HASP Monthly Status Report - October 2016

Arizona State University - HIDRA
October 31, 2016

Student Leader: John McCulloch
Faculty Advisor: Chris Groppi

1. Milestones

- ➢ Image classification

- ➢ Visual-Thermal image correlation

- ➢ Thermal image analysis

2. Summary of Activities

The HIDRA team spent this month working on writing portions of the final report as well as analyzing the images retrieved from the HIDRA payload. This involved syncing up each visual image with its appropriate thermal counterpart and then using the visual image to determine the presence of each of the NLCD 92 categories in each image. Additionally, the team used visual data as well as the HASP flight data to determine which images were taken at float and therefore comprise the image set for study. The next month will be spent finishing the image analysis and writing up the final report for HASP.

3. Issues Encountered

- ➢ N/A

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	nerocha@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
Andrew Thoeson	*Graduate TA*	*Inactive*	*Graduate Student*	*Male*	*Caucasian*	
Alex Mastrean	*Testing/Quality Engineer*	*Inactive*	*Undergraduate*	*Male*	*Caucasian*	
Srinidhi Ravi	*Science Lead*	*Inactive*	*Undergraduate*	*Female*	*Asian Indian*	
Cheyenne Howard	*Science Team*	*Inactive*	*Undergraduate*	*Female*	*Caucasian*	--
Jia Zhuang	*Communications Engineer*	*Inactive*	*Undergraduate*	*Female*	*Asian*	--
John Stone	*Support Engineer*	*Inactive*	*Undergraduate*	*Male*	*Caucasian*	--
Kelly Johnson	*Thermal Engineer*	*Inactive*	*Undergraduate*	*Female*	*Caucasian*	--
Nathan Wilson	*Support Engineer*	*Inactive*	*Undergraduate*	*Male*	*Caucasian*	--
Stone Hanlon	*Power Engineer*	*Inactive*	*Undergraduate*	*Male*	*Caucasian*	--
James Cornelison	*Graduate TA*	*Inactive*	*Graduate Student*	*Male*	*Caucasian*	--
Candace Ashley	*Science Team*	*Inactive*	*Undergraduate Student*	*Female*	*Caucasian*	--
Jekan Thangavelautham	*Faculty Advisor*	*Inactive*	*Professor*	*Male*	*Asian Indian*	--
Erik Asphaug	*Faculty Advisor*	*Inactive*	*Professor*	*Male*	*Caucasian*	--