



## July 31, 2018 Payload 3 Daily Flight Report



**Date:** 2018-07-31

**Flight Campaign ID:** 2018\_P3C1

**Airport, FBO ID, City:** Boulder Municipal Airport (KBDU) - Boulder, CO

**Domain:** 13

**Sites Flown:** NIWO (Niwot Ridge Mountain Research Station)

**Days left in Domain:** 17

**Report Author:** Cameron Chapman

**Flight Crew:** Cameron Chapman, Robb Walker

**Ground/GPS:** Matt Devoe

**Pilots:** Stephen Brawders, Gina Moore

**Additional Personnel:**

**GPS Instruments:** 03 - FBO\_KBDU, 05 - NIWO

**Flight Hours:** 02:50

**Hours until maintenance:** 18.02

### Summary

Despite strong winds aloft, the flight crew rode the mountain waves and completed 22 lines under nominal sky conditions before cumulus clouds began to form over the site.

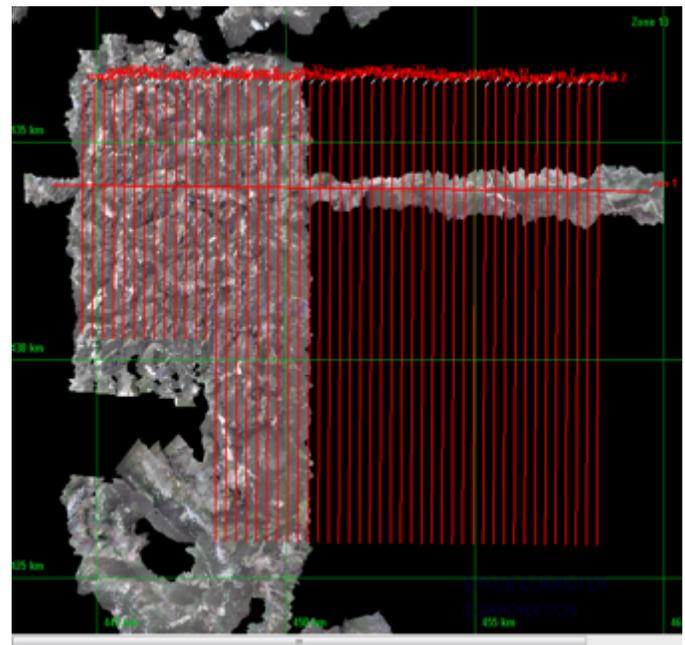
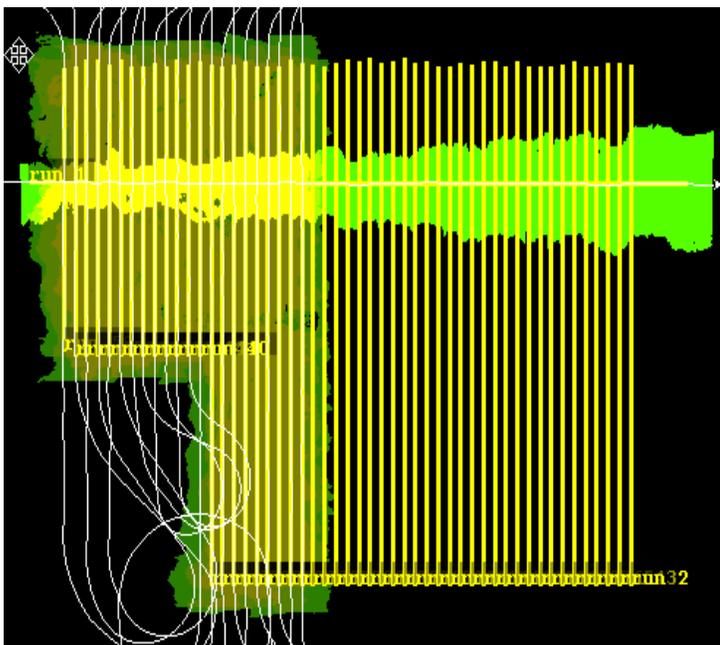
### Concerns

Mysterious Chiller Pump Fail Error. Cycling power on UPS1500 seemingly resolved the issue. We will continue to monitor.

### Comments

- Crew completed 22 lines of NIWO under clear skies
- Matt Set up and recovered GPS 5 which was used for NIWO collections
- Currently extracting the MOAB data in the HTK
- Abe Morrison will take some much need time off. Good work Abe!

