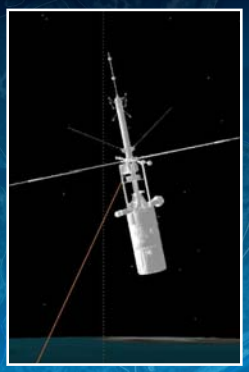
National Aeronautics and Space Administration

The Mission Planning Lab (MPL)



Applications

- Systems Engineering
- Earth Modeling
- Realistic Simulation
- Visually Rich Presentation
- Flight Platform Evaluation
- Flight Trajectory Formulation
- Range Asset Placement

Capabilities

- Vehicle Attitude
- Surface Sensor Coverage
- Magnetic Field Lines
- Staging Events
- Payload Deployment
- Atmospheric Layers
- GIS Terrain
- Strip Charts for Trending Analysis
- Post Flight Data Reports
- Three-Dimensional Graphics

Modeled Mission Specifications

- Vehicle Characteristics
- Ground Architecture
- Space Architecture

Tradeoff of Alternatives

- Visibility
- Feasibility
- Variability
- Mathematical Correctness

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visualizing critical concepts in advance