**IBEX Goat Herder 17 Jan 18**

The Perigee contacts for Orbit# 393 were nominal for command/telemetry and the inertial maneuver successful.

We successfully loaded the Lo normal sweep table during the 01/16 13:00 - 14:00 Perigee contact, and will remain in this configuration for orbit 394 arc a and reload the Lo ISN sweep table on Sunday 01/21, 17:30 - 18:30 UTC.

The SSR was dumped via stored SSR\_Dump command in case of inclement weather.

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

**Tuesday, January 16, 2018** 016 1300 AUWA Pass

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

SWesley 946 954 17 desc 40ksps 160watts

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

@1300=4.57-6.10db(40k) @1300=-110.85db(40k)

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

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

1305 1 0 0 0 0

***VC 2 Write Pointer Start*** 21879 ***VC 2 Write Pointer End*** 22081

***VC 2 Read Pointer Start*** 58496 ***VC 2 Read Pointer End*** 58496

Orbit# 393 Perigee Tracking Contact

reset\_master\_timer.scr

CAR# 946 IBEX\_Lo ISN Sweep Table Upload

1.@CEU\_MODE(HVENG)

2.@CEU\_MODE(HVSTANDBY)

3.sweep\_table\_upload\_160922(table\_lo\_12345678\_Normal,quit)

4.@CEU\_MODE(HVENG)

5. @CEU\_MODE(HVSCI)

@CEU\_SSR\_DUMP\_NEW$TIME=2018/01:17:08:40:00 (830)

CAR# 954 Upload Orbit# 395 ATS 1.IBEX\_2018\_026\_o0395a\_v001.scr (831-916)

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

**Wednesday, January 17, 2018** 017 0830 USHI02 Pass

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

SWesley 11 asc 320ksps 193 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***

1912 1 0 0 30219 0

***VC 2 Write Pointer Start*** 23172 ***VC 2 Write Pointer End*** 23219

***VC 2 Read Pointer Start*** 58496 ***VC 2 Read Pointer End*** 23179

Orbit# 393 SSR\_Dump/Tracking Contact

IBEX Orbit# 393 PERIGEE Target Vectors

J2000 Spin Axis

ECI X 0.393429

ECI Y -0.844290

ECI Z -0.363853

Precession Maneuver

MPS Diff 0.743 deg

\*MPS Diff should be < 1.5\*

Right Ascension - RA 294.985 deg

Declination - DEC -21.337 deg

IBEX Spin Axis vs. Sun Vector

IBEX Sun Angle -3.963 deg

0.76445900 ActNor.EstInrToBdy[0]

0.31229600 ActNor.EstInrToBdy[1]

0.02719630 ActNor.EstInrToBdy[2]

0.56332400 ActNor.EstInrToBdy[3]

1200210000.000 ActNor.EstTime

MPS Generated PERIGEE Target Vectors

MPS Cmd Vector X 0.398892000

MPS Cmd Vector Y -0.837498000

MPS Cmd Vector Z -0.373474000

CSS Angle TLM 1.31105

CSS Sun-Pointing Angle 2.6221

12 Jan 18 @1830

CSS Angle TLM 1.00852

CSS Sun-Pointing Angle 2.01704

17 Jan 18 @0830

Pre-Burn

Thruster 1 1504 12 Jan 18 @1830

Thruster 2 1424

Thruster 3 1920

Thruster 4 2000

Post-Burn

Thruster 1 1616 17 Jan 18 @0830

Thruster 2 1536

Thruster 3 2064

Thruster 4 2144

Number of Pulses

Thruster 1 112

Thruster 2 112

Thruster 3 144

Thruster 4 144

Thruster Pairs

Thruster 1 & 2 224

Thruster 3 & 4 288