

HASP Monthly Status Report – November 2016

North Carolina Infrasound

29 November 2016

Student Leader: Kayla T. Seiffert (phone: 1-336-407-0602, email: seiffert@live.unc.edu)

Faculty Adviser: Jonathan M. Lees (phone: 1-919-962-1562, email: jonathan.lees@unc.edu)

Outside Adviser: Daniel C. Bowman (phone: 1-575-418-8555, email: danny.c.bowman@gmail.com)

1 Synopsis

- Working on Final Flight Report
- Preparing for AGU and contributing to infrasound text

2 Activity Summary

The team has continued data processing. Discussions have been mainly centred around differences between data collected on the flight ladder and data collected on the gondola. A possible reason for differences could be due to the different gains of the data loggers. This could potentially mean signals observed on the gondola are also observed on the flight ladder but are undetectable due to the higher level of noise. Further collaboration with the Bridgeport team has been tabled due to the complications with their payload during the Wednesday thermal-vacuum testing. Comparison between observed signals during thermal-vacuum testing and observed signals during the flight cannot be made as Bridgeport servos were not moving during the Wednesday thermal-vacuum test and our payloads were not in the Friday thermal-vacuum test.

A poster for the American Geophysical Union (AGU) Fall Meeting is being prepared. We plan to present during the Monday morning poster session. In addition, the team has been invited to write a chapter for the second edition of *Infrasound Monitoring for Atmospheric Studies*. All three of the team's HASP experiments will be discussed as part of a chapter on the current status of free-flying arrays.

3 Issues Encountered

Unable to confirm correlation between Bridgeport servos movement and signals found on gondola data.

4 Milestones Achieved

Progress is being made on the Final Flight Report. Outside presentations and reports are being constructed.

5 Team

| Name | Male/Female | Ethnicity | Role | Affiliation |
|--------------------|--------------------|------------------|---------------------|-------------------------|
| Jacob F. Anderson | Male | Caucasian | Student Team Member | Boise State University |
| Jordan W. Bishop | Male | Caucasian | Student Team Member | UNC-Chapel Hill |
| Daniel C. Bowman | Male | Caucasian | Outside Advisor | UNC/Sandia National Lab |
| Ethan C. Dinwiddie | Male | Caucasian | Student Team Member | UNC-Chapel Hill |
| Jonathan M. Lees | Male | Caucasian | Faculty Advisor | UNC-Chapel Hill |
| Rebecca L. Rodd | Female | Caucasian | Team Member | UNC-Chapel Hill |
| Timothy J. Ronan | Male | Caucasian | Student Team Member | UNC-Chapel Hill |
| Kayla T. Seiffert | Female | Caucasian | Student Leader | UNC-Chapel Hill |