Duke Forest hardwood tower

**Current measurements**
- CASTNET filterpack
- AMoN NH₃
- CO₂, H₂O concentration and flux
- O₃ concentration and flux
- Nitrotrain concentrations TNHₓ, NOy, HNO₃, NO₂ (direct), NO
- Formaldehyde concentration
- Turbulence, basic meteorology
- Surface energy balance

**Planned for 2019/2020**
- Picarro continuous NH₃ concentration
- Ecophysic concentration and flux TNr, NOy, NO₂ (direct)
- Particle size and flux (60 nm – 1 µm)

**Planned for adjacent grass field**
- Pandora 2S sun photometer: total and tropospheric column O₃, NO₂, HCHO (vertical column density in DU) and aerosol optical depth (AOD)
- Total Carbon Column Observing Network (TCCON) CO₂, CH₄, N₂O, HF, CO, H₂O, and HDO
- Windcube vertical profiler
- NTN wet dep

Soil volumetric water, soil/litter temperature, heat flux, ground RH