### ISSUE 458: proofreading of the scope notes for P79 through P82.

#### P79 beginning is qualified by

##### NEW

**P79 beginning is qualified by**

Domain: E52 Time-Span

Range: E62 String

Subproperty of: E1 CRM Entity. P3 has note: E62 String

Quantification: many to one (0,1:0,n)

Scope note: This property associates an instance of E52 Time-Span with a note detailing the scholarly or scientific opinions and justifications about the certainty, precision, sources etc of its beginning. Such notes may also be used to elaborate arguments about constraints or to give explanations of alternatives.

Examples:

* + - the time-span of the Holocene (E52) beginning is qualified by “The formal definition and dating of the GSSP (Global Stratotype Section and Point) for the base of the Holocene using the Greenland NGRIP ice core, and selected auxiliary records” (Walker et al 2009) (E62)

In First Order Logic:

P79 (x,y) ⊃ E52 (x)

P79 (x,y) ⊃ E62(y)

P79(x,y) ⊃ P3(x,y)

##### OLD

**P79 beginning is qualified by**

Domain: E52 Time-Span

Range: E62 String

Subproperty of: E1 CRM Entity. P3 has note: E62 String

Quantification: many to one (0,1:0,n)

Scope note: This property associates an instance of E52 Time-Span with a note detailing the scholarly or scientific opinions and justifications about the beginning of this time-span concerning certainty, precision, sources etc. This property may also be used to describe arguments constraining possible dates and to distinguish reasons for alternative dates.

Examples:

* + - the time-span of the Holocene (E52) beginning is qualified by “The formal definition and dating of the GSSP (GlobalStratotype Section and Point) for the base of theHolocene using the Greenland NGRIP ice core,and selected auxiliary records” (E62)

In First Order Logic:

P79 (x,y) ⊃ E52 (x)

P79 (x,y) ⊃ E62(y)

P79(x,y) ⊃ P3(x,y)

#### P80 end is qualified by

##### NEW

**P80 end is qualified by**

Domain: E52 Time-Span

Range: E62 String

Subproperty of: E1 CRM Entity. P3 has note: E62 String

Quantification: many to one (0,1:0,n)

Scope note: This property associates an instance of E52 Time-Span with a note detailing the scholarly or scientific opinions and justifications about the certainty, precision, sources etc of its end. Such notes may also be used to elaborate arguments about constraints or to give explanations of alternatives.

Examples:

* + - the time-span of the Holocene (E52) end is qualified by “still ongoing” (E62)

In First Order Logic:

P80(x,y) ⊃ E52(x)

P80(x,y) ⊃ E62(y)

P80(x,y) ⊃ P3(x,y)

##### OLD

**P80 end is qualified by**

Domain: E52 Time-Span

Range: E62 String

Subproperty of: E1 CRM Entity. P3 has note: E62 String

Quantification: many to one (0,1:0,n)

Scope note: This property associates an instance of E52 Time-Span with a note detailing the scholarly or scientific opinions and justifications about the end of this time-span concerning certainty, precision, sources etc. This property may also be used to describe arguments constraining possible dates and to distinguish reasons for alternative dates.

Examples:

* + - the time-span of the Holocene (E52) end is qualified by “still ongoing” (E62)

In First Order Logic:

P80(x,y) ⊃ E52(x)

P80(x,y) ⊃ E62(y)

P80(x,y) ⊃ P3(x,y)