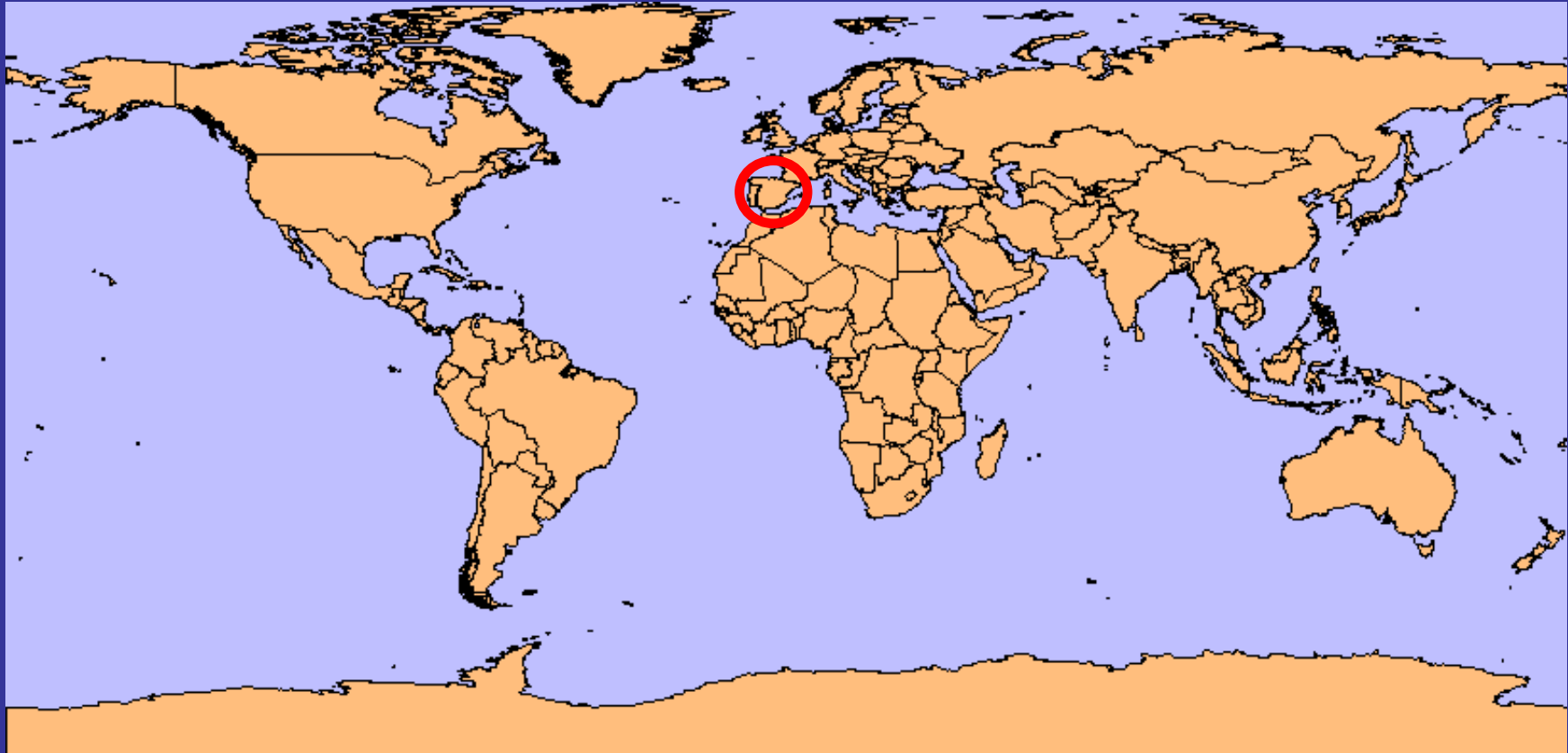


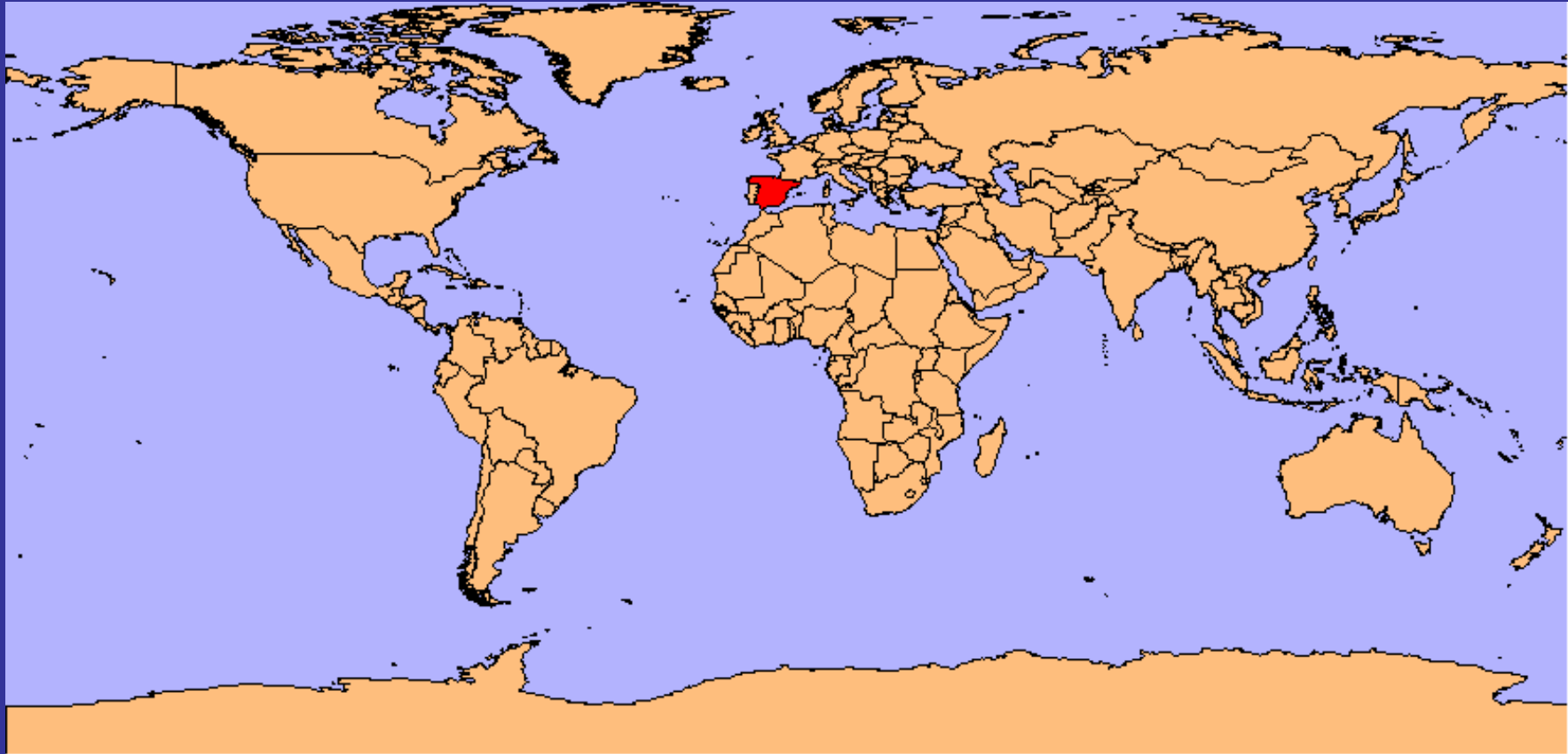
Georepresenting

Pablo Sastre Olmos

HerpNet/GBIF Georeferencing Workshop 2006



Spain / Europe



GIS Layer "Country-polygon": Num. / **Cont-Ocea** / **Country**

Collection Database: Num. / Sps / ... / **Cont-Ocea** / **Country**

