

# Controlled Vocabularies Used by International Soil Carbon Network Templates

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[This is a beta release of the ISCN Database products. Several features of the database, data submissions guidelines and quality checks are still under development. Please send any feedback to nscn-support@george.lbl.gov.](#)

Vocabulary	Parsing Token	Description
2d_position used by :		
	backslope	
	base slope	
	center third - mountainflank	
	crest	
	dip	
	footslope	
	free face	
	head slope	
	interfluve	
	lower third - mountainflank	
	mountainbase	
	mountainflank	
	mountaintop	
	none	
	nose slope	
	other	
	rise	
	riser	
	shoulder	
	side slope	
	summit	
	talf	
	toeslope	
	tread	
	upper third - mountainflank	
ccon_type used by : ccon_site_type, ccon_prof_type, ccon_samp_type, ccon_fract_type		
	min	mineral

	org	organic
	whole	whole soil
country used by :		
	Afghanistan	
	Albania	
	Antarctica	
	Argentina	
	Australia	
	Azores	
	Belgium	
	Belize	
	Bolivia	
	Botswana	
	Brazil	
	Bulgaria	
	Burundi	
	Cameroon	
	Canada	
	Canary Islands	
	Chile	
	China	
	Colombia	
	Congo (Democratic Republic of the)	
	Costa Rica	
	Cuba	
	Dahomey	
	Denmark	
	Ecuador	
	Egypt	
	El Salvador	
	Estonia	
	Federated States of Micronesia	
	Finland	
	France	
	Gambia	
	Georgia	
	Germany	
	Ghana	
	Greece	

	Greenland	
	Guatemala	
	Guinea	
	Guyana	
	Haiti	
	Honduras	
	Hungary	
	Iceland	
	India	
	Indonesia	
	Iran	
	Iraq	
	Ireland	
	Italy	
	Ivory Coast	
	Japan	
	Jordan	
	Kenya	
	Korea, Democratic People's Republic of	
	Korea, Republic of	
	Laos	
	Latvia	
	Lebanon	
	Lesotho	
	Lithuania	
	Malawi	
	Malaysia	
	Mali	
	Mauritania	
	Mexico	
	Mongolia	
	Morocco	
	Nepal	
	Netherlands	
	New Zealand	
	Nicaragua	
	Niger	
	Nigeria	
	Norway	

	Oman	
	Pakistan	
	Palau	
	Panama	
	Papua New Guinea	
	Peru	
	Philippines	
	Poland	
	Portugal	
	Portuguese Guinea	
	Puerto Rico	
	Russia	
	Rwanda	
	Samoa	
	Senegal	
	Sierra Leone	
	Solomon Islands	
	Somalia	
	South Africa	
	Spain	
	Sri Lanka	
	Sudan	
	Sweden	
	Switzerland	
	Syria	
	Taiwan	
	Tanzania	
	Tasmania	
	Thailand	
	Togo	
	Tunisia	
	Turkey	
	Uganda	
	United Arab Emirates	
	United States	
	Uruguay	
	Vanuatu	
	Venezuela	
	Vietnam	

	Yemen	
	Yugoslavia	
	Zambia	
	Zimbabwe	
datum used by :		
	NAD27	
	NAD83	
	WGS84	
direction used by :		
	east	
	level	no slope
	north	
	north-east	
	north-west	
	south	
	south-east	
	south-west	
	west	
dm_agriculture used by :		
	Crop residue management	
	Harvest	
	Other	
dm_encroach used by :		
	Invasive species	
	Other	
	Urban encroachment	
	Woody encroachment	
dm_ext_weather used by :		
	Drought	
	Flood	
	Freeze	
	Heatwave	
	Hurricane	
	Other	
	Storm	
	Tornado	
dm_fert_m used by :		
	K	
	Lime	

