

Burned and Unburned Boreal Larch Forest Site Data, Northeast Siberia

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fire	unique identifier for the fire event (Batamay or Yert)
site	unique identifier used for field sites
treatment	categorical variable used to identify site as burned (burn) or unburned (control)
fire_year	year the fire event occurred
lat	latitude in decimal degrees (WGS84)
lon	longitude in decimal degrees (WGS84)
elevation	elevation in m above sea level
slope	ground slope in degrees
aspect	cardinal/ordinal direction faced by the slope (N: north; E: east; S: south; W: west)
forest_type	categorical variable describing forest types according to larch proportion, tree density and stand age. ("dense": young and dense larch-dominated stands; "open": mature and open larch-dominated stands; "mixed": mature and open larch/pine stands)
topo_position	categorical variable describing the topographic position of site locations as upland (U), midslope (M), lowland (L)
moisture_class	integers between 1 and 6 describing the potential moisture available for plant growth ranging from xeric to subhygric, as defined by Johnstone <i>et al</i> (2008). (1 = xeric, 2 = subxeric, 3 = subxeric to mesic, 4 = mesic, 5 = mesic to subhygric, 6 = subhygric)
geocbi	geometrically structured Composite Burn Index (GeoCBI), as defined by De Santis and Chuvieco (2009) (0–3)
thaw_depth	thaw depth measured in cm
stand_age	stand age of the dominant cohort, time (years) since the last stand-replacing disturbance
stand_density	vegetation (tree and shrub species) density in stems m ⁻²
stand_basal_area	vegetation (tree and shrub species) basal area in m ² ha ⁻¹
rel_stand_larix	relative abundance of larch (<i>Larix cajanderi</i>) among vegetation (0–1)
rel_stand_pinus	relative abundance of pine (<i>Pinus sylvestris</i>) among vegetation (0–1)
rel_stand_betula	relative abundance of birch (<i>Betula pendula</i>) among vegetation (0–1)

rel_stand_salix	relative abundance of willow (<i>Salix</i> spp.) among vegetation (0–1)
rel_stand_alnus	relative abundance of alder (<i>Alnus</i> spp.) among vegetation (0–1)
tree_density	tree density in stems m ⁻²
tree_basal_area	tree basal area in m ² ha ⁻¹
rel_tree_larix	relative abundance of larch (<i>Larix cajanderi</i>) among tree species (0–1)
rel_tree_pinus	relative abundance of pine (<i>Pinus sylvestris</i>) among tree species (0–1)
rel_tree_betula	relative abundance of birch (<i>Betula pendula</i>) among tree species (0–1)
veg_c_prefire	pre-fire vegetation (trees and shrubs) carbon pool (g C m ⁻²)
veg_c_combusted	combusted carbon from vegetation in burned sites (g C m ⁻²)
woodydebris_c_prefire	pre-fire woody debris carbon pool (g C m ⁻²)
woodydebris_c_combusted	combusted carbon from woody debris in burned sites (g C m ⁻²)
sol_prefire	pre-fire soil organic layer depth (cm)
sol_residual	residual soil organic layer depth in burned sites (cm)
burn_depth	burn depth in burned sites (cm)
bg_c_prefire	pre-fire belowground carbon pool (g C m ⁻²)
bg_c_residual	residual belowground carbon pool in burned sites (g C m ⁻²)
bg_c_combusted	combusted carbon from belowground in burned sites (g C m ⁻²)
total_c_prefire	total pre-fire carbon pool (g C m ⁻²)
prop_bg_c_prefire	proportion of total pre-fire carbon pool from belowground (0–1)
total_c_combusted	total combusted carbon in burned sites (g C m ⁻²)
prop_total_prefire_c_combusted	proportion of total pre-fire carbon pool combusted in burned sites (0–1)
prop_total_bg_c_combusted	proportion of total carbon combusted from belowground in burned sites (0–1)

De Santis A and Chuvieco E 2009 GeoCBI: A modified version of the Composite Burn Index for the initial assessment of the short-term burn severity from remotely sensed data *Remote Sens. Environ.* **113** 554–562

Johnstone J F, Hollingsworth T N and Chapin F S 2008 *A key for predicting postfire successional trajectories in black spruce stands of interior Alaska* General Technical Report PNW-GTR-767 (Portland, OR, USA: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station)