} **Europe / Spain**

Canary Islands / Spain / Africa



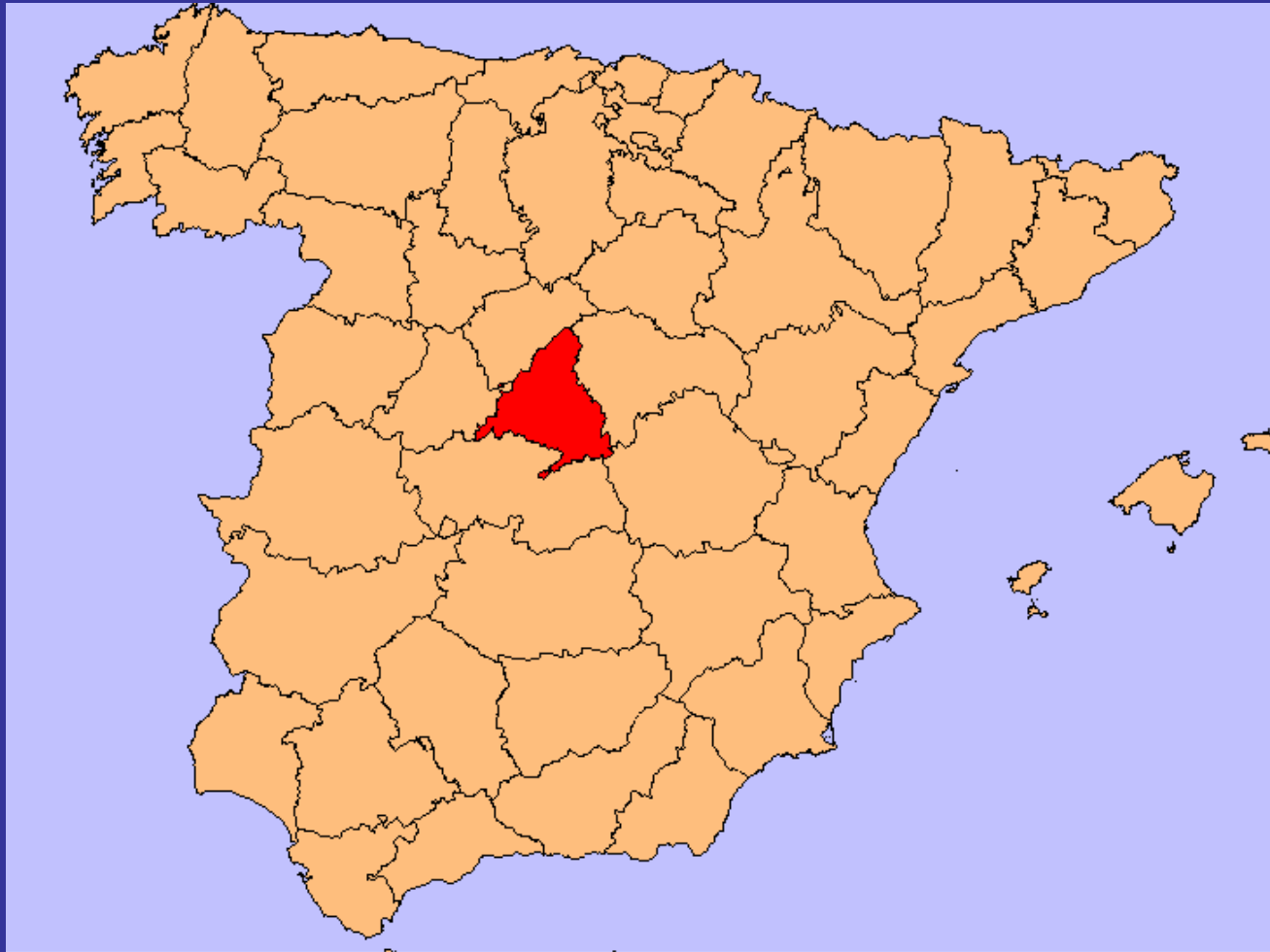
GIS Layer “Archipelago-circle”: Num. / **Archipelago**

Africa / Spain /
Canary Islands

Collection Database: Num. / Sps / ... / Cont-Ocea / Country / **Archipelago**

Extent

Madrid / Spain