	N	
	Other	
	P	
dm_fert_o used by :		
	Compost	
	Liquid manure	
	Other	
	Poultry	
	Solid manure	
dm_fire used by :		
	Accidental human induced burn	
	Accidental human induced underburn	
	Nature induced burn	
	Nature induced underburn	
	Other	
	Prescribed human induced burn	
	Prescribed human induced underburn	
dm_forestry used by :		
	Clearcutting	
	Fallen wood removal	
	Other	
	Thinning/pruning	
dm_general used by :		
	Other	
	Undisturbed	
dm_graze used by :		
	Cattle	
	Goat	
	Other	
	Sheep	
dm_ins_path used by :		
	Disease	
	Insect	
	Other	
	Pathogen	
dm_pesticide used by :		
	Bactericide	
	Fungicide	

	Herbicide	
	Insecticide	
	Other	
dm_planting used by :		
	Other	
	Planting live crops	
	Planting live grasses	
	Planting live shrubs	
	Planting live trees	
	Planting other live plants	
	Sowing crop seeds	
	Sowing grass seeds	
	Sowing other seeds	
	Sowing shrub trees	
	Sowing tree seeds	
dm_till used by :		
	Conservation	
	Conventional	
	Other	
	Ridge till	
	Scarification	
	Stripe till	
dm_water used by :		
	Drainage	
	Human induced flooding	
	Irrigation	
	Other	
drainage used by :		
	excessively	
	moderately well	
	other	
	poorly	
	somewhat excessively	
	somewhat poorly	
	very poorly	
	well	
extract_units used by :		
	cmol H+ kg-1	centimoles of charge per kilogram oven-dry soil
	meq 100g-1	millequivalents per 100g oven-dry soil

	mg kg-1	milligrams of analyte per kilogram oven-dry soil (equivalent to ppm)
	percent_mass	analyte as per cent of soil dry mass
	percent_ret	percent retention (NZ P)
	percent_sat	percent saturation of bases
flood_freq used by :		
	common	
	frequent	
	none	
	occasional	
	rare	
	very frequent	
	very rare	
inc_exc used by :		
	exclude	Excluded
	include	Included
landform used by :		
	aa lava flow	
	alas	
	alluvial cone	
	alluvial fan	
	alluvial flat	
	alpine glacier	
	anticline	
	arete	
	arroyo	
	ash field	
	ash flow	
	atoll	
	avalanche chute	
	axial stream	
	back-barrier beach	
	back-barrier flat	
	backshore	
	backswamp	
	bajada	
	ballena	
	ballon	
	bar	
	barchan dune	



	barrier beach	
	barrier beach (relict)	
	barrier cove	
	barrier flat	
	barrier island	
	basin floor	
	basin-floor remnant	
	bay (coast)	
	bay (geom.)	
	bay bottom	
	bayou	
	beach	
	beach plain	
	beach ridge	
	beach terrace	
	berm	
	beveled base	
	blind valley	
	block field	
	block glide	
	block lava flow	
	block stream	
	blowout	
	bluff	
	bog	
	box canyon	
	braided stream	
	breached anticline	
	breaks	
	broad interstream divide	
	butte	
	caldera	
	canyon	
	canyon bench	
	canyon wall	
	Carolina Bay	
	channel	
	chenier	
	chenier plain	

	cinder cone	
	cirque	
	cirque floor	
	cirque headwall	
	cirque platform	
	cliff	
	climbing dune	
	closed depression	
	coastal plain	
	cockpit	
	col	
	collapse sinkhole	
	collapsed ice-floored lakebed	
	collapsed ice-walled lakebed	
	collapsed lake plain	
	collapsed outwash plain	
	colluvial apron	
	complex landslide	
	coral island	
	coulee	
	cove	
	cove (water)	
	crag and tail	
	creep	
	crevasse filling	
	cuesta	
	cuesta valley	
	cutoff	
	debris avalanche	
	debris fall	
	debris flow	
	debris slide	
	debris spread	
	debris topple	
	deflation basin	
	deflation flat	
	delta	
	delta plain	
	depression	