### Flight Screenshots



## Pictures



Picture acquired while flying Niwot Ridge Mountain Research Station (NIWO)



Picture acquired while flying Niwot Ridge Mountain Research Station (NIWO)

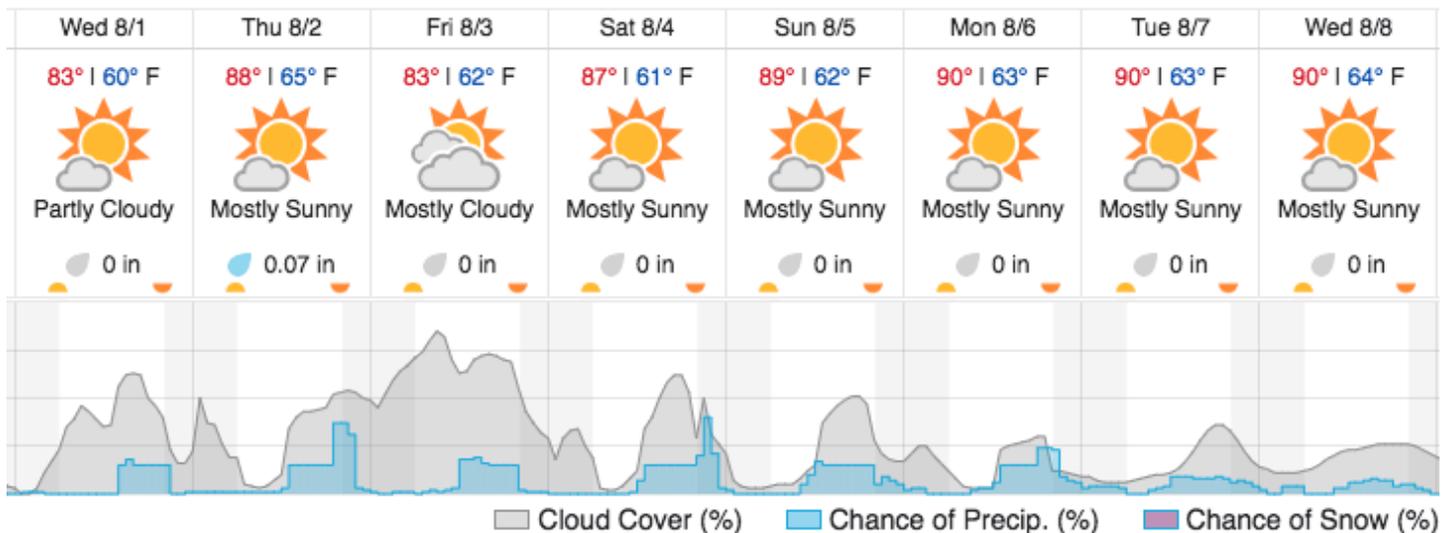
## Daily Coverage

D13 NIWO	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓	✓	✓	NLC
	31				✓	✓	✓	NLC
	32				✓	✓	✓	NLC
	33				✓	✓	✓	NLC
	34				✓	✓	✓	NLC
	35				✓	✓	✓	NLC
	36				✓	✓	✓	NLC
	37				✓	✓	✓	NLC
	38				✓	✓	✓	NLC
	39				✓	✓	✓	NLC
	40				✓	✓	✓	NLC
	41				✓	✓	✓	NLC
	42				✓	✓	✓	NLC
	43				✓	✓	✓	NLC
	44				✓	✓	✓	NLC
	45				✓	✓	✓	NLC
	46				✓	✓	✓	NLC
	47				✓	✓	✓	NLC
	48				✓	✓	✓	NLC
	49				✓	✓	✓	NLC
	50				✓	✓	✓	NLC
	51				✓	✓	✓	NLC
	52				✓	✓	✓	NLC
Flown:	23							

Cumulative Domain Coverage: N/A

## Weather Forecast

Boulder, CO



## Flight Collection Plan for 01 Aug 2018

### **Flyority 1** (Flight Priority 1):

Collection Area: Table Mountain Radiometric Calibration

Flight Plan Name: D10\_R10C\_Rad\_Cal\_TBMT\_v1\_Q780

On-Station Time: 15:59 UTC / 0959 L

### **Flyority 2** (Flight Priority 2): ***Lines 2- 30***

Collection Area: Niwot Ridge Mountain Research Station (NIWO)

Flight Plan Name: D13\_NIWO\_C1\_P1\_v5\_Q780

On-Station Time: 15:33 UTC / 0933 L

### **Flyority 3** (Flight Priority 3):

Collection Area: Rocky Mountain National Park (RMNP)

Flight Plan Name: D10\_RMNP\_R2\_P1\_v2\_Q780

On-Station Time: 15:33 UTC / 0933 L

### **Flyority 4** (Flight Priority 4):

Collection Area: Sterling Agricultural Site (STER)

Flight Plan Name: D10\_STER\_R1\_P1\_v3\_Q780

On-Station Time: 15:25 UTC / 0925 L

### **Flyority 5** (Flight Priority 5):

Collection Area: West St. Louis Creek (WLOU)

Flight Plan Name: D13\_WLOU\_A1\_P1\_v1\_Q780

On-Station Time: 15:35 UTC / 0935 L

Crew: Robb Walker (Lidar), Cameron Chapman (NIS)