**IBEX Goat Herder 10 Dec 16**

The Apogee contact for Orbit# 349 was intermittent for command/telemetry and the inertial maneuver successful.

The Apogee contact could only be used to verify the inertial maneuver and sun angle

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| --- | --- | --- | --- |
| J2000 | | **Spin Axis** | |
| ECI X | | **-0.262265** | |
| ECI Y | | **-0.884001** | |
| ECI Z | | **-0.386986** | |
|  | |  | |
| **Precession Maneuver** | | | |
| MPS Diff | **0.396** | | | | deg | |
|  | ***MPS Diff should be < 1.5*** | | | |  | |
| 0.81531700 | | | ActNor.EstInrToBdy[0] | | |
| -0.16956100 | | | ActNor.EstInrToBdy[1] | | |
| -0.04609800 | | | ActNor.EstInrToBdy[2] | | |
| 0.55170800 | | | ActNor.EstInrToBdy[3] | | |
|  | | |  | | |
| **1165360000.000** | | | ActNor.EstTime | | |

|  |  |  |
| --- | --- | --- |
| Right Ascension - RA | **253.475** | deg |
| Declination - DEC | **-22.767** | deg |

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| --- | --- | --- |
| **IBEX Spin Axis vs. Sun Vector** | | |
| IBEX Sun Angle | **-3.545** | deg |
|  |  |  |

|  |  |
| --- | --- |
| MPS Cmd Vector X | -0.261313000 |
| MPS Cmd Vector Y | -0.881500000 |
| MPS Cmd Vector Z | -0.393284000 |

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| CSS Angle TLM | 2.51863 | 3 Dec 16 @1930 |
| CSS Sun-Pointing Angle | 5.03726 |  |
|  |
| CSS Angle TLM | 0.8623 | 10 Dec 16 @0030 |
| CSS Sun-Pointing Angle | 1.7246 |  |
|  |
| **Pre-Burn** |  |  |
| Thruster 1 | 3200 | 3 Dec 16 @1930 |
| Thruster 2 | 3088 |  |
| Thruster 3 | 3392 |  |
| Thruster 4 | 3504 |  |
| **Post-Burn** |  |  |
| Thruster 1 | 3600 | 10 Dec 16 @0030 |
| Thruster 2 | 3488 |  |
| Thruster 3 | 3840 |  |
| Thruster 4 | 3952 |  |
| **Number of Pulses** |  |  |
| Thruster 1 | 400 |  |
| Thruster 2 | 400 |  |
| Thruster 3 | 448 |  |
| Thruster 4 | 448 |  |
| **Thruster Pairs** |  |  |
| Thruster 1 & 2 | 800 |  |
| Thruster 3 & 4 | 896 |  |