	diapir	
	diatrema	
	dike	
	dip slope	
	disintegration moraine	
	distributary	
	divide	
	dome	
	drainageway	
	drainhead complex	
	draw	
	drumlin	
	drumlinoid ridge	
	dune	
	dune field	
	dune lake	
	dune slack	
	earth spread	
	earth topple	
	earthflow	
	end moraine	
	ephemeral stream	
	eroded fan remnant	
	eroded fan-remnant sideslope	
	erosion remnant	
	escarpment	
	esker	
	estuary	
	faceted spur	
	fall	
	falling dune	
	fan	
	fan apron	
	fan collar	
	fan piedmont	
	fan remnant	
	fan skirt	
	fanhead trench	
	fault block	

	fault zone	
	fault-line scarp	
	fen	
	fissure vent	
	fjord	
	flat	
	flatwoods	
	flood plain	
	flood-plain playa	
	flood-plain splay	
	flood-plain step	
	flood-tidal delta	
	flood-tidal delta flat	
	flood-tidal delta slope	
	flow	
	flute	
	fluviomarine bottom	
	fluviomarine terrace	
	fold	
	foredune	
	fosse	
	free face	
	fringe-tidal marsh	
	gap	
	geyser	
	geyser basin	
	geyser cone	
	giant ripple	
	glacial drainage channel	
	glacial lake	
	glacial lake (relict)	
	glacial-valley floor	
	glacial-valley wall	
	glacier	
	gorge	
	graben	
	ground moraine	
	gulch	
	gulf	

gut (channel)	
gut (valley)	
half graben	
hanging valley	
headland	
head-of-outwash	
headwall	
high hill	
highmoor bog	
hill	
hillslope	
hogback	
homoclinal ridge	
homocline	
horn	
horst	
hot spring	
ice pressure ridge	
ice-contact slope	
ice-marginal stream	
ice-pushed ridge	
inlet	
inselberg	
inset fan	
interdrumlin	
interdune	
interfluve	
interior valley	
intermittent stream	
intermontane basin	
island	
kame	
kame moraine	
kame terrace	
karst cone	
karst lake	
karst tower	
karst valley	
karstic marine terrace	

	kettle	
	kipuka	
	knob	
	knoll	
	lagoon	
	lagoon (relict)	
	lagoon bottom	
	lagoon channel	
	lahar	
	lake	
	lake plain	
	lake terrace	
	lakebed	
	lakebed (relict)	
	lakeshore	
	landslide	
	lateral moraine	
	lateral spread	
	lava dome	
	lava field	
	lava flow	
	lava flow unit	
	lava plain	
	lava plateau	
	lava trench	
	lava tube	
	ledge	
	levee	
	loess bluff	
	loess hill	
	longitudinal dune	
	longshore bar	
	longshore bar (relict)	
	louderback	
	low hill	
	lowmoor bog	
	maar	
	main scarp	
	mainland cove	

	mangrove swamp	
	marine lake	
	marine terrace	
	marsh	
	mawae	
	meander	
	meander scar	
	meander scroll	
	meandering channel	
	medial moraine	
	mesa	
	meteorite crater	
	mogote	
	monadnock	
	monocline	
	moraine	
	mountain	
	mountain slope	
	mountain valley	
	mud pot	
	mudflow	
	muskeg	
	natural levee	
	nearshore zone	
	nearshore zone (relict)	
	notch	
	nunatak	
	open depression	
	other	
	outwash delta	
	outwash fan	
	outwash plain	
	outwash terrace	
	overflow stream channel	
	oxbow	
	oxbow lake	
	paha	
	pahoehoe lava flow	
	paleoterrace	

	parabolic dune	
	parna dune	
	partial ballena	
	patterned ground	
	pavement karst	
	peak	
	peat plateau	
	pediment	
	perennial stream	
	pillow lava flow	
	pingo	
	pinnacle	
	pitted outwash plain	
	pitted outwash terrace	
	plain	
	plateau	
	playa	
	playa dune	
	playa floor	
	playa lake	
	playa rim	
	playa slope	
	playa step	
	plug dome	
	pluvial lake	
	pluvial lake (relict)	
	pocosin	
	point bar	
	point bar (coastal)	
	pothole	
	pothole lake	
	proglacial lake	
	proglacial lake (relict)	
	pyroclastic flow	
	pyroclastic surge	
	raised beach	
	raised bog	
	ravine	
	recessional moraine	