GIS Layer "Provinces-Spain-polygon": Num. / **State-Province** } Spain / **Madrid**
Collection Database: Num. / Sps / ... / Country / **State-Province** }

Uncertainty

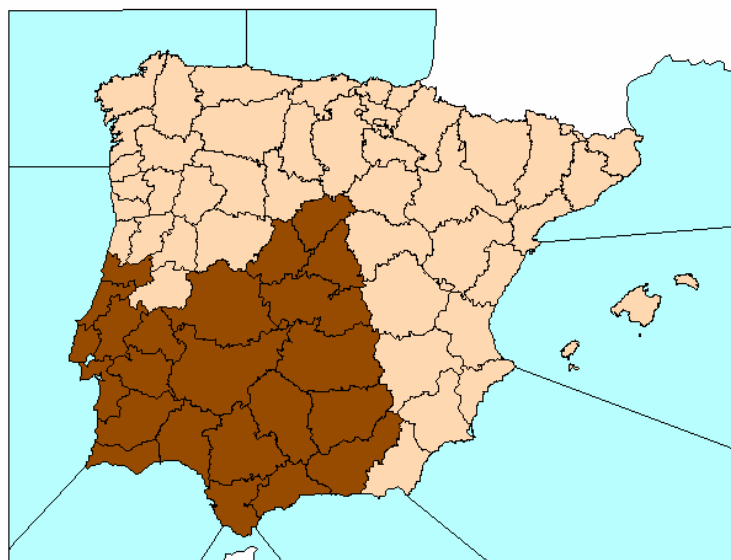
Madrid / Spain



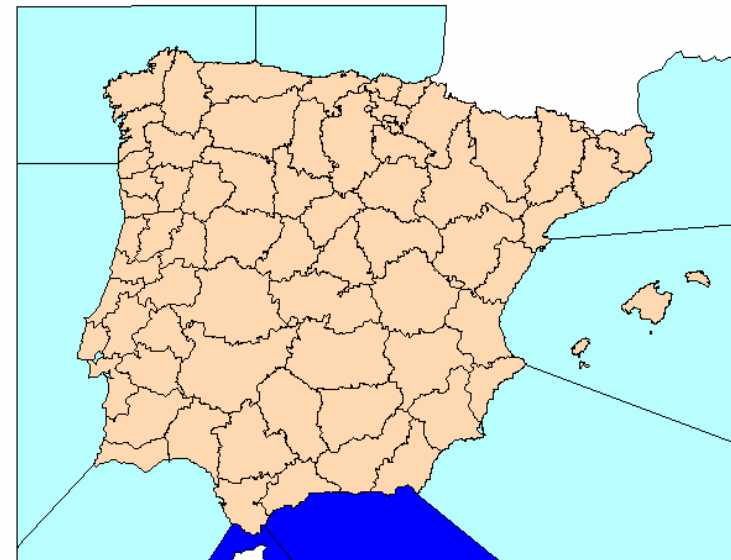
GIS Layer "Provinces-Spain-polygon": Num. / **State-Province (=Madrid)**

