

# Week 016 Bramor Training and Field Outing Report

## 1. Introduction:

This report is about the Bramor set up training and field outing on September 30th, Thursday. Flight crews and parachute folders were assigned, and I am one of them.

## 2. Lecture:

No lecture on this day.

## 3. Field Outing:

### 3.1. Site description:

The site is still at about 40.443864 North, -87.032616 West. This time, there are some random logs at where we launched last time.



Figure 1: Random logs

The catapult was placed in front of a gap made by tall grass, so UAV wouldn't fly into the tall grass when launching.



Figure 2: The grass is shorter in the middle.

### 3.2. Weather conditions:

The wind direction was mainly east.

The cloud was thin, and we can see the blue sky. Sun light was bright, so I had my sunglasses to protect my eyes.

Temperature was 25.6 C to 26.9 C, so we can fly there.

### 3.3. Operation:

#### 3.3.1. Crew 3

A. Set up and pre-flight:

Wind direction: east, southeast, calm.

Temperature: 25.6 C

Combox reading: 13.7.

Catapult placement: facing the tall grass field (east), near a pole.

UAV Battery: 16.4V

- Tablet battery: 93%
- Communication decibel level: -25db
- Satellite: 15
- B. Flight information
  - Parachute folded by: Megan Carsello
  - Takeoff altitude: 103m
  - Rally altitude: 60 m
  - Launch time: 10:29.
  - Rally start time: 10:38
  - Landing time: 10:41
  - Flight duration: 11 minutes

### 3.3.2. Crew 1

- A. Set up and pre-flight:
  - Wind direction: east, little stronger
  - Temperature: 26.9 C
  - Combox reading: 13.1.
  - Catapult placement: facing the tall grass field (east), near a pole.
  - UAV Battery: 16V
  - Tablet battery: 77%
  - Communication decibel level: -30db
  - Satellite: 16
  - Pitot tube checked.
- B. Flight information:
  - Parachute folded by: Mike
  - Launch time: 11:10.
  - Landing time: 11:18
  - Flight duration: 8 minutes

## 4. Conclusion:

I am glad that my parachute deployed successfully again. The first deployment of the day was also a success, but not so smooth. The hatch opened, and the break line struggled for a second when the UAV was already pointing down and falling. So making sure going through the procedure of parachute folding is critical.

Always fold the parachute carefully, always.