNor.EstInrToBdy[0]

0.57795200 ActNor.EstInrToBdy[1]

0.57142100 ActNor.EstInrToBdy[2]

0.50460300 ActNor.EstInrToBdy[3]

1207950000.000 ActNor.EstTime

MPS Generated PERIGEE Target Vectors

MPS Cmd Vector X 0.912906000

MPS Cmd Vector Y 0.378101000

MPS Cmd Vector Z 0.153762000

CSS Angle TLM 4.03813

CSS Sun-Pointing Angle 8.07626

16 Apr 18 @0200

CSS Angle TLM 0.57743

CSS Sun-Pointing Angle 1.15486

16 Apr 18 @2130

Pre-Burn

Thruster 1 2496 16 Apr 18 @0200

Thruster 2 2416

Thruster 3 2832

Thruster 4 2912

Post-Burn

Thruster 1 2784 16 Apr 18 @2130

Thruster 2 2704

Thruster 3 3120

Thruster 4 3200

Number of Pulses

Thruster 1 288

Thruster 2 288

Thruster 3 288

Thruster 4 288

Thruster Pairs

Thruster 1 & 2 576

Thruster 3 & 4 576