	reef	
	ribbed fen	
	ridge	
	rim	
	rise	
	river	
	river valley	
	roche moutonnée	
	rock glacier	
	rock pediment	
	rock spread	
	rock topple	
	rockfall	
	rockfall avalanche	
	rotational debris slide	
	rotational earth slide	
	rotational rock slide	
	rotational slide	
	sabkha	
	saddle	
	sag	
	sag pond	
	salt marsh	
	salt pond	
	sand flow	
	sand ramp	
	sand sheet	
	scarp	
	scarp slope	
	scree slope	
	sea	
	sea cliff	
	seep	
	seif dune	
	semi-open depression	
	shield volcano	
	shoal	
	shoal (relict)	
	shore	

	shore complex	
	sill	
	sinkhole	
	slackwater	
	slickrock	
	slide	
	slot canyon	
	slough	
	slump block	
	snowfield	
	soil fall	
	solution platform	
	solution sinkhole	
	sound	
	spit	
	spur	
	stack (coast)	
	stack (geom.)	
	star dune	
	steptoe	
	stock	
	stoss and lee	
	strait	
	strand plain	
	strath terrace	
	stratovolcano	
	stream	
	stream terrace	
	strike valley	
	string bog	
	structural bench	
	submerged back-barrier beach	
	submerged mainland beach	
	submerged point bar (coast)	
	submerged wave-built terrace	
	submerged wave-cut platform	
	submerged–upland tidal marsh	
	swale	
	swallow hole	

	swamp	
	syncline	
	talus cone	
	talus slope	
	tarn	
	terminal moraine	
	terrace	
	terrace remnant	
	thermocarst depression	
	thermocarst lake	
	tidal flat	
	tidal inlet	
	tidal inlet (relict)	
	tidal marsh	
	till plain	
	till-floored lake plain	
	toe	
	tombolo	
	topple	
	tor	
	Toreva block	
	translational debris slide	
	translational earth slide	
	translational rock slide	
	translational slide	
	transverse dune	
	trough	
	tunnel valley	
	tunnel-valley lake	
	underfit stream	
	U-shaped valley	
	valley	
	valley flat	
	valley floor	
	valley side	
	valley train	
	valley-border surfaces	
	valley-floor remnant	
	volcanic cone	

	volcanic crater	
	volcanic dome	
	volcanic field	
	volcanic neck	
	volcanic pressure ridge	
	volcano	
	V-shaped valley	
	wash	
	washover fan	
	washover-fan flat	
	washover-fan slope	
	water-lain moraine	
	wave-built terrace	
	wave-cut platform	
	wave-worked till plain	
	wind gap	
	window	
	wind-tidal flat	
	yardang	
	yardang trough	

landsat used by :		
	Barren Land (Rock/Sand/Clay)	areas of bedrock, desert pavement, scarps, talus, slides, volcanic material, glacial debris, sand dunes, strip mines, gravel pits and other accumulations of earthen material. Generally, vegetation accounts for less than 15% of total cover.
	Cultivated Crops	areas used for the production of annual crops, such as corn, soybeans, vegetables, tobacco, and cotton, and also perennial woody crops such as orchards and vineyards. Crop vegetation accounts for greater than 20% of total vegetation. This class also includes all land being actively tilled.
	Deciduous Forest	areas dominated by trees generally greater than 5 meters tall, and greater than 20% of total vegetation cover. More than 75% of the tree species shed foliage simultaneously in response to seasonal change.
	Developed High Intensity	highly developed areas where people reside or work in high numbers. Examples include apartment complexes, row houses and commercial/industrial. Impervious surfaces account for 80% to 100% of the total cover.
	Developed, Low Intensity	areas with a mixture of constructed materials and vegetation. Impervious surfaces account for 20% to 49% percent of total cover. These areas most commonly include single-family housing units.
	Developed, Medium Intensity	areas with a mixture of constructed materials and

