**IBEX Goat Herder 18 Feb 18**

The Apogee contact for Orbit# 397 was nominal for command/telemetry and the inertial maneuver successful

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

**Sunday, February 18, 2018** 049 1800 USHI02

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

SWesley 43 desc 2ksps 181 watts

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

@1801=14.33-16.61db(2k) @1801=-117.98db(2k)

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

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

291 5 0 0 0 0

***VC 2 Write Pointer Start*** 22369 ***VC 2 Write Pointer End*** 22505

***VC 2 Read Pointer Start*** 2109 ***VC 2 Read Pointer End*** 2109

Orbit# 397 Apogee Tracking Contact

Blind\_acq.scr(2k)

@ECT\_SetRelay stx,off(2018/02:18:19:02:00,660)

@FMI\_SetDownlink(40k)

@FMI\_SetDownlink(2k)

@ECT\_SetRelay stx,off(2018/02:22:06:32:00,662)

@FCH\_DelTimedCMD(466,stx,off02:22:06:00:00)

@FCH\_DelTimedCMD(FMI\_SetDownlink(160k.02:21:15:43:02

CAR# 958 Upload Orbit# 398 ATS (IBEX\_2018\_052\_o0398a\_v001.scr(663-757)

IBEX Orbit# 397 APOGEE Target Vectors 18 Feb 18 @1800 UTCJ2000 Spin Axis

ECI X 0.859870

ECI Y -0.469455

ECI Z -0.200591

0.74084800 ActNor.EstInrToBdy[0]

0.22680500 ActNor.EstInrToBdy[1]

0.44191400 ActNor.EstInrToBdy[2]

0.45212500 ActNor.EstInrToBdy[3]

1203010000.000 ActNor.EstTime

Precession Maneuver

MPS Diff 0.762 deg

\*MPS Diff should be < 1.5\*

Right Ascension - RA 331.367 deg

Declination - DEC -11.572 deg

IBEX Spin Axis vs. Sun Vector

IBEX Sun Angle -0.704 deg

MPS Generated APOGEE Target Vectors

MPS Cmd Vector X 0.862500000

MPS Cmd Vector Y -0.460416000

MPS Cmd Vector Z -0.210028000

CSS Angle TLM 0.717916

CSS Sun-Pointing Angle 1.435832

12 Feb 18 @1500

CSS Angle TLM 0.696612

CSS Sun-Pointing Angle 1.393224

18 Feb 18 @1800

Pre-Burn

Thruster 1 3248 12 Feb 18 @1500

Thruster 2 3120

Thruster 3 3968

Thruster 4 4096

Post-Burn

Thruster 1 3808 18 Feb 18 @1800

Thruster 2 3680

Thruster 3 4560

Thruster 4 4688

Number of Pulses 4688

Thruster 1 560

Thruster 2 560

Thruster 3 592

Thruster 4 592

Thruster Pairs

Thruster 1 & 2 1120

Thruster 3 & 4 1184