GIS Functions / Distance operators / **Buffer**





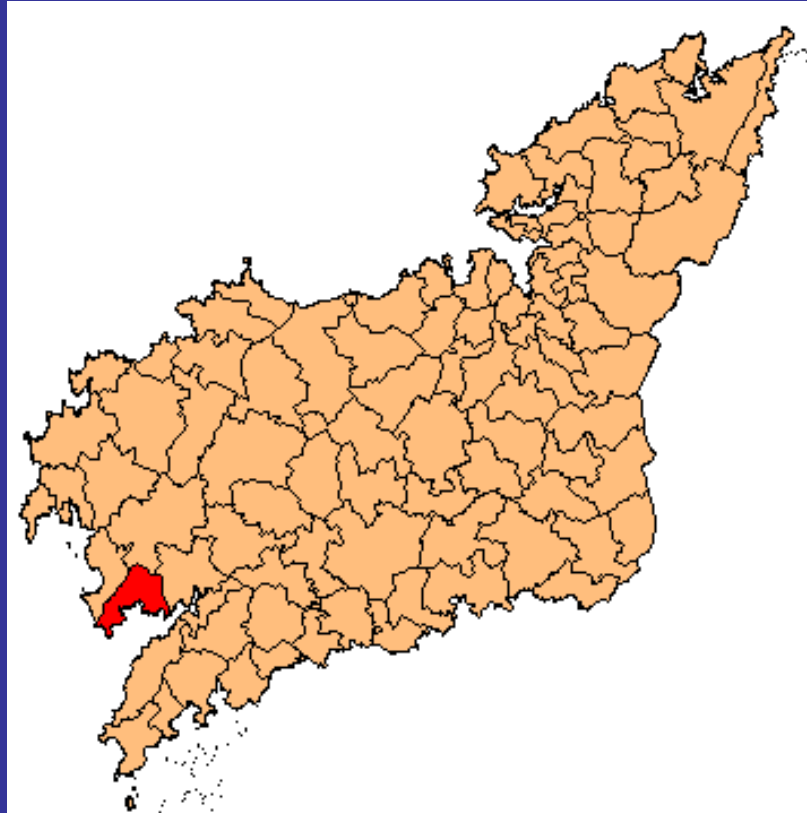
Triturus pygmaeus



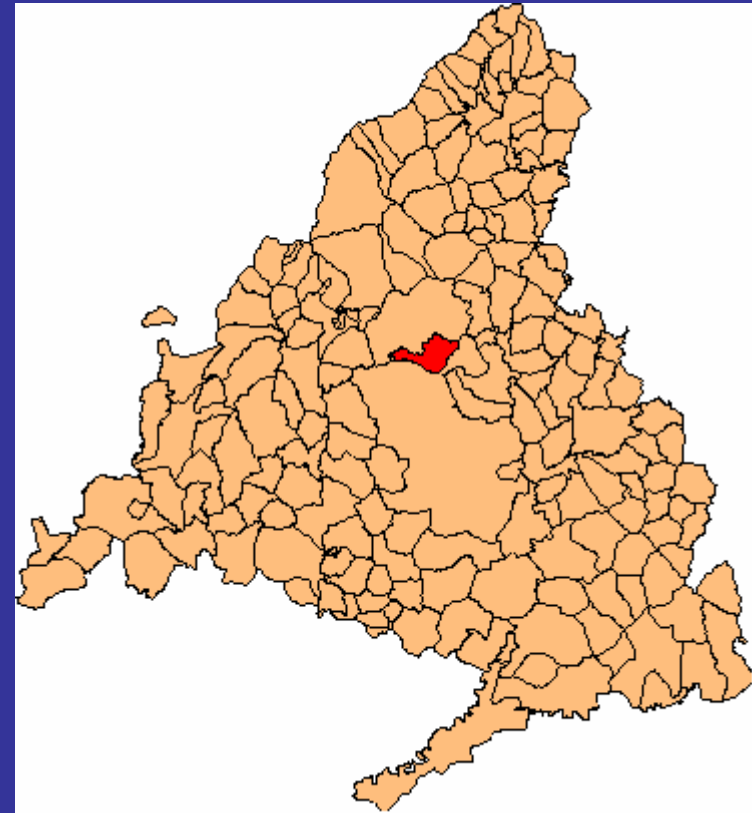
Patella ferruginea

Named places - County

Muros / A Coruña / Galicia



