



**57 Reunión Anual Sociedad Caribeña de Cultivos Alimenticios**  
**57 Annual Meeting Caribbean Food Crops Society**  
**57 Congrès Annual Société Caraïbe des Plantes Alimentaires**  
*“Una Sola Salud • One health • Une seule santé”*

Del 15 al 19 de Julio 2024, República Dominicana / July 15 to 19, 2024, Dominican Republic / Du 15 au 19 juillet 2024, République Dominicaine



**WORKSHOP: Leveraging Drone Technology for Agriculture: A Hands-On Workshop on Creating Orthomosaic, Plant Health, and Topographical Maps**

**Presenters:**

- Dr. Stacy Strickland, Extension Director and Agriculture Agent, UF/IFAS
- Brittany Scharf, Marine Sciences Agent, UF/IFAS
- Tim Wilson, Extension Director and Agriculture Agent, UF/IFAS
- Matt Smith, Commercial Horticulture Agent, UF/IFAS

**Workshop Duration:** from 9:00AM to 01:00PM. (Half Day)

**Location:** Barceló Bávaro Beach Hotel Convention Center, Punta Cana, Dominican Republic., CFCS 2024 Conference Venue.

**Date:** Wednesday July 17, 2024

**Costs:**

- Workshop: US\$110.00
- Day Pass US\$90.00\*

\* If you are not staying at the hotel, you must pay for the Workshop and the Day Pass.

**Capacity:** 40 Participants

**Workshop Overview:** This interactive half-day workshop, led by a team of experts from the University of Florida Institute of Food and Agricultural Sciences (UF/IFAS), is designed to empower participants with the knowledge and skills to utilize drone technology in agriculture effectively. Focusing on practical, cost-effective solutions, the workshop will introduce attendees to the process of capturing and analyzing drone images using a standard RGB camera to create orthomosaic maps, plant health maps, and topographical maps.

**Workshop Objectives:**

- To demonstrate the process of planning and executing a drone flight for agricultural monitoring.
- To teach participants how to use specific apps for image collection in the field.
- To guide participants through the process of using WebODM, an open-source software, for image processing.
- To discuss the applications of processed images in providing actionable insights for farmers and ranchers, enhancing productivity and sustainability.

*This workshop offers a unique opportunity for participants to gain hands-on experience with cutting-edge drone technology tailored to the needs of the agricultural sector. By focusing on accessible technology and open-source software, we aim to provide valuable skills that can be directly applied to enhance agricultural productivity and sustainability.*

## Workshop Agenda:

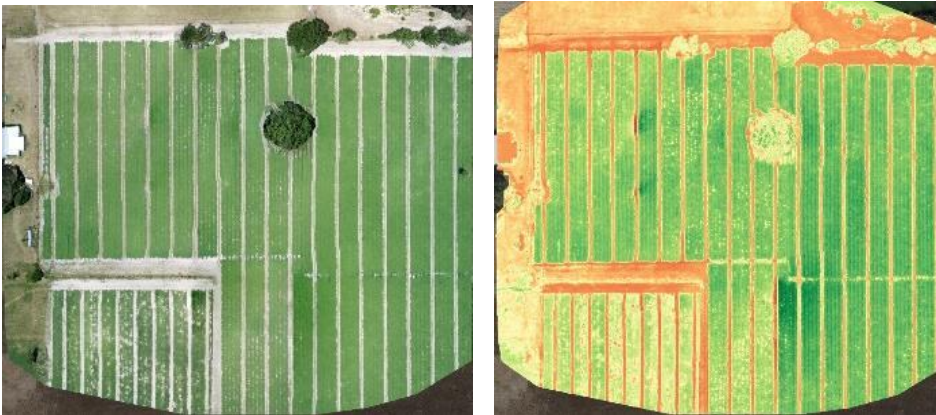
1. **Introduction to Drone Technology in Agriculture:** Overview of drone technology and its applications in modern agriculture.
2. **Flight Planning and Image Collection:** Hands-on session on using apps for effective drone flight planning and image capture. We intend to use available space such as the soccer field at the conference.
3. **Image Processing with WEBODM:** Classroom instruction on processing captured images to create valuable agricultural maps.
4. **Analysis and Application:** Discussion on interpreting maps for agricultural use, focusing on the benefits for farmers and ranchers.
5. **Cost-Effective Solutions:** Highlighting the advantages of using RGB cameras over more expensive hyper-spectral cameras, offering a practical approach for agricultural professionals.

**Target Audience:** Agricultural professionals, extension agents, farmers, ranchers, and anyone interested in applying drone technology for agricultural improvement.

## Workshop Requirements:

- No prior experience with drones is necessary.

The following are images of the maps produced from this method:



## Contact:

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General Coordinator

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**REGISTRATION FORM**

<b>Name:</b>	
<b>Last name:</b>	
<b>Email:</b>	
<b>Pone / Cell:</b>	
<b>Institution:</b>	

SELECT YOUR MODALITY: 1 - Stayed in a Hotel \_\_\_ 2- Day Pass \_\_\_

**SEND THIS FORM TO THE FOLLOWING EMAIL:**

registrocfc2024@gmail.com

Attention: Licda. Grace Zowe