

data homogenization processing summary and QC check results: ARC1

notes included with key file:

source	Var_long	var	var_notes
location	Google Directory		ARC1
location	Network (e.g. LTER, CZO, DIRT, NutNet, etc)	network	LTER
location	Site code (e.g. LUQ) or name	site_code	ARC
location	Location name	location_name	Thermokarst Gradient, Toolik
profile	Treatment_1_level	tx_L1	either disturbed (thaw slump) or undisturbed - within each site (or block) there are disturbed or undisturbed areas - and within each disturbed or undisturbed area there are 1-5 transects with 5 soil profiles per transect
profile	Bulk Layer Organic Carbon (CN analyzer) concentration, inorganic C removed or not present	lyr_soc	use the stocks instead
profile	Bulk Layer Organic Carbon (CN analyzer) stock	lyr_soc_stock	These stocks have been adjusted - soil depth has been scaled to 15 cm for mineral soils so use these stocks instead of re-calculating it based on depth, bulk density, and concentrations
profile	Bulk Layer Total Nitrogen concentration	lyr_n_tot	use the stocks instead
profile	Bulk Layer Total Nitrogen stock	lyr_n_tot_stock	These stocks have been adjusted - soil depth has been scaled to 15 cm for mineral soils
profile	Layer Top	layer_top	the true depths of the soil samples are not necessarily equivalent to the top layer and the bottom layer - so the C and N stocks are adjusted accordingly - use the stocks - DO NOT recalculate
profile	Layer Bottom	layer_bot	all mineral soil horizons have a top layer of 0cm BUT this represents the level directly below the organic layer - so to get a true depth of sample need to add

files processed:

type	filename
provided data	2009-2013_MCM_TKsoil_1a.csv
homogenized data	2009-2013_MCM_TKsoil_1a_HMGZD

variable conversion

source	var	Var_long	given_unit	target_unit	factor	varNotes
location	map	Mean Annual Precipitation	mm	mm		NOT converted
profile	lyr_n_tot	Bulk Layer Total Nitrogen concentration	%	percent		NOT converted
profile	lyr_soc	Bulk Layer Organic Carbon (CN analyzer) concentration, inorganic C removed or not present	%	percent		NOT converted
profile	layer_bot	Layer Bottom	cm	cm		NOT converted
profile	lyr_soc_stock	Bulk Layer Organic Carbon (CN analyzer) stock	g m-2	g C m-2		NOT converted

QC results: location data

location data checks passed

QC results: profile data, data range

var	min	max	minValue	maxValue	error
bd_samp	0.01	1.95	0.1	2	out of range

QC results: profile data, data type

profile data type checks passed