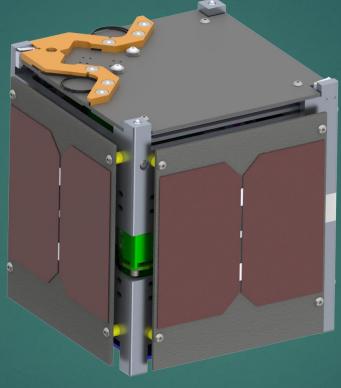
Damping And Vibrations Experiment

(DAVE)





Mission Results

What is DAVE?

- ▶ 1U CubeSat
- Particle Damping Experiment
- ▶ 3MP Camera
- New Antenna Restraint System
- Cal Poly and Northrup Grumman

Question: How does particle damping perform in the space environment?





Experimental Design

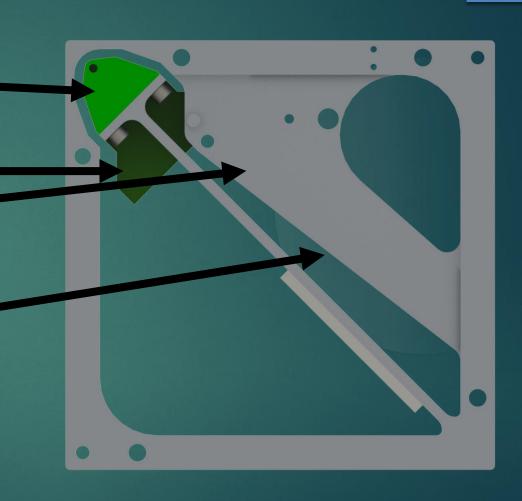
Hollow Tip Mass

Sensor

Cantilever Beam

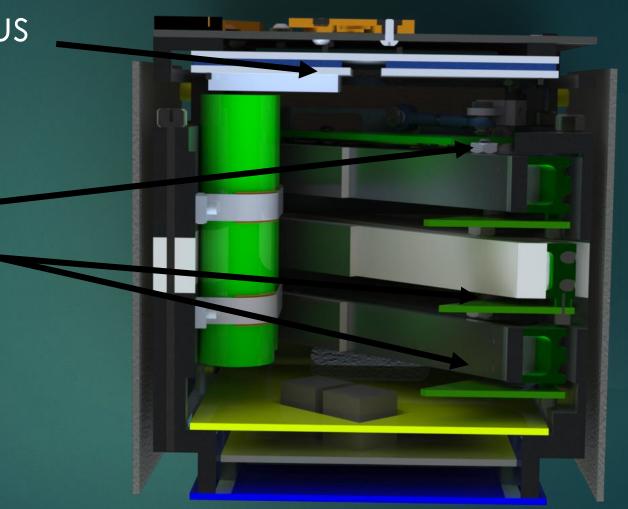
Piezoelectric Actuator





Standard Cal Poly Bus

Cantilever Beams





Launched September 15, 2018 on final Delta II out of Vandenberg, CA (ELaNa 18)

450 km Polar Orbit (93 degree inclination)

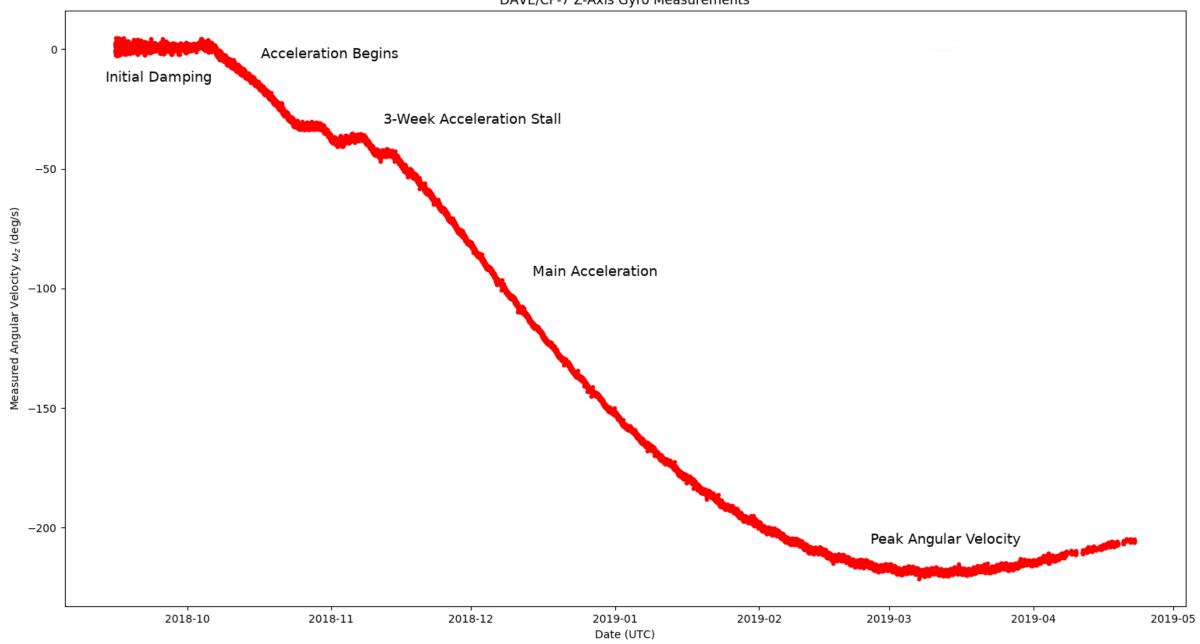
Uplink/Downlink from Cal Poly via UHF (437.15Mhz)

