data homogenization processing summary and QC check results: UMBS__DIRT__Bulk__Den__2004__2009

notes included with key file:

source	Var__long	var	var__notes
location	Google Directory		UMBS_DIRT_Bulk_Den_2004_2009
location	Network (e.g. LTER, CZO, DIRT, NutNet, etc)	network	DIRT
location	Site code (e.g. LUQ) or name	site_code	UMBS
location	Location name	location_name	University of Michigan Biological Station
location	Depth to Water Table	depth_water	>5 meters
location	Fine Litterfall Carbon	lit_c	SE = ±17.0
location	Fine Litterfall Nitrogen	lit_n	SE = ±0.3
location	Fine Litterfall C:N	lit_cn	SE = ±3.9
location	bnpp notes (ingrowth, sequential coring, etc)	bnpp_notes	Number derived from belowground wood production (coarse roots) and fine root production. Belowground wood production is about 20% of fine root production. See Table 1 in reference.
location	aboveground biomass	agb	Estimated from Fig 2, ~100-yr-old forest biomass on glacial outwash soils
location	root biomass C	bgb_c	SE = ±80
location	root biomass N	bgb_n	SE = ±0.5
location	root biomass C:N	bgb_cn	SE = ±7.8
location	includes time-series data	time_series	Repeated measures in 2004 and 2009
location	control samples identifier	control_id	REF = reference plots compare to other sites, C = DIRT control with understory removed, comparable to other DIRT treatments / sites.

files processed:

type	filename
provided data	UMBS_DIRT_Bulk_Den_2004_2009.csv
homogenized data	UMBS_DIRT_Bulk_Den_2004_2009_HMGZD

variable conversion

source	var	Var_long	given_unit	target_unit	factor	varNotes
location	npp	net primary productivity	g/m2/y	kg/ha/y	0.1	converted
location	anpp	aboveground net primary productivity	g/m2/y	kg/ha/y	0.1	converted
location	bnpp	belowground net primary productivity	g/m2/y	kg/ha/y	0.1	converted

source	var	Var_long	given_unit	target_unit	factor	varNotes
location	agb	aboveground biomass	g m-2	t ha-1	100	converted
location	bgb	root biomass	gDM m-2	t ha-1	200	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
location	bgb_c	root biomass C	%	g kg-1	0.1	converted
location	bgb_n	root biomass N	%	g kg-1	0.1	converted
location	lit_c	Fine Litterfall Carbon	g kg-1	mg g-1		NOT converted
location	lit_n	Fine Litterfall Nitrogen	g kg-1	mg g-1		NOT converted
location	depth_water	Depth to Water Table	m	m		NOT converted
location	map	Mean Annual Precipitation	mm	mm		NOT converted
location	clay	Clay	percent	percent		NOT converted
location	sand	Sand	percent	percent		NOT converted
location	silt	Silt	percent	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
UMBS_DIRT_Bulk_Den_2004_2009	location	agb	out of range
UMBS_DIRT_Bulk_Den_2004_2009	location	bgb	out of range

QC results: profile data, data range

var	min	max	minValue	maxValue	error
bd_samp	0.63	2.16	0.1	2	out of range

QC results: profile data, data type

profile data type checks passed