



SSDL Astrobiology Initiative

BioLaunch

High-Altitude Balloons and PicoSatellites Low-Cost Technologies Bridging the Gap for Scientific Research





Flight Hardware and Experiments



Spectrometer Flight Box, KATYSat, APRS/GPS Beacon





Flight Hardware and Experiments Spectrometer Flight Box

434 are





Flight Hardware and Experiments Spectrometer Flight Box



SpectralRadiometer **Radiation Exposed** Cuvettes AstroChemistry Experiment PC104 Computer WebCam GPS and Radio Beacons





Flight Hardware and Experiments







KatySat (use AA236 Slides ???) Satellite flight test Imagery, comm's, sensors APRS/GPS Beacon (use AA236 Slides ???) Real-time position reporting for tracking and recovery Flight Termination Unit User specified release from balloon















Picture of balloon release here



































































1

101

152

Landing Site

Flight Profile

Stanford Ground Station

Burst - 82,274 Santa-Clara ONASA Ames

85

Jara

San Jose

Fremont

84 Alameda

Lick Observatory - Launch Site

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End of the Flight







External Temperature









Spectrometer Data During Flight





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