

Quick Thoughts on CubeSat Operations

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How we fly at the University of Michigan...

- Shared operations system between satellites with XML-configured command clients.
- Internet-based operations
- Global ground stations with a home grown network of HAMs.
- Software-defined ground stations

Questions we are working to answer.

- How much capacity does a ground station network have?
- How much capacity do satellites need?
- How do we maximize satellite operations (data downloaded, efficiency?)

Recommendations for moving forward...

- Think about ops NOW.
- Apply the “CubeSat Specification Methodology” to develop open protocols
- Plant a seed...enable a ground stations
 - Lots of low gain ones
 - A few, key, large dishes
- “*Build it and then will come*”