		vegetation. Impervious surfaces account for 50% to 79% of the total cover. These areas most commonly include single-family housing units.
	Developed, Open Space	areas with a mixture of some constructed materials, but mostly vegetation in the form of lawn grasses. Impervious surfaces account for less than 20% of total cover. These areas most commonly include large-lot single-family housing units, parks, golf courses, and vegetation planted in developed settings for recreation, erosion control, or aesthetic purposes.
	Dwarf Scrub	Alaska only areas dominated by shrubs less than 20 centimeters tall with shrub canopy typically greater than 20% of total vegetation. This type is often co-associated with grasses, sedges, herbs, and non-vascular vegetation.
	Emergent Herbaceous Wetlands	areas where perennial herbaceous vegetation accounts for greater than 80% of vegetative cover and the soil or substrate is periodically saturated with or covered with water.
	Evergreen Forest	areas dominated by trees generally greater than 5 meters tall, and greater than 20% of total vegetation cover. More than 75% of the tree species maintain their leaves all year. Canopy is never without green foliage.
	Grassland/Herbaceous	areas dominated by graminoid or herbaceous vegetation, generally greater than 80% of total vegetation. These areas are not subject to intensive management such as tilling, but can be utilized for grazing.
	Lichens	Alaska only areas dominated by fruticose or foliose lichens generally greater than 80% of total vegetation.
	Mixed Forest	areas dominated by trees generally greater than 5 meters tall, and greater than 20% of total vegetation cover. Neither deciduous nor evergreen species are greater than 75% of total tree cover.
	Moss	Alaska only areas dominated by mosses, generally greater than 80% of total vegetation.
	Open Water	areas of open water, generally with less than 25% cover of vegetation or soil.
	Pasture/Hay	areas of grasses, legumes, or grass-legume mixtures planted for livestock grazing or the production of seed or hay crops, typically on a perennial cycle. Pasture/hay vegetation accounts for greater than 20% of total vegetation.
	Perennial Ice/Snow	areas characterized by a perennial cover of ice and/or snow, generally greater than 25% of total cover.
	Sedge/Herbaceous	Alaska only areas dominated by sedges and forbs, generally greater than 80% of total vegetation. This type can occur with significant other grasses or other grass like plants, and includes sedge tundra, and sedge tussock tundra.

	Shrub/Scrub	areas dominated by shrubs; less than 5 meters tall with shrub canopy typically greater than 20% of total vegetation. This class includes true shrubs, young trees in an early successional stage or trees stunted from environmental conditions.
	Woody Wetlands	areas where forest or shrubland vegetation accounts for greater than 20% of vegetative cover and the soil or substrate is periodically saturated with or covered with water.

landscape used by :

	alluvial plain	
	alluvial plain remnant	
	badlands	
	bajada	
	barrier island	
	basin	
	basin floor	
	batolith	
	bay (coast)	
	bolson	
	breached anticline	
	breaklands	
	breaks	
	caldera	
	canyonlands	
	coastal plain	
	cockpit karst	
	cone karst	
	continental glacier	
	delta plain	
	dissected breaklands	
	dissected plateau	
	drumlin field	
	dune field	
	estuary	
	everglades	
	fan piedmont	
	fault-block mountains	
	fluviokarst	
	fluviomarine terrace	
	fold-thrust hills	

	foothills	
	glaciokarst	
	gulf	
	hills	
	ice-margin complex	
	intermontane basin	
	island	
	karst	
	kegel karst	
	lagoon	
	lake plain	
	lava field	
	lava plain	
	lava plateau	
	lowland	
	marine terrace	
	meander belt	
	mountain range	
	mountain system	
	mountains	
	ocean	
	outwash plain	
	peninsula	
	piedmont	
	piedmont slope	
	plain	
	plateau	
	rift valley	
	river valley	
	sand plain	
	sandhills	
	scabland	
	sea	
	semi-bolson	
	shield volcano	
	shore complex	
	sinkhole karst	
	sound	
	strait	

