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Fundamental materials and structures	Specific materials and description	
<b>Inherited-conserved materials (Icm)</b> , those rocks or isolated biogenic or inorganic materials inherited and conserved from parent substratum.	<i>Rock fragments pseudoparticles</i> of igneous plutonic, hypabyssal, volcanic, among others, metamorphic quartzite, marble, hornfels, schist, phyllite, slate, gneiss, cataclastic, among others, or sedimentary soil, clastic, biogenic, chemical or diagenetic.	
	<i>Inherited and conserved pseudoparticles (Icpp)</i> : Solid preserved materials release by weathering partial alteration-destruction of parent substratum: Resistant materials named pseudoparticles of silt, sand and gravel that look like particles but without any transportation.	<i>Light and heavy "Crystals" pseudoparticles</i> of quartz, zircon, ilmenite, etc., inherited-conserved from igneous or metamorphic rocks.
		<i>Biogenic pseudoparticles</i> : biogenic production inherited and conserved from sedimentary rocks (corporeal bioliths, bioconstruction, etc.)
		<i>Chemical sedimentary pseudoparticles</i> : pure abiogenic chemical formation-accumulation materials inherited and conserved from sedimentary rocks (gypsum crystals, abiogenic oxides, etc.)
	<i>Diagenetic pseudoparticles</i> : original diagenetic modification-transformation materials inherited and conserved from sedimentary rocks (e.g., hematitic oxides, calcareous concretions, etc.).	
	<i>Inherited and conserved particles (Icp)</i> : gravel, sand and mud particles inherited and conserved from clastic sedimentary parental rocks or sedimentary deposits.	
<b>Incorporated materials (Im)</b> , those biogenic or abiogenic materials incorporated into the soil by any clastic sedimentation, chemical precipitation accumulation, biogenic productivity and activity, or by diagenetic process that include authigenic materials.	<i>Particles (Ip)</i> : isolated deposition of gravel, sand and mud particles transported by gravity, water or wind; mud materials include clay bond aggregates formed in aerosol, water, cloud and snow, e.g. tropolites and relatives.	
	<i>Juvenile biogenic autochthonous materials (Ijbam)</i> : juvenile biogenic production formed directly or accumulated (corporeal biomineralized materials: shells, bones, pollen, spores among others; corporeal tissues and organs; biodepositional materials (biogenic excretion or exudation); and, materials formed by organism's activities: bioconstructions, and biofoodcaches materials and structures; bioerosion structures; biotools, biominerals, and biodebris materials; coated microbial-chemical materials or structures.	
	<i>Natural liquids and gases materials (Ilnm)</i> : that include "atmospheric water and gas" in their natural state.	
	<i>"Leaked and infilling materials" (Ilm)</i> or younger materials piped down mechanically into the deposits through cavities (burrows or fissures) (Kidwell et al., 1986), and infilling particulate materials (mud-sand-gravel) fine or coarse grained inside of the empty natural space (poral or biological cavities).	
	<i>Authigenic materials (Iam)</i> : any kind of new mineral precipitation that is form or grown inside the soil deposits, include cement and relatives like silicates (quartz, feldspar, layer aluminosilicates, amorphous silica, among others), carbonates, phosphates, iron, manganese, aluminium and titanium oxide and hydroxide, sulfates and salts, nitrates and ammonium, sulphides, borates, and native elements.	
	<i>Weathering alteration materials (Iwam)</i> : those materials formed by weathering transformed-deteriorated process of labile materials (e.g. feldspar, pyroxenes etc.), include layer-clay aluminosilicates minerals (e.g. kaolinite, among others), materials that look like clay particles but are not, they are pseudoparticles.	
	<i>Desiccation-contraction materials and structures (Idcmz)</i> , that include desiccation peoids, mud shrinkage cracks, and crack systems with polygonal pattern by the growth of dolomite and/or evaporite minerals (e.g. Assereto and Kendall, 1971; Bellamy, 1977).	
	<i>Scoured materials and structures (Ismz)</i> caused by swiftly moving water, can scoop out scour holes or irregular erosion surface	
	<i>Ice wedging and/or frost and freezing fissuring materials and structures (Iwffms)</i> , those induced by soil freezing, (e.g. Udden, 1918; Dylík and Maarleveld, 1967; Benedict, 1979).	
	<i>Redistributed inorganic materials and structures (Rdimz)</i> : materials formed by redistribution of layer-clay aluminosilicates minerals (e.g. kaolinite), and coated or flocculated clay aggregates, isolated or structural clay, and fine silt bridging material between grains and clay layers (Kew and Gilkes, 2006).	
<b>Transformed-deteriorated and redistributed materials (Tdrm)</b> , those materials that formed inside the soil by TDR process of original inherited materials.	<i>Bio-redistributed materials and structures (Brdms)</i> : inorganic materials and biological remains mixing, redistributed and deteriorate by biological activity that include remobilization and reorientation of material.	
	<i>Soft deformation and remobilization materials and structures (Jsdms)</i> : deformation, injection and remobilization structures formed in sedimentary deposits by seismic activity (Bohra et al., 2014), or gravity, or fluidification-liquefaction: load casts, tee-shear (ice-push), flame, load, diapiric sand-mud structures, pseudonodule (Macar, 1948), ball-and-pillow structure (Smith, 1916) and relatives.	
	<i>Dissolution and dissolution-collapse materials and structures (Jddms)</i> : obliteration of unstable materials and consequently formation of dissolution structures like, poral and cavities, stylolites and/or collapse pseudobreccias (collapse breccias of Friedman, 1997).	
	<i>Ion remobilization and segregation materials and structures (Jirms)</i> : intrastratal dissolution of unstable materials, with remobilization, segregation and precipitation of materials to form nodules, concretions and relatives	
	<i>Neomorphism materials and structures (Mms)</i> : any kind of mineral that is transformed by chemical recrystallization or mineral inversion or replacement of original materials.	
	<i>Mixed biological and weathering materials and structures (Mxwbms)</i> : any material formed by a mixed biological-weathering process, e.g. microbial-desiccation-weathering materials and structures.	
	<i>Degraded biogenic-organic compounds materials and structures (Dbocms)</i> : materials formed by chemical-biogenic deterioration-reorganization-transformation of organic materials like nucleic acids, proteins, carbohydrates, lignin, lipids and resins, into gases, liquids and solids hydrocarbons and relatives.	



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