2010-2011 TigreSAT Monthly Progress Report

EQUIS ADS 2010 PAYLOAD

No changes to the payload since it had passed all the test, requirements and integration necessary for LSU HASP platform has been performed. System has been powered on and fully tested to ensure that is working properly. Data from all the sensors was collected and stored into the SD card successfully.

TigreSAT 2011 PAYLOAD

During the month of July the TigreSat team was been working on details of the experiment such as ensuring calibration, data validation, thermal and vacuum test and adjusting to the timeline. Also the team has been working with the FRR, FLOP and Monthly report.

MCS Success

The Cubesat structure has been tested for robustness and for completeness

The ADS PC104 SMD has been test and it is fully functional and complete

The Gumstix has been programmed and mounted properly with a software switch

Having the previous just mention we have completed the Minimum Success Criteria, now what is required is to make sure is passes the Therma/Vac test at Columbia Scientific Balloon Facility (CSBF).

A backup board was made just in case anything occurs during the Thermal/Vac Test.

ISC Success

To complete the Intermediate Success Criteria it is required to have the solar panels ready and a PCB to record and test the characteristic of the Solar panel. This was successfully completed.

ISC setback

During the Thermal/Vac there was a shortage on the PCB for the solar panel causing it to get damage and due to time constrain and component order delays and also uncertainties of the board we shall not fly this on the 2011 payload.

To be Accomplished

- Thermal/Vac at CSBF
- Analysis of data of thermal test at the main campus and at CSBF (having more priority).
- Integration to the HASP platform.

ARIES Students and Tasks	
Students	**Task**
Javier Espinosa	ADS, ACC
Abdiany Rivera	Structure
Ana Espinal	Electrical
Jose Fermin	Solar Panel
Juan G. Colón	SDT, Telemetry
Mairim Nieves	SDT, ACS
Jorge Quinones	SDT, SD Card
Dr. Otoniel Nieves	Faculty
Prof. Diego Aponte	Faculty
Dr. Hien Vo	Faculty

Table 1 Student Member for TigreSAT