**IBEX Goat Herder 4 Feb 18**

The Perigee Contacts for Orbit# 395 were nominal for command/telemetry and the inertial maneuver successful.

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

**Saturday, February 03, 2018** 034 1500 AUWA Pass

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

SWesley 957 15 desc 40ksps 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***

1327 3 1439 33 0 0

***VC 2 Write Pointer***  36153 ***VC 2 Write Pointer End*** 36203

***VC 2 Read Pointer***  6500 ***VC 2 Read Pointer End*** 6500

Orbit# 395 Perigee Tracking Contact

reset\_master\_timer.scr

CAR# 957 Upload Orbit# 397 ATS 1.IBEX\_2018\_044\_o0397a\_v001.scr (370-466)

@FTG\_DumpBAckorbit (from start,0,0,0,0)

stx,off

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

**Sunday, February 04, 2018** 035 0900 USHI02 Pass

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

SWesley 12 asc 160ksps 191 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***

1905 2 0 0 30661 0

***VC 2 Write Pointer***  37158 ***VC 2 Write Pointer End*** 37206

***VC 2 Read Pointer***  6500 ***VC 2 Read Pointer End*** 37161

Orbit# 395 SSR\_Dump/Tracking Contact

@FMI\_SetDownlink(320k)

SSR\_Dump.scr (new)

ops\_set\_sc\_time.scr

@ACT\_ResetTaskRawFailed (AC\_FDC)

IBEX Orbit# 395 PERIGEE Target Vectors

J2000 Spin Axis

ECI X 0.661943

ECI Y -0.689261

ECI Z -0.294537

Precession Maneuver

MPS Diff 0.863 deg

\*MPS Diff should be < 1.5\*

Right Ascension - RA 313.842 deg

Declination - DEC -17.130 deg

IBEX Spin Axis vs. Sun Vector

IBEX Sun Angle -4.031 deg

0.46795900 ActNor.EstInrToBdy[0]

0.65443300 ActNor.EstInrToBdy[1]

-0.10916100 ActNor.EstInrToBdy[2]

0.58379400 ActNor.EstInrToBdy[3]

1201770000.000 ActNor.EstTime

MPS Generated PERIGEE Target Vectors

MPS Cmd Vector X 0.667031000

MPS Cmd Vector Y -0.679725000

MPS Cmd Vector Z -0.305031000

CSS Angle TLM 3.32796

CSS Sun-Pointing Angle 6.65592

03 Feb 18 @1558

CSS Angle TLM 1.08498

CSS Sun-Pointing Angle 2.16996

04 Feb 18 @0900

Pre-Burn

Thruster 1 2560 03 Feb 18 @1558

Thruster 2 2432

Thruster 3 3264

Thruster 4 3392

Post-Burn

Thruster 1 2672 04 Feb 18 @0900

Thruster 2 2544

Thruster 3 3392

Thruster 4 3520

Number of Pulses

Thruster 1 112

Thruster 2 112

Thruster 3 128

Thruster 4 128

Thruster Pairs

Thruster 1 & 2 224

Thruster 3 & 4 256