

# BLISS-FUL 2021 Preliminary Site Map

## Zone 1:

### 1. CLAMPS-1 (OU-NSSL, PI Klein)

- Doppler wind lidar, can measure u-, v-, and w-components and turbulence parameters in the PBL depending on the scan strategy. Learn more [here](#) and [here](#). [min dz=18 m, min dt=2s(w), 30s(u,v)]
- AERI & microwave radiometer (HATPRO) are passive thermodynamic profilers which are processed via the TROPoe algorithm to provide profiles of temperature and moisture in the PBL. Learn more [here](#) and [here](#) (TROPoe was AERIOe). [min dz=stretched 30m-4km, min dt=5min]
- Surface meteorology mast

### 2. Radiometrics microwave (contact Bell)

### 3. UAS flight zone (only operating during IOPs)

- CASS CopterSonde, profiles thermo and winds [dz= ~meters, dt=10-15 min] (PI Bell)
- CASS constituent sampling fixed wing (PI Pillar-Litte)
- Skydio copter, 4K video and photos (PI Wagner)
- Quantum Trinity, VTOL fixed wing platform with multispectral imager, capable of generating 3D models/point clouds in addition to multispectral analyses (PI Wagner)

### 4. Radiosonde launches (PI Smith/Bell)

- Only on as needed/approved basis

### Met Tower (PI Pillar-Little)

- 1 sec T/RH/U/V at 10m
- Additional sonic anemometer possibly operational at 9m

## Zone 2

### 1. CLAMPS-2 (NSSL, PI Smith; identical platforms as CLAMPS-1)

### 2. NSSL mobile lidar (PI Smith)

- Identical lidar as CLAMPS, can enable virtual towers
- Depends on field readiness

