

# HASP Monthly Status Report - February 2015

North Carolina Infrasound

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## 1 Synopsis

- Continued to analyze HASP 2014 data
- Submitted response to reviews of HASP payload
- Selected sensors for quantifying gondola motion and wind speed

## 2 Activity Summary

The team submitted a detailed response to reviewers on February 20. The reel down system was removed from the proposal since the engineering and safety challenges outweighed the perceived scientific benefit. A suite of sensors consisting of accelerometers, magnetometers, and gyroscopes will quantify the high frequency motion of the gondola and the flight ladder. We have decided to put the anemometer on the flight ladder to avoid payload clearance issues in the thermal/vac chamber. Components for the acceleration/position/wind speed data collection devices have been gathered, but assembly has not yet begun.

## 3 Issues Encountered

Payload development is on hold pending full acceptance of our project.

## 4 Milestones Achieved

Submittal of response to reviewers document.

## 5 Team

The student team consists of Daniel C. Bowman and Patrick Gouge (University of North Carolina at Chapel Hill), C. Scott Johnson (North Carolina State University) and Jacob F. Anderson (Boise State University). Jonathan M. Lees (UNC Chapel Hill) and Rachana Gupta (North Carolina State University) serve as Faculty Advisors.