# Issue 621 55th SIG Meeting

The SIG reviewed HW by CEO, GH, AF & MK (changes in CRMarchaeo to keep the model in sync with CRMbase v7.1.2 and CRMsci 2.0).

**Summary of decisions**

* Declare AP4 produced surface a subproperty of P108 has produced
* Link the Allen properties with temporal primitive properties (P173-P176 & PP182-P185)
* Admitting examples for AP29 appears in, AP30 restricted to, AP31 typical for

The details of the discussions and the decisions can be found below. They have been implemented in CRMarchaeo v2.0

(Link to document [here](https://cidoc-crm.org/ModelVersion/crmarchaeo-version-2.0)).

## Declare AP4 produced surface a subproperty of P108 has produced

Since A1 Excavation Process Unit is a subclass of E12 Production, *AP4 produced surface*, is also declared a subproperty of *P108 has produced*.

**Decision**: make *AP4 produced surface* a subproperty of *P108 has produced*

## Allen properties to be linked with temporal properties P173-P176 and P182-P185.

It is proposed that:

* *AP22 is equal in time to* correlates with:
  1. P175 starts before or with the start of (starts after or with the start of)
  2. P175i starts after or with the start of (starts before or with the start of)
  3. P184 ends before or with the end of (ends with or after the end of)
  4. P184i ends with or after the end of (ends before or with the end of)
     + The Allen property needs to be correlated with two CRMbase temporal properties, given that the latter only mark the beginning or the final end-point of a temporal interval, where as equals in time marks two end points.
* *AP23 finishes* correlates with:
  1. P176i starts after the start of (starts before the start of)
  2. P184 ends before or with the end of (ends with or after the end of)
  3. P184i ends with or after the end of (ends before or with the end of)
* *AP24 starts* correlates with:
  1. P175 starts before or with the start of (starts after or with the start of)
  2. P175i starts after or with the start of (starts before or with the start of)
  3. P185 ends before the end of (ends after the end of)
* *AP25 occurs during* correlates with:
  1. P176i starts after the start of (starts before the start of)
  2. P185 ends before the end of (ends after the end of)
* *AP26 overlaps in time with* correlates with:
  1. P174i ends after the start of (starts before the end of)
  2. P176 starts before the start of (starts after the start of)
  3. P185 ends before the end of (ends after the end of)
* *AP27 meets in time with* correlates with:
  1. P173i ends with or after the start of (starts before or at the end of)
  2. P182 ends before or with the start of
* *AP28 occurs before* correlates with:
  1. P183 ends before the start of (starts after the end of)

The SIG accepted the proposed changes.

## Admitting examples for AP29 appears in, AP30 restricted to and AP31 typical for

* **AP29 appears in**: The “Cycladic” figurine type (E55) appears in the Early Cycladic period (E4). (Sotirakopoulou 2005, 50-51)
* **AP30 is restricted to:** The “Phylakopi I” or “Ayia Irini” type (E55) [of cycladic figurines] *is restricted to* the Early Cycladic III period (E4). (Sotirakopoulou 2005, 50-51)
* **AP31 typical for:** The “violin-shaped” type (E55) [of cycladic figurines] is *typical for* the Early Cycladic I period (E4). (Sotirakopoulou 2005, 50-51)