**IBEX Goat Herder 9 July 18**

The perigee contacts for Orbit# 412 were nominal for command/telemetry and the inertial maneuver successful

The SSR was dumped via APL-18 on 8 Jul 18 @1300 UTC

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

**Saturday, July 07, 2018** 188 1800 USHI01 Pass

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

SWesley 983 18 desc 64ksps 280 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***

1243 4 1439 32 0 0

***VC 2 Write Pointer Start*** ***VC 2 Write Pointer End*** 14655

***VC 2 Read Pointer Start*** ***VC 2 Read Pointer End*** 56362

Orbit# 412 Perigee Tracking Contact

1.reset\_master\_timer.scr

CAR# 983 Upload Orbit# 414 ATS 1.IBEX\_2018\_198\_o0414a\_v001.scr (297-388)

@FMI\_SetDownlink(40k)

@FTG\_Dump\_Backorbit (from start,0,0,0,0)

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

**Monday, July 09, 2018** 190 0030 USHI02 Pass

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

SWesley 16 asc 64ksps 225 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***

703 3 1417 31 0 0

***VC 2 Write Pointer Start*** 16919 ***VC 2 Write Pointer End*** 17007

***VC 2 Read Pointer Start*** 16137 ***VC 2 Read Pointer End*** 16137

Orbit# 412 Perigee Tracking Contact

@FMI\_SetDownlink (40k)

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

IBEX Orbit# 412 PERIGEE Target Vectors 9 July 18

J2000 Spin Axis

ECI X -0.235687

ECI Y 0.891115

ECI Z 0.387771

Precession Maneuver

MPS Diff 0.621 deg

\*MPS Diff should be < 1.5 \*

Right Ascension - RA 104.815 deg

Declination - DEC 22.816 deg

IBEX Spin Axis vs. Sun Vector

IBEX Sun Angle -3.138 deg

-0.25665600 ActNor.EstInrToBdy[0]

0.49014500 ActNor.EstInrToBdy[1]

0.81222200 ActNor.EstInrToBdy[2]

0.18488000 ActNor.EstInrToBdy[3]

1215130000.000 ActNor.EstTime

MPS Generated PERIGEE Target Vectors

MPS Cmd Vector X -0.238011000

MPS Cmd Vector Y 0.894762000

MPS Cmd Vector Z 0.377825000

CSS Angle TLM 4.48126

CSS Sun-Pointing Angle 8.96252

7 July 18 @1800

CSS Angle TLM 0.476423

CSS Sun-Pointing Angle 0.952846

9 July 18 @0030

Pre-Burn

Thruster 1 1136 7 July 18 @1800

Thruster 2 1104

Thruster 3 1168

Thruster 4 1200

Post-Burn

Thruster 1 1408 9 July 18 @0030

Thruster 2 1376

Thruster 3 1504

Thruster 4 1536

Number of Pulses

Thruster 1 272

Thruster 2 272

Thruster 3 336

Thruster 4 336

Thruster Pairs

Thruster 1 & 2 544

Thruster 3 & 4 672