Tres Cantos / Madrid

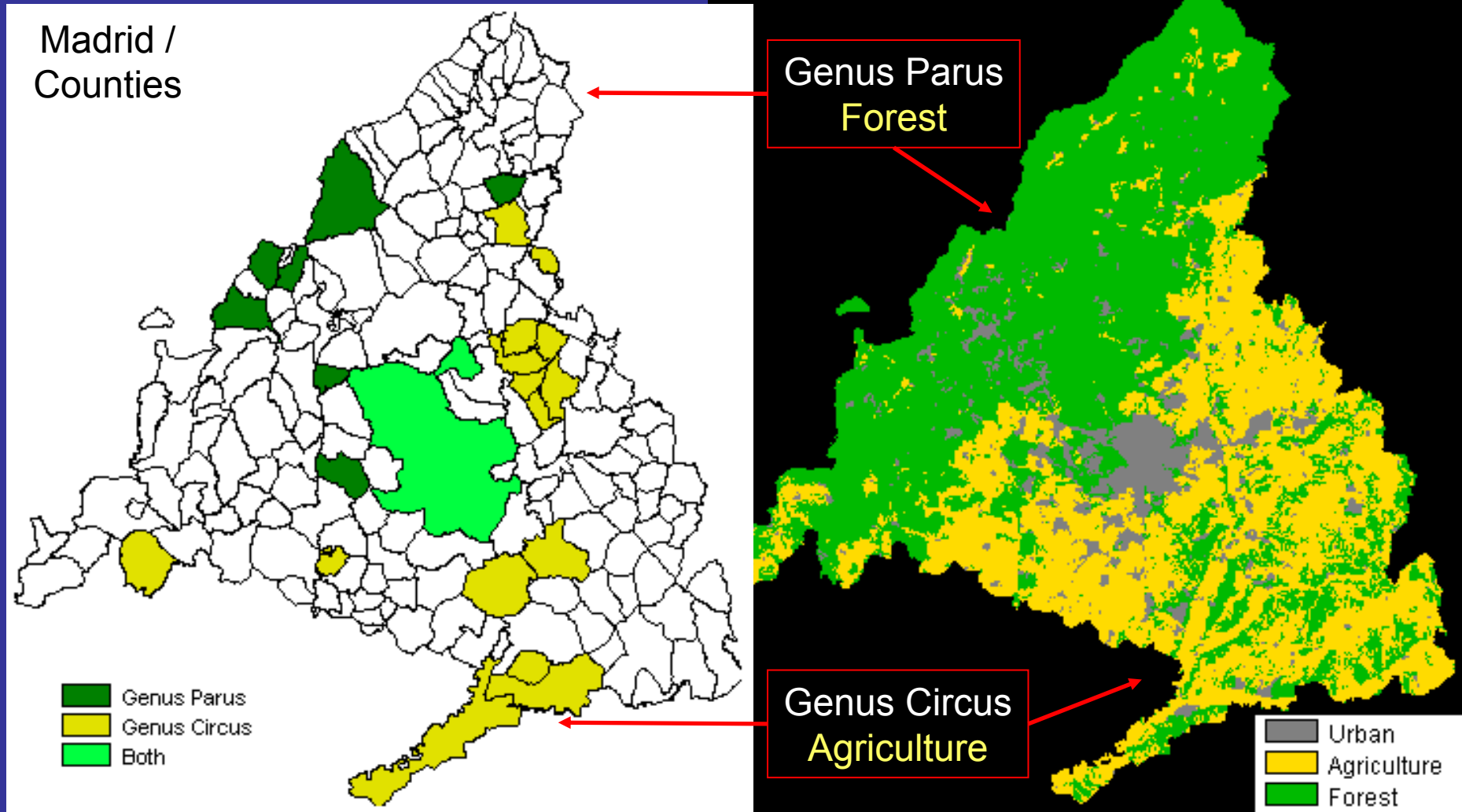


A Coruña /
Muros

GIS Layer "Counties-Spain-polygon": Num. / **County**

Madrid /
Tres Cantos

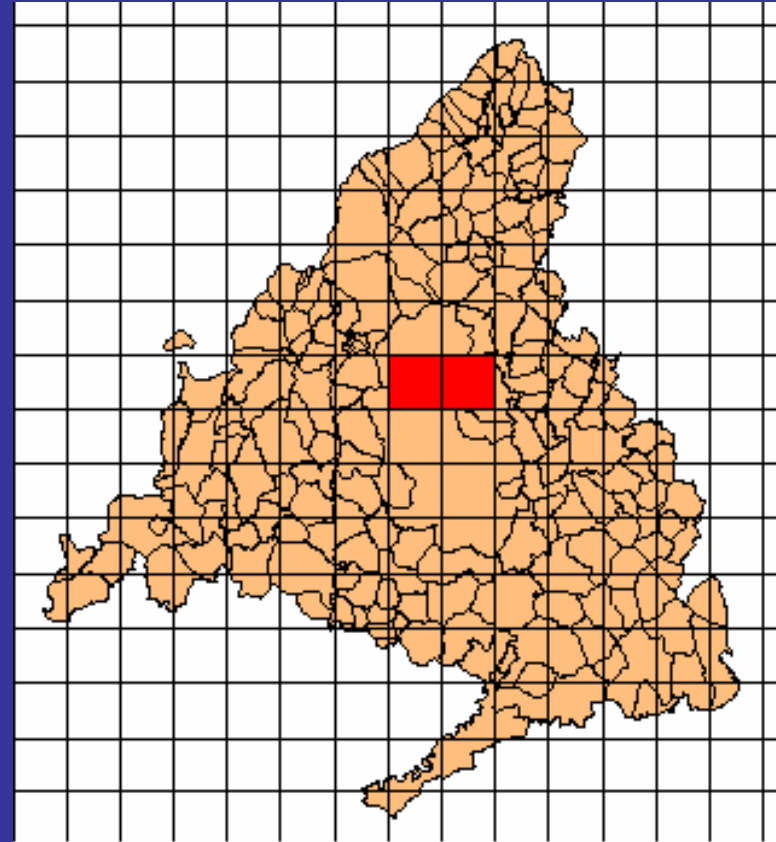
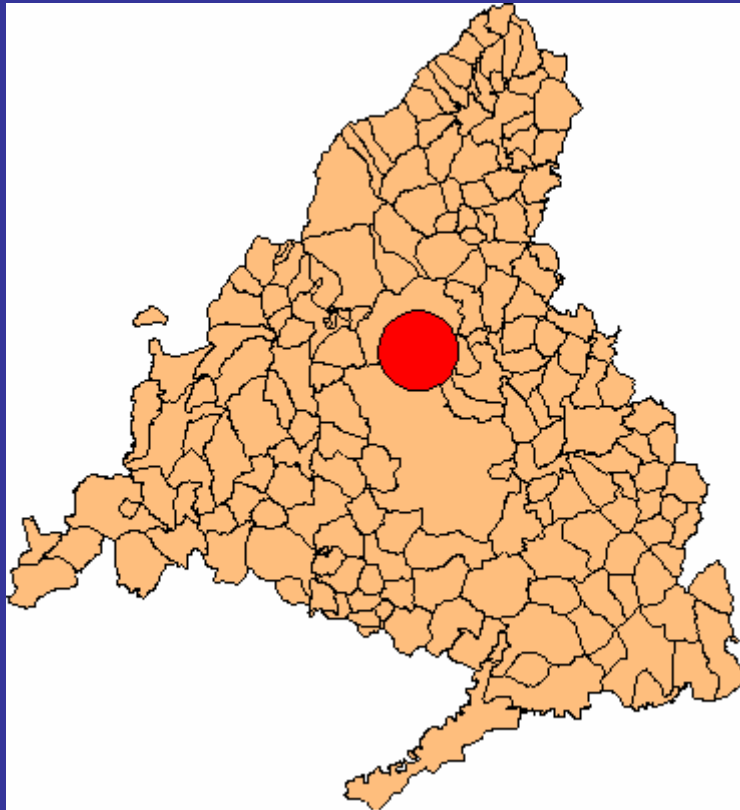
Collection Database: Num. / Sps / ... / State-Province / **County**



Birds Colection – Spanish Museum of Natural Sciences (MNCN-CSIC)

Circles or Squares ?

Tres Cantos / Madrid



GIS Layer "Counties-Spain-UTMx10":

