

**From:** Emmanuel Blondel (GMAIL)  
**Sent:** Tuesday, 12 December, 2017 12:35 AM  
**Subject:** RE: Identifying similar GRSF records

Hi Aureliano,

Some clarifications:

- touching (exact adjacency) means intersecting, but not overlapping (% overlap = 0), so intersecting doesn't always mean overlapping
- overlapping always means intersecting, and no adjacency

Some specific notes below for the examples you highlight.

As summary:

- Examples 1 and 3 are ok from geo-service viewpoint:
- Example 2 is not OK from geo-service viewpoint, and this highlights a limitation of the actual service based on bounding boxes where some areas separated by land may have their bounding box slightly overlapping. I need to think in a control to add in the service.
- Example 3 is not OK from sparql, while geo-service is OK. Don't know why you get an overlap, from service I get overlapping=false

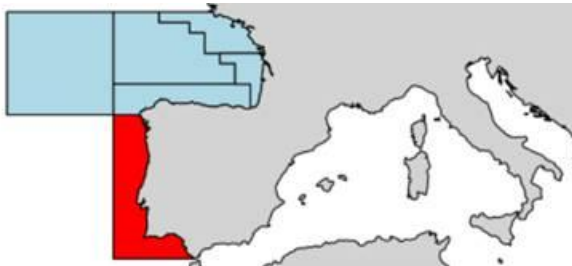
Example 1:

<a href="http://www.bluebridge-vres.eu/grsf/stock/asfis:ane+fao:27.8.a;fao:27.8.b;fao:27.8.c;fao:27.8.d;fao:27.8.e">http://www.bluebridge-vres.eu/grsf/stock/asfis:ane+fao:27.8.a;fao:27.8.b;fao:27.8.c;fao:27.8.d;fao:27.8.e</a>	<a href="http://www.cidoc-crm.org/cidoc-crm/is_similar_with_w2">http://www.cidoc-crm.org/cidoc-crm/is_similar_with_w2</a>	<a href="http://www.bluebridge-vres.eu/grsf/stock/asfis:ane+fao:27.9.a">http://www.bluebridge-vres.eu/grsf/stock/asfis:ane+fao:27.9.a</a>
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Bounding boxes are: -18,43, -0.5399,48.0001 / 11,36, -5.61,43

Request: [Link](#); I get touching = true, intersecting = true (because exact touching), overlapping = false, overlap = 0

Preview:



Result is OK

```
<result>
  <binding name="s"><uri>http://www.bluebridge-vres.eu/grsf/stock/asfis:ane+fao:27.8.a;fao:27.8.b;fao:27.8.c;fao:27.8.d;fao:27.8.e</uri></binding>
  <binding name="p"><uri>http://www.cidoc-crm.org/cidoc-crm/is\_similar\_with\_w2</uri></binding>
  <binding name="o"><uri>http://www.bluebridge-vres.eu/grsf/stock/asfis:ane+fao:27.9.a</uri></binding>
  <binding name="why"><literal>adjacent areas and same species</literal></binding> => TOUCHING = TRUE
</result>
<result>
  <binding name="s"><uri>http://www.bluebridge-vres.eu/grsf/stock/asfis:ane+fao:27.8.a;fao:27.8.b;fao:27.8.c;fao:27.8.d;fao:27.8.e</uri></binding>
  <binding name="p"><uri>http://www.cidoc-crm.org/cidoc-crm/is\_similar\_with\_w3</uri></binding>
  <binding name="o"><uri>http://www.bluebridge-vres.eu/grsf/stock/asfis:ane+fao:27.9.a</uri></binding>
  <binding name="why"><literal>related areas and same genus</literal></binding> => INTERSECTING = TRUE
```

</result>

Example 2:

<a href="http://www.bluebridge-vres.eu/grsf/stock/asfis:ane+fao:27.8.a;fao:27.8.b;fao:27.8.c;fao:27.8.d;fao:27.8.e">http://www.bluebridge-vres.eu/grsf/stock/asfis:ane+fao:27.8.a;fao:27.8.b;fao:27.8.c;fao:27.8.d;fao:27.8.e</a>	<a href="http://www.cidoc-crm.org/cidoc-crm/is_similar_with_w3">http://www.cidoc-crm.org/cidoc-crm/is_similar_with_w3</a>	<a href="http://www.bluebridge-vres.eu/grsf/stock/asfis:ane+gfc:6">http://www.bluebridge-vres.eu/grsf/stock/asfis:ane+gfc:6</a>
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Bounding boxes are: -18,43, -0.5399,48.0001 / -2.2477,37,6,43.1663

Request: [Link](#) I get touching = false, intersecting = true (because with an overlap), overlapping = true, overlap = 0.5336 (max % of overlap)

Preview:



Result is not OK, this is typically an exception where bounding boxes are not enough. In this case 2 limitations are involved: the bounding box and the fact we also use an approximation of FAO areas not cut by land for FIRMS geo-processing (otherwise processes would be much more time-consuming). Real bounding boxes do not overlap, but it could even occur. I will think in some way to cross-check overlap area is not over land as double check, in case overlap is fully within land, to ignore it. ASAP I will report on that.

