

This data package contains pyrolysis sample locations from the 2018 prescribed burn experiments conducted at Fort Jackson, Columbia, South Carolina. Prescribed burn experiments were part of Department of Defense Strategic Environmental Research and Development Program (SERDP), Project RC-2640: "Fundamental measurements and modeling of prescribed fire behavior in the naturally heterogeneous fuel beds of southern pine forests." The file 'FtJackson2018\_pyrolysis\_sample\_locations.zip' is a zipped ESRI point shapefile of pyrolysis sample locations.

Experimental burn units 16D1, 16D5, 16D6, 24A7, and 24B8 at Fort Jackson, a United States Army installation that the U.S. Army Training and Doctrine Command (TRADOC) operates on for Basic Combat Training (BCT). Fort Jackson is located within the city of Columbia, South Carolina. The burn units are contained within larger management units 16D, 24A and 24B at Ft. Jackson.

Study areas were selected by Fort Jackson managers and SERDP-funded scientists for scientific investigation and prescribed burning experiments in 2017 and 2018. Selected areas had been burned two years previous and had a relative abundance of Sparkleberry (*Vaccinium arboreum* Marshall) shrub cover in mixed *Pinus palustris* and *Pinus elliottii* stands.

Pyrolysis sample locations were recorded by gathering 20-50 GNSS points per sample location with a Trimble Geo 7X GNSS receiver. These locations were then differentially-corrected via post processing and averaged. Horizontal accuracy averaged 17 cm with a standard deviation of 14 cm.