## Issue 441: Change the scope note of A5

**DECISION**: The changes CEO proposed in the scope note of A5 Stratigraphic Modification were accepted by the sig, as they reflect the indeterminacy that characterizes the relation btw a genesis and a modification –found across the CRM (base and sci).

The scope note of A5 Stratigraphic Modification changed:

from (old):

**A5 Stratigraphic Modification**

Subclass of: [S18](#_S18_Alteration) Alteration

Scope Note: This class comprises activities or processes resulting in the modification of Stratigraphic Units after their genesis through A4 Stratigraphic Genesis Events.

Examples:

* The Event that eroded the number (1) Stratigraphic Volume Unit in Figure 4 and diminished it to its actual size
* During the excavation at Eagle Cave, Texas, archaeologists found many burrows, about 7 cm in diameter on average, deriving from rodents, lizards, and insects, which have disturbed (A5) the intact layers (A8). [Larsen, M. 2015]
* At the Dutton Paleo-Indian site, Colorado, involutions (flame-structures) due to aquaturbations, caused deformation (A5) of the saturated soil (A8). [Wood & Johnson 1978, pp. 315-380].

In First Order Logic:

 A5(x) ⊃ S18(x)

Properties:

* AP8 disturbed (was disturbed by): A8 Stratigraphic Unit
* AP13 has stratigraphic relation (is stratigraphic relation of): A5 Stratigraphic Modification

to (new):

**A5 Stratigraphic Modification**

Subclass of: [S18](#_S18_Alteration) Alteration

Scope Note: This class comprises activities or processes that create, alter or change instances of A8 Stratigraphic Unit.

Since the distinction between stratigraphic modification and stratigraphic creation is not always clear, stratigraphic modification is regarded as the more generally applicable concept. This implies that some items may be consumed or destroyed in an instance of A5 Stratigraphic Modification, and that others may be produced as a result of it.

Examples:

* The Event that eroded the number (1) Stratigraphic Volume Unit in Figure 4 and diminished it to its actual size
* During the excavation at Eagle Cave, Texas, archaeologists found many burrows, about 7 cm in diameter on average, deriving from rodents, lizards, and insects, which have disturbed (A5) the intact layers (A8). [Larsen, M. 2015]
* At the Dutton Paleo-Indian site, Colorado, involutions (flame-structures) due to aquaturbations, caused deformation (A5) of the saturated soil (A8). [Wood & Johnson 1978, pp. 315-380].

In First Order Logic:

 A5(x) ⊃ S18(x)

Properties:

* AP8 disturbed (was disturbed by): A8 Stratigraphic Unit
* AP13 has stratigraphic relation (is stratigraphic relation of): A5 Stratigraphic Modification