*Map

Description automatically generated*

**Figure 1.**

*Map

Description automatically generated*

**Figure 2.**

*Chart, radar chart

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**Figure 3.** Circular plots indicating the aspect of individual trees at each site. Color of points indicates the fire history and shape of points indicates the elevation. Group letters were assigned using post-hoc Tukey’s HSD test results.

**Chart, scatter chart

Description automatically generated**

**Figure 4.** Relationship between elevation and soil carbon (A), soil nitrogen (B), soil carbon/nitrogen (C) and soil water retention (D). Color of points indicates the fire history. The trendlines indicate the modeled responses from the linear regression models.

**Chart, scatter chart

Description automatically generated**

**Figure 5.** Relationship between elevation and soil macronutrients: aluminum (A), calcium (B), potassium (C), magnesium (D), phosphorus (E), and zinc (F). Color of points indicates the fire history. The trendlines indicate the modeled responses from the linear regression models.

**Chart, scatter chart

Description automatically generated**

**Figure 6.** Relationship between elevation and δ13C (A) and δ15N (B), foliar carbon (C), foliar nitrogen (D), and foliar carbon/nitrogen (E). Color of points indicates the fire history. The trendlines indicate the modeled responses from the linear regression models.

**Chart, scatter chart

Description automatically generated**

**Figure 7.** Relationship between elevation and foliar macronutrients: aluminum (A), calcium (B), potassium (C), magnesium (D), phosphorus (E), and zinc (F). Color of points indicates the fire history. The trendlines indicate the modeled responses from the linear regression models.

**Chart, scatter chart

Description automatically generated**

**Figure 8.** Relationship between elevation and canopy spread (A), DBH (B), distance between neighbors (C), and tree height (D). Color of points indicates the fire history. The trendlines indicate the modeled responses from the linear regression models.