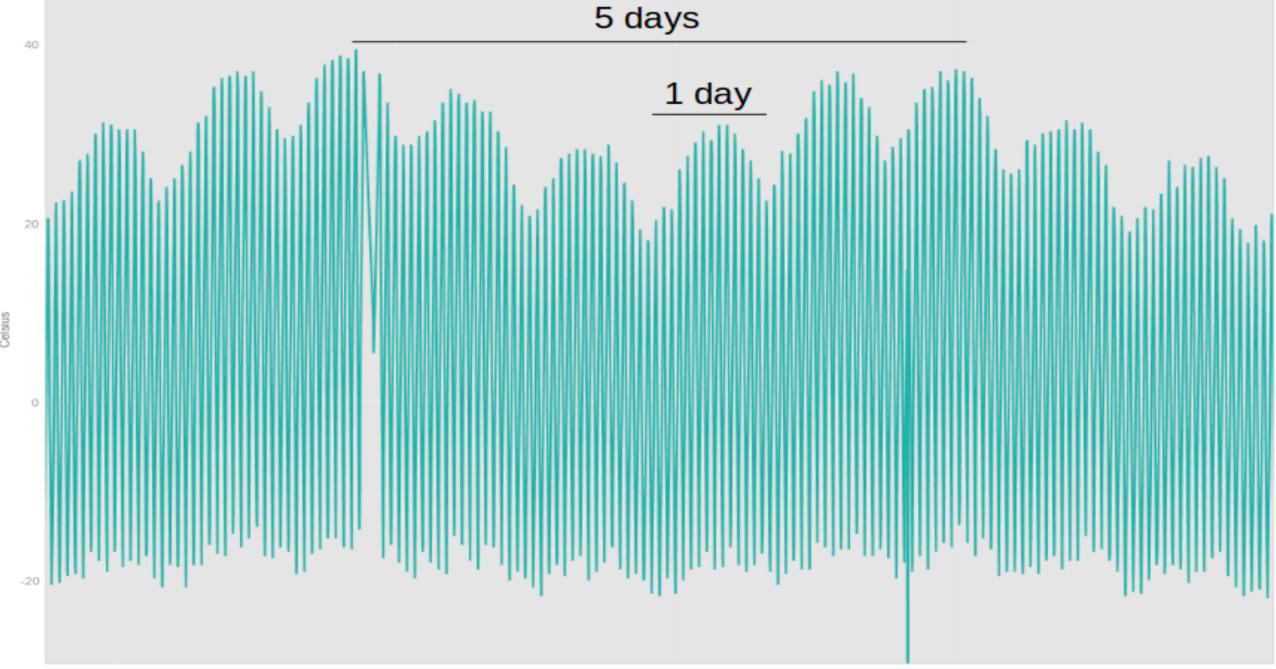




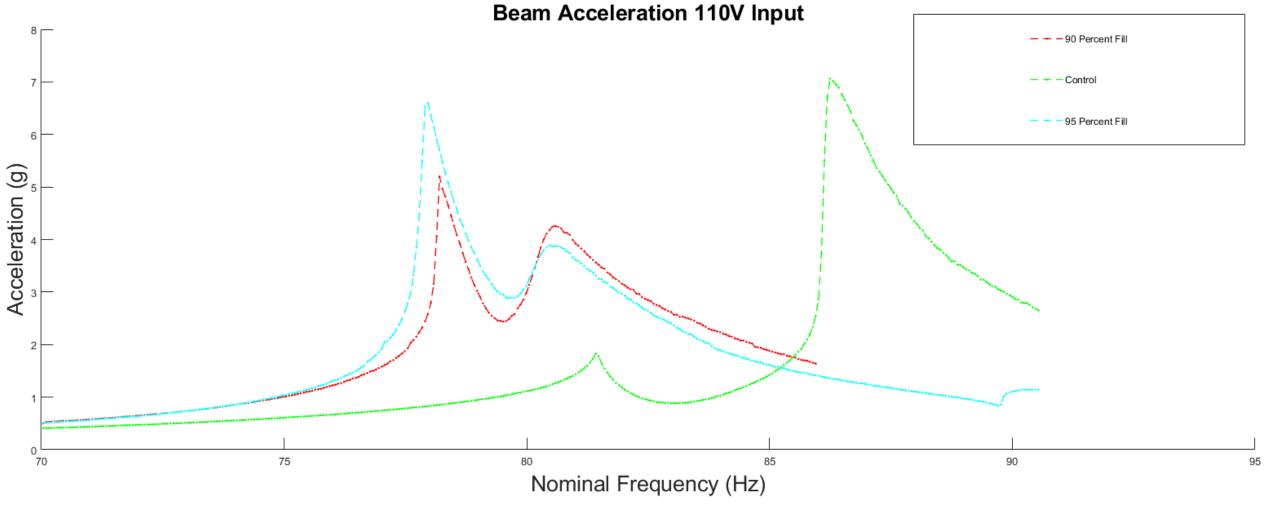


DAVE/CP-7 Z-Axis Gyro Measurements





Payload Data











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