<result>

<binding name="s"><uri><http://www.bluebridge-vres.eu/grsf/stock/asfis:ane+fao:27.8.a;fao:27.8.b;fao:27.8.c;fao:27.8.d;fao:27.8.e></uri></binding>  
<binding name="p"><uri>[http://www.cidoc-crm.org/cidoc-crm/is\\_similar\\_with\\_w1](http://www.cidoc-crm.org/cidoc-crm/is_similar_with_w1)</uri></binding>  
<binding name="o"><uri><http://www.bluebridge-vres.eu/grsf/stock/asfis:ane+gfc:6></uri></binding>  
<binding name="why"><literal>**overlapping areas and same species**</literal></binding>

</result>

<result>

<binding name="s"><uri><http://www.bluebridge-vres.eu/grsf/stock/asfis:ane+fao:27.8.a;fao:27.8.b;fao:27.8.c;fao:27.8.d;fao:27.8.e></uri></binding>  
<binding name="p"><uri>[http://www.cidoc-crm.org/cidoc-crm/is\\_similar\\_with\\_w3](http://www.cidoc-crm.org/cidoc-crm/is_similar_with_w3)</uri></binding>  
<binding name="o"><uri><http://www.bluebridge-vres.eu/grsf/stock/asfis:ane+gfc:6></uri></binding>  
<binding name="why"><literal>**related areas and same genus**</literal></binding>

</result>

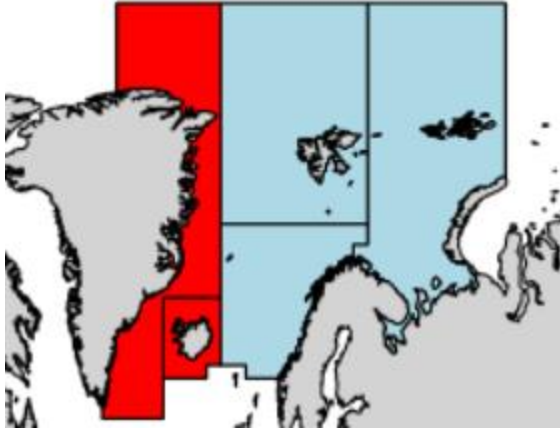
Example 3:

<a href="http://www.bluebridge-vres.eu/grsf/stock/asfis:reb+fao:27.1;fao:27.2.a;fao:27.2.b">http://www.bluebridge-vres.eu/grsf/stock/asfis:reb+fao:27.1;fao:27.2.a;fao:27.2.b</a>	<a href="http://www.cidoc-crm.org/cidoc-crm/is_similar_with_w2">http://www.cidoc-crm.org/cidoc-crm/is_similar_with_w2</a>	<a href="http://www.bluebridge-vres.eu/grsf/stock/asfis:reb+fao:27.14;fao:27.5.a">http://www.bluebridge-vres.eu/grsf/stock/asfis:reb+fao:27.14;fao:27.5.a</a>
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Bounding boxes: -11,61.9959,68.5,89.99 / -44,59,-11,89.99

Request: [Link](#); I get touching = true, intersecting = true, overlapping = false, overlap = 0

Preview:



Result of geo-service is ok, but I don't know why you get overlapping in the sparql result, you shouldn't.

```
<result>
  <binding name="s"><uri>http://www.bluebridge-
vres.eu/grsf/stock/asfis:reb+fao:27.1;fao:27.2.a;fao:27.2.b</uri></binding>
  <binding name="p"><uri>http://www.cidoc-crm.org/cidoc-crm/is\_similar\_with\_w1</uri></binding>
  <binding name="o"><uri>http://www.bluebridge-
vres.eu/grsf/stock/asfis:reb+fao:27.14;fao:27.5.a</uri></binding>
  <binding name="why"><literal>overlapping areas and same species</literal></binding>
</result>
<result>
  <binding name="s"><uri>http://www.bluebridge-
vres.eu/grsf/stock/asfis:reb+fao:27.1;fao:27.2.a;fao:27.2.b</uri></binding>
  <binding name="p"><uri>http://www.cidoc-crm.org/cidoc-crm/is\_similar\_with\_w2</uri></binding>
  <binding name="o"><uri>http://www.bluebridge-
vres.eu/grsf/stock/asfis:reb+fao:27.14;fao:27.5.a</uri></binding>
  <binding name="why"><literal>adjacent areas and same species</literal></binding>
</result>
<result>
  <binding name="s"><uri>http://www.bluebridge-
vres.eu/grsf/stock/asfis:reb+fao:27.1;fao:27.2.a;fao:27.2.b</uri></binding>
  <binding name="p"><uri>http://www.cidoc-crm.org/cidoc-crm/is\_similar\_with\_w3</uri></binding>
  <binding name="o"><uri>http://www.bluebridge-
vres.eu/grsf/stock/asfis:reb+fao:27.14;fao:27.5.a</uri></binding>
  <binding name="why"><literal>related areas and same genus</literal></binding>
</result>
```

Cheers  
Emmanuel