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# Kentucky Space

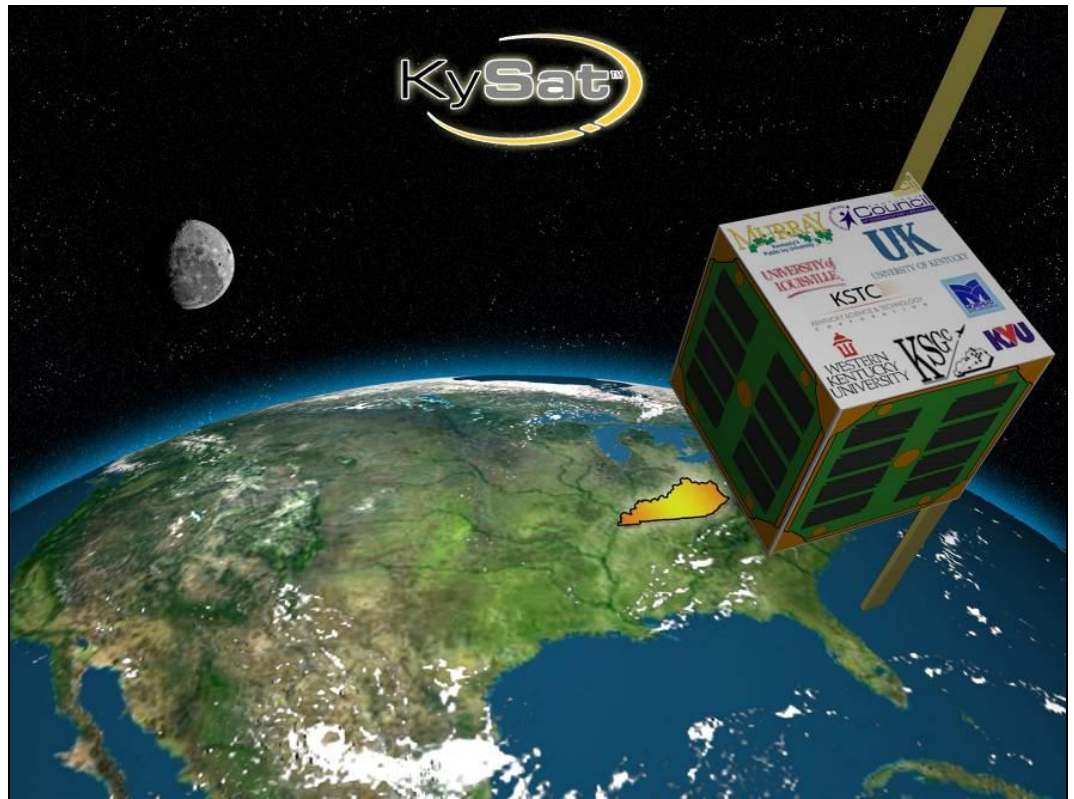
Daniel Erb  
Zach Jacobs

National Council of NASA Space  
Grant Directors' Spring Meeting  
March 5, 2010

# Kentucky Space Missions



- ❑ Near-Space
- ❑ Sub-Orbital
- ❑ Orbital
- ❑ ISS



# Near-Space



- BIGBLUE
  - High altitude tests of Mars airplane technology
  - All student run
- Balloon-1
  - Successful technology demonstration
  - Great Outreach
  - Low cost and low risk



# Sub-Orbital



- SOCEM
  - Sub-Orbital CubeSat Experimental Mission
  - First time CubeSats will be deployed into Sub-Orbital Space
  - Worked with NASA Wallops Flight Facility for testing and integration
  - To be launched out of Wallops on an experimental booster
- ADAMASat
  - Sub-Orbital payload from Kentucky Space for SOCEM
  - Testing flight hardware for KySat-1





# Orbital



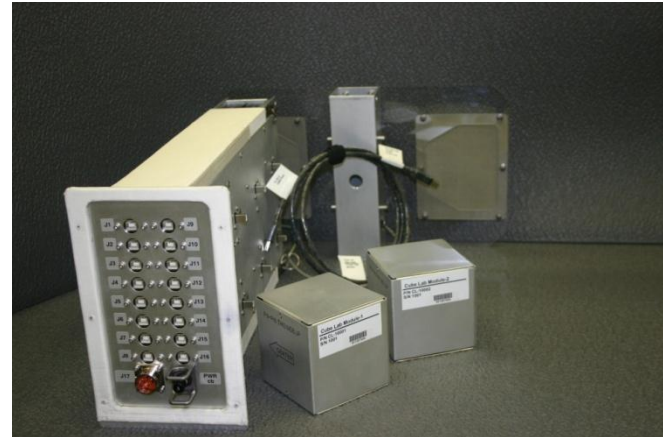
- ❑ KySat-1
- ❑ Mission focus on educational outreach
- ❑ Technologies developed to be used on future orbital satellites
- ❑ Part of NASA's ELaNa program
- ❑ Iterating with Kennedy Space Center Launch Services Provider
- ❑ To be launched November 22 with the NASA Glory mission



# ISS



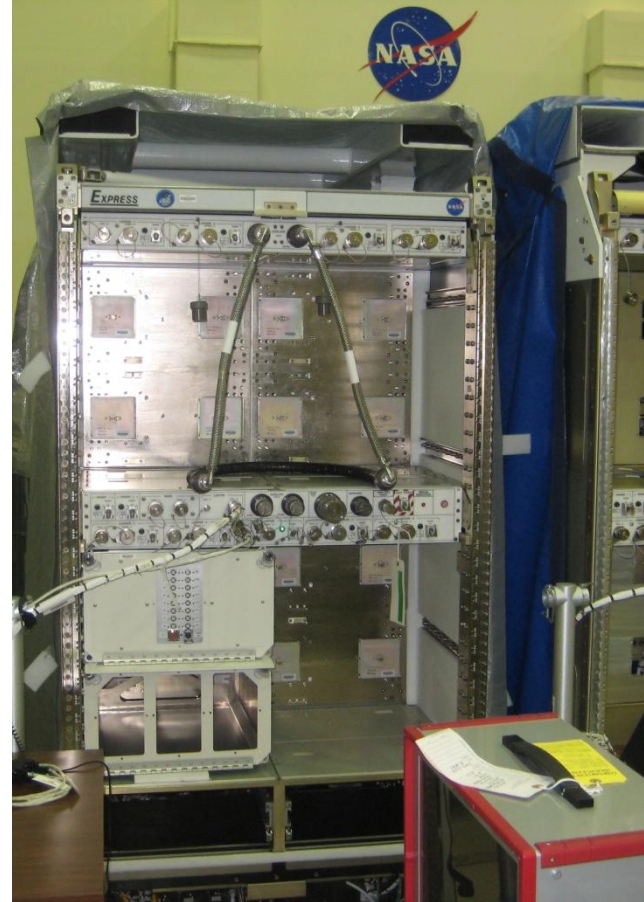
- ❑ NanoRacks and CubeLabs
- ❑ NanoRacks platform subdivides an Express Rack Locker allowing up to sixteen different experiments
- ❑ Platform provides conditioned power and data links to CubeLabs
- ❑ Three platforms will be installed into the Japanese Experimental Module



# NanoRacks and CubeLabs



- Worked with Marshall Space Flight Center to flight qualify platform in < 3 months
- Worked with Kennedy Space Center to integrate onto the shuttle for transport to the ISS
- First Platform and CubeLabs to be launched on STS-131 in April
- Presently working with Marshall for operational support





[www.kentuckyspace.com](http://www.kentuckyspace.com)

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