

# HASP Monthly Status Report - September 2016

Arizona State University - HIDRA  
September 30, 2016

Student Leader: John McCulloch  
Faculty Advisor: Chris Groppi

## 1. Milestones

- HASP launch
- HIDRA return
- Preliminary data and flight analysis

## 2. Summary of Activities

HIDRA launch on HASP on September 1, 2016. HIDRA was then returned to ASU about one and half weeks later. The ASU team was able to confirm that HIDRA functioned properly during the flight and took over 1000 thermal and visual images as well as recorded the temperatures of the various components. In reviewing the housekeeping data from HASP, the HIDRA team was able to confirm that the power use by HIDRA was as expected and remained near constant throughout the flight. Once that data/images were downloaded from HIDRA and backed-up, the team has begun to process the images in support of the mission's scientific goals. The team also began on a preliminary drafting of the required mission report for HASP.

## 3. Issues Encountered

- It appears that the HIDRA program either didn't receive the GPS data properly or failed to record the GPS data as it was transmitted from HASP. This is not a huge issue as this information can be found elsewhere and linked up with the images based on the time stamp.

#### 4. Team Structure and Demographics:

Name	Role	Status	Education	Gender	Ethnicity	Email
John McCulloch	Project Manager/Systems Engineer	Active	Graduate Student	Male	Caucasian	jpmccull@asu.edu
Bradley Karas	Mechanical Engineer/Systems Engineer	Active	Graduate Student	Male	Caucasian	bkaras1@asu.edu
Jacob Trahan	Software Engineer	Active	Undergraduate	Male	Caucasian	jrtrahan@asu.edu
Nijiel Rocha	Support Engineer	Active	Post - Undergraduate	Male	Hispanic	nerocho@asu.edu
Akshay Vijay	Support Engineer	Active	Undergraduate	Male	Asian Indian	avijay4@asu.edu
Christopher Groppi	Faculty Advisor	Active	Professor	Male	Caucasian	cgroppi@asu.edu
<i>Andrew Thoeson</i>	<i>Graduate TA</i>	<i>Inactive</i>	<i>Graduate Student</i>	<i>Male</i>	<i>Caucasian</i>	
<i>Alex Mastrean</i>	<i>Testing/Quality Engineer</i>	<i>Inactive</i>	<i>Undergraduate</i>	<i>Male</i>	<i>Caucasian</i>	
<i>Srinidhi Ravi</i>	<i>Science Lead</i>	<i>Inactive</i>	<i>Undergraduate</i>	<i>Female</i>	<i>Asian Indian</i>	
<i>Cheyenne Howard</i>	<i>Science Team</i>	<i>Inactive</i>	<i>Undergraduate</i>	<i>Female</i>	<i>Caucasian</i>	--
<i>Jia Zhuang</i>	<i>Communications Engineer</i>	<i>Inactive</i>	<i>Undergraduate</i>	<i>Female</i>	<i>Asian</i>	--
<i>John Stone</i>	<i>Support Engineer</i>	<i>Inactive</i>	<i>Undergraduate</i>	<i>Male</i>	<i>Caucasian</i>	--
<i>Kelly Johnson</i>	<i>Thermal Engineer</i>	<i>Inactive</i>	<i>Undergraduate</i>	<i>Female</i>	<i>Caucasian</i>	--
<i>Nathan Wilson</i>	<i>Support Engineer</i>	<i>Inactive</i>	<i>Undergraduate</i>	<i>Male</i>	<i>Caucasian</i>	--
<i>Stone Hanlon</i>	<i>Power Engineer</i>	<i>Inactive</i>	<i>Undergraduate</i>	<i>Male</i>	<i>Caucasian</i>	--
<i>James Cornelison</i>	<i>Graduate TA</i>	<i>Inactive</i>	<i>Graduate Student</i>	<i>Male</i>	<i>Caucasian</i>	--
<i>Candace Ashley</i>	<i>Science Team</i>	<i>Inactive</i>	<i>Undergraduate Student</i>	<i>Female</i>	<i>Caucasian</i>	--
<i>Jekan Thangavelautham</i>	<i>Faculty Advisor</i>	<i>Inactive</i>	<i>Professor</i>	<i>Male</i>	<i>Asian Indian</i>	--
<i>Erik Asphaug</i>	<i>Faculty Advisor</i>	<i>Inactive</i>	<i>Professor</i>	<i>Male</i>	<i>Caucasian</i>	--