SILK RULES

This document contains the free text descriptions of the SILK sameAs rules, as they were created after inspecting the context of the sources WoRMS, DBpedia, Ecoscope, FLOD and Fishbase. The related xml files, that can be provided as input to MaTWare can be found at: http://www.ics.forth.gr/isl/MarineTLO/files/SILK_rules.zip

Rule 1

If an Ecoscope individual’s attribute `wormsId` is the same with the integer part of a WoRMS individual’s attribute `hasTaxonId` then these two individuals are the same.

e.g. Thunnus_Albacares
    Ecoscope wormsId: 127027
    WoRMS hasTaxonId: WoRMS:127027

Silk language expression:

```xml
<LinkageRule>
  <Compare weight="1" threshold="0.0" required="false" metric="equality" id="Compare">
    <TransformInput function="tokenize" id="Tokens">
      <Input path="?b/worm:hasTaxonId" id="wormsId"></Input>
    </TransformInput>
    <Input path="?a/ecos:wormsId" id="ecoWormsId"></Input>
  </Compare>
</LinkageRule>
```
**Rule 2**

If an Ecoscope individual’s attribute *preflabel* in lower case is the same with the attribute *label* of a FLOD individual then these two individuals are the same.

*E.g.* Thunnus_Albacares  
Ecoscope preflabel: Thunnus albacares  
FLOD label: “thunnus albacares”@la

**Rule 3**

If a FLOD individual's tokenized, using “,” label is the same with a dbpedia individual's binomial, in lower case, then these 2 individuals are the same.

*E.g.* Thunnus_Albacares  
FLOD label: “thunnus albacares”@la  
DBpedia binomial: Thunnus albacares

**Rule 4**

If a FLOD individual's tokenized using “,” label is the same with a WoRMS tokenized using /, in lower case, without _, individual's URI then these 2 individuals are the same.

*E.g.* Thunnus_Albacares  
FLOD label: “thunnus albacares”@la  
WoRMS URI:  
http://www.marinespecies.org/entity#WoRMS:127027/Thunnus_albacares

**Rule 5**

If a dbpedia individual's binomial attribute, in lower case, is the same with a WoRMS tokenized using /, in lower case, without _, individual's URI then these 2 individuals are the same.

*E.g.* Thunnus_Albacares  
DBpedia binomial: Thunnus albacares  
WoRMS URI:  
http://www.marinespecies.org/entity#WoRMS:127027/Thunnus_albacares
Rule 6

If an Ecoscope individual’s attribute *preflabel* in lower case is the same with a Fishbase tokenized using #, without _, individual's URI then these 2 individuals are the same.

*e.g.* Thunnus_Albacares

- Ecoscope preflabel: Thunnus albacares
- Fishbase URI:
  - http://www.fishbase.org/entity#thunnus_albacares

Rule 7

If WoRMS individual’s URI, tokenized using “/”, in lower case, without _, is the same with a Fishbase tokenized using “#”, without _, individual's URI then these 2 individuals are the same.

*e.g.* Thunnus_Albacares

- WoRMS URI:
  - http://www.marinespecies.org/entity#WoRMS:127027/Thunnus_albacares
- Fishbase URI:
  - http://www.fishbase.org/entity#thunnus_albacares

Rule 8

If the attribute latin *label* of a FLOD individual is the same with a Fishbase tokenized using “#”, without _, individual's URI then these 2 individuals are the same.

*e.g.* Thunnus_Albacares

- FLOD label: “thunnus albacares”@la
- Fishbase URI:
  - http://www.fishbase.org/entity#thunnus_albacares