	tableland	
	thermocarst	
	till plain	
	tower karst	
	upland	
	valley	
	volcanic field	
pond_freq used by :		
	common	
	frequent	
	none	
	occasional	
	rare	
profile_zero_ref used by :		
	Other	
	Top of mineral soil	Top of mineral soil not including organic layers
	Top of surface	On top of all organic layers
runoff used by :		
	high	
	low	
	medium	
	negligible	
	ponded	
	very high	
	very low	
site_perm used by :		
	impermeable	
	moderate	
	moderately rapid	
	moderately slow	
	rapid	
	slow	
	very rapid	
	very slow	
stand_age used by :		
	even-age, aggrading	
	mature	
	mature, even-age	
	mature, uneven-age	



	not applicable	
	oldgrowth, all-age	
	transition, breakup	
	uneven-age	
	young, regenerative	
state_province used by :		
	Abu Zaby	United Arab Emirates
	'Ajman	
	Alabama	
	Alajuela	Costa Rica
	Alaska	
	Alberta	Canada
	American Samoa	American Samoa (included with Pacific Basin)
	Arizona	
	Arkansas	
	British Columbia	Canada
	California	
	Campeche	Mexico
	Caprivi	Nigeria
	Cartago	Costa Rica
	Cataluna	
	Chiapas	Mexico
	Chuuk	Federated States of Micronesia
	Colorado	
	Connecticut	
	Czestochowa	
	Delaware	
	District of Columbia	
	Erongo	China, Poland
	Farah	Afghanistan
	Federated States of Micronesia	
	Florida	
	Georgia	
	Guam	Guam (included with Pacific Basin)
	Guanacaste	Costa Rica
	Guanajuato	Mexico
	Guerrero	Mexico
	Hawaii	
	Ibb	China

	Idaho	
	Illinois	
	Indiana	
	Iowa	
	Jalisco	Mexico
	Kansas	
	Kentucky	
	Konar	Afghanistan
	Kosrae	Federated States of Micronesia
	Labrador	Canada
	Louisiana	
	Maine	
	Manicaland	Albania, Antarctica, Mali, Turkey
	Manitoba	Canada
	Maryland	
	Mashonaland East	Ghana
	Mashonaland West	Ghana
	Massachusetts	
	Masvingo	Ghana
	Matabeleland North	China
	Michigan	
	Michoacan de Ocampo	Mexico
	Midlands	Federated States of Micronesia, Ghana
	Minnesota	
	Mississippi	
	Missouri	
	Montana	
	Morelos	Mexico
	National Lab	(NRCS only)
	Nebraska	
	Nevada	
	New Brunswick	Canada
	New Hampshire	
	New Jersey	
	New Mexico	
	New York	
	Newfoundland	Canada
	North Carolina	
	North Dakota	

	Northern Mariana Islands	Northern Mariana Islands (included with Pacific Basin)
	Northwest Territories	Canada
	Nova Scotia	Canada
	Nunavut	Canada
	Ohio	
	Okavango	Nigeria
	Oklahoma	
	Ontario	Canada
	Oregon	
	Palau	
	Pennsylvania	
	Pohnpei	Federated States of Micronesia
	Prince Edward Island	Canada
	Puerto Rico	
	Quebec	Canada
	Rhode Island	
	San Jose	Costa Rica
	Saskatchewan	Canada
	South Carolina	
	South Dakota	
	Tabasco	Mexico
	Tennessee	
	Texas	
	Tsumeb	Hungary
	Utah	
	Vermont	
	Virgin Islands	
	Virginia	
	Washington	
	West Virginia	
	Wisconsin	
	Wyoming	
	Yap	Federated States of Micronesia
	Yucatan	Mexico
	Yukon	Canada
yes_blank used by : add_taxon_flag		
		indicator not present
	yes	indicator present