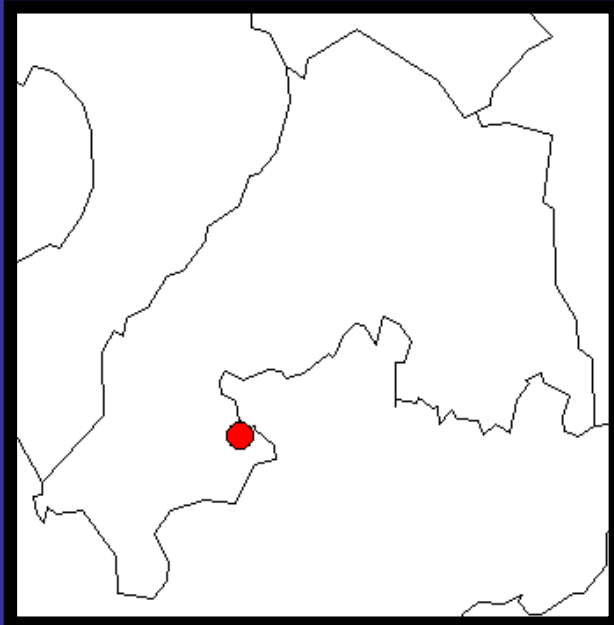
Num. / **UTMx10** / **County**

Madrid /
Tres Cantos

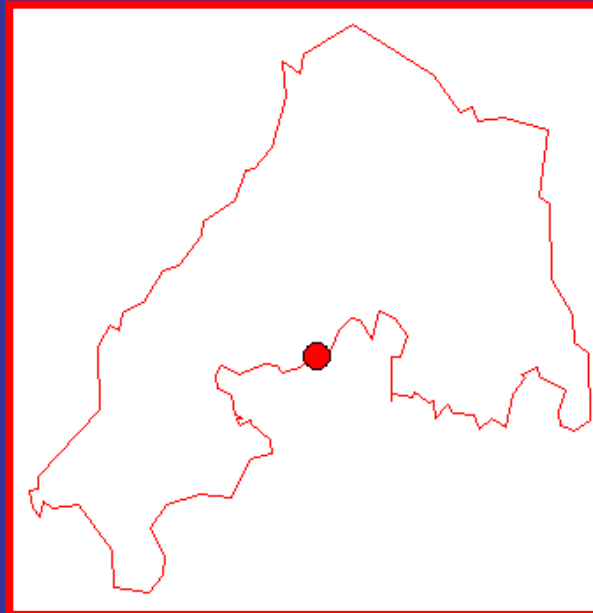
Collection Database: Num. / Sps / ... / State-Province / **County**

... or Points ?

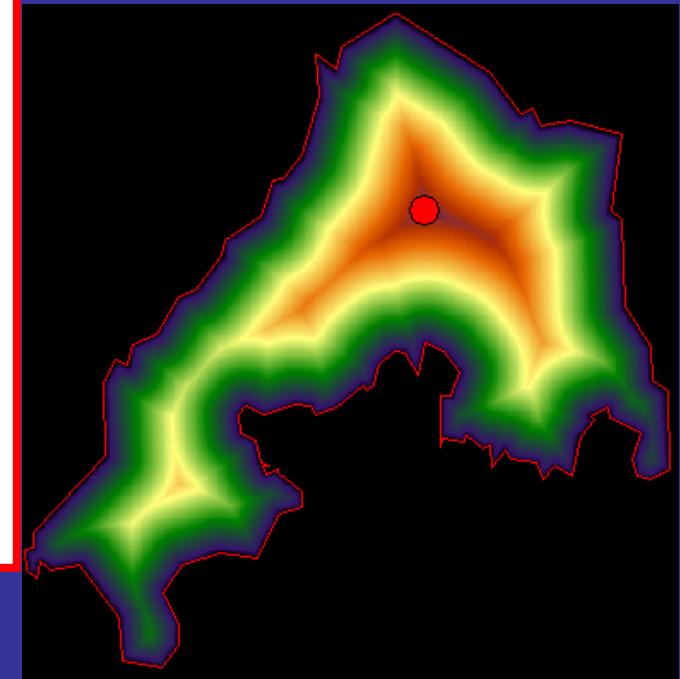
Muros / A Coruña /
Galicia / Spain



Urban centre
(coordinates of the
main city centre)



Centroid (average
polygon coordinates)



Geometric centre
(coordinates of the furthest
point from polygon border)

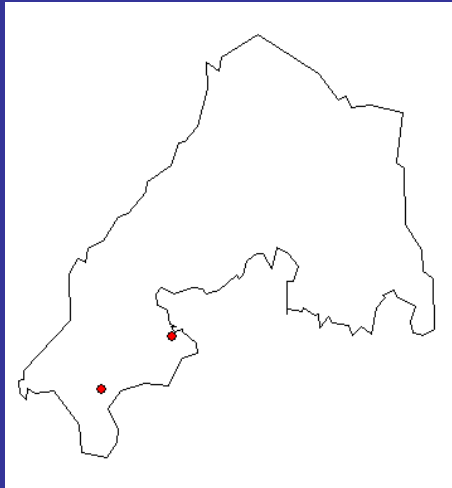
GIS Layer "Counties-Spain-GeometricPoint":
Num. / ... / State-Province / **County**

Collection Database:
Num. / Sps / ... / State-Province / **County**

A Coruña / **Muros**

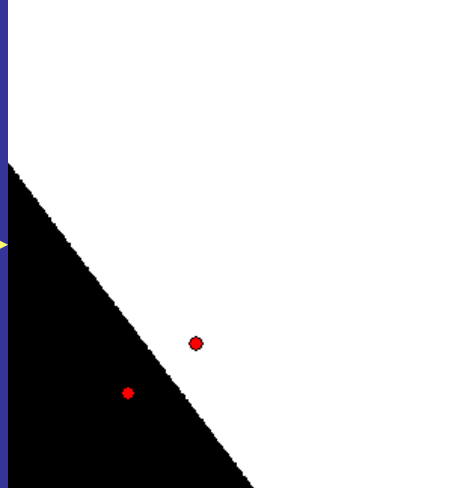
Named places - Specific locality

Louro / Muros / A Coruña / Galicia / Spain



Localities nearby

Thiessen polygons (Voronoi)

