

data homogenization processing summary and QC check results: HBR_W1

notes included with key file:

source	Var_long	var	var_notes
location	Google Directory		HBR_W1
location	Network (e.g. LTER, CZO, DIRT, NutNet, etc)	network	LTER
location	Site code (e.g. LUQ) or name	site_code	HBR
location	Location name	location_name	Watershed 1
location	aboveground biomass	agb	values from HBR book, converted to gC here by multiplying gDM by 0.5 https://hubbardbrook.org/online-book/forest-biomass-and-primary-productivity
location	root biomass	bgb	values from HBR book, converted to gC here by multiplying gDM by 0.5 https://hubbardbrook.org/online-book/forest-biomass-and-primary-productivity
location	alignment notes for profile data	align	average time series by plot
location	includes experimental manipulations	experiments	watershed scale Ca fertilization, pre&post treatment samples provided
location	control samples identifier	control_id	Tx = 0 for pretreatment values
profile	Treatment_1_level	tx_L1	Ca Fertilization
profile	Layer Top	layer_top	same values for Oa and Oie
profile	Layer Bottom	layer_bot	same values for Oa and Oie
profile	Horizon	hzn	assumed cor and min are both 0-10 cm mineral soils
profile	Soil pH CaCl2	ph_cacl	5:1 for Oa and Oei samples, 1:1 for mineral soils
profile	Soil pH in water	ph_h2o	5:1 for Oa and Oei samples, 1:1 for mineral soils

files processed:

type	filename
provided data	HBR_W1_Soil_Data_1998_2014.csv
homogenized data	HBR_W1_Soil_Data_1998_2014_HMGZD

variable conversion

source	var	Var_long	given_unit	target_unit	factor	varNotes
location	bgb	root biomass	gDM m-2	g m-2	2	converted
location	bgb_lowerdiam	root biomass lower diameter cutoff	mm	cm	10	converted
location	bgb_upperdiam	root biomass upper diameter cutoff	mm	cm	10	converted
profile	lyr_soc_stock	Bulk Layer Organic Carbon (CN analyzer) stock	g C m-2	t ha-1	100	converted

source	var	Var_long	given_unit	target_unit	factor	varNotes
profile	lyr_n_tot_stock	Bulk Layer Total Nitrogen stock	g N m-2	t ha-1	100	converted
location	agb	aboveground biomass	g m-2	g m-2		NOT converted
location	anpp	aboveground net primary productivity	g/m2/y	g/m2/y		NOT converted
location	bnpp	belowground net primary productivity	g/m2/y	g/m2/y		NOT converted
location	npp	net primary productivity	g/m2/y	g/m2/y		NOT converted
location	wood_lit_c	Wood litterfall C flux	g/m2/y	g/m2/y		NOT converted
location	map	Mean Annual Precipitation	mm	mm		NOT converted
profile	lyr_loi	Bulk Layer Loss on Ignition	%	percent		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	layer_top	Layer Top	cm	cm		NOT converted

QC results: location data

dataset	source	var	error
HBR_W1	location	agb	out of range
HBR_W1	location	bgb	out of range
HBR_W1	location	bgb_lowerdiam	out of range
HBR_W1	location	bgb_upperdiam	out of range

QC results: profile data, data range

profile data range checks passed

QC results: profile data, data type

profile data type checks passed