

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:

```
<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>
    <Param name="regex" value=":"></Param>
  </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 prelabel: 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 *prelabel* 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 prelabel: 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