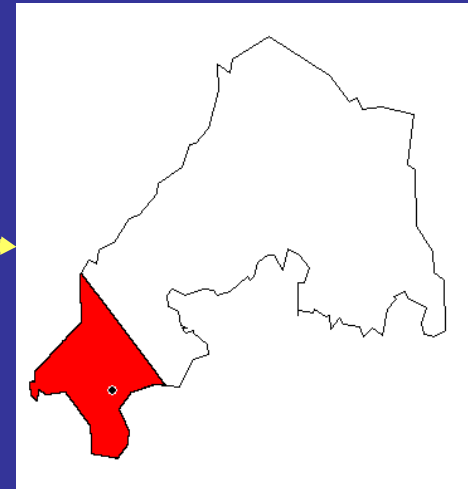


Closer to Louro



Muros county

A Coruña / Muros /
Louro



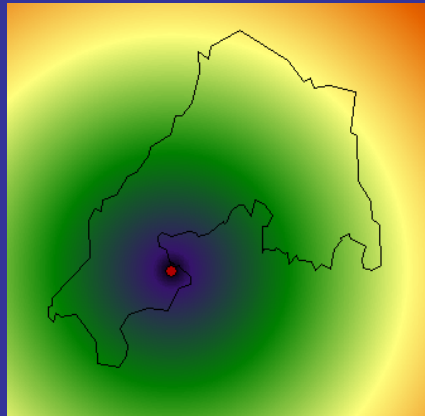
Generalization

GIS Layer "DetailedLocalities": Num. / **Locality**

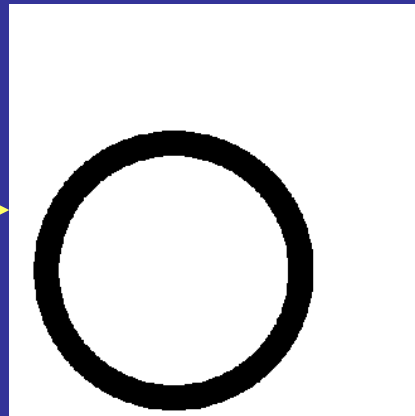
Collection Database: Num. / Sps / ... / Cont-Ocea / ... / **Locality**

Offsets

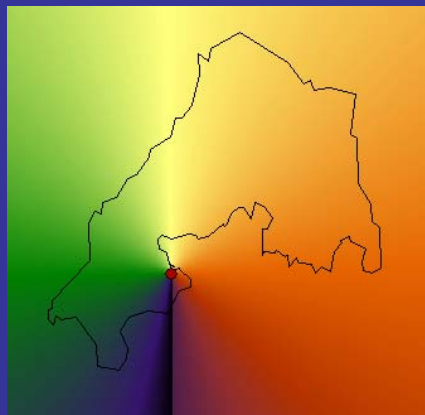
5 Km North from Muros (Muros / A Coruña / Galicia / Spain)



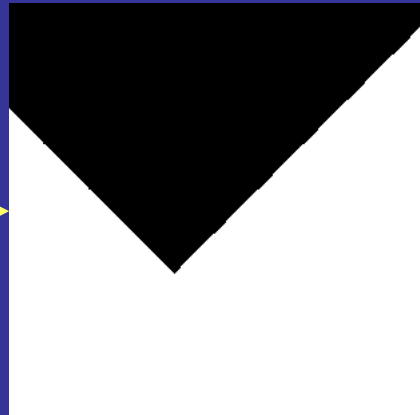
Distance



5 Km (± 0.5) from Muros

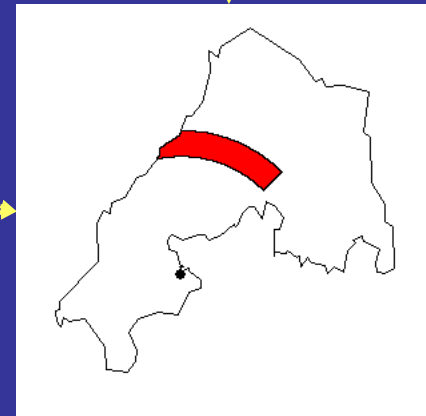


Aspect



North from Muros

Muros county



5 Km North from Muros

Generalization

GIS Layer "Offsets": Num. / **Offset**

Collection Database: Num. / Sps / ... / Cont-Ocea / ... / **Offset**