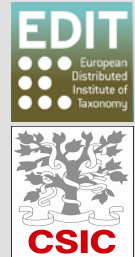


# Enhancing the visualization of biological data: EDIT Geographic tools

Roca, P.<sup>1</sup>; Sastre, P.<sup>1</sup>; Lobo, J.M.<sup>1</sup>; Meganck, B.<sup>2</sup>; Theeten, F.<sup>2</sup>; Mergen P.<sup>2</sup>; Müller, A.<sup>3</sup>; Kohlbecker, A.<sup>3</sup>; Dusan S.<sup>4</sup>; Mikiewicz D.<sup>5</sup>

<sup>1</sup> Museo Nacional de Ciencias Naturales (CSIC), <sup>2</sup> Royal Museum for Central Africa (RMCA), <sup>3</sup> Botanical Garden and Botanical Museum (BGBM),

<sup>4</sup> Institute of Botany, Slovakian Academy of Sciences (IBSAS), <sup>5</sup> Hungarian Museum of Natural History (HNHM)

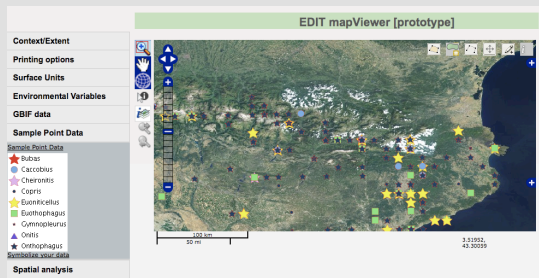


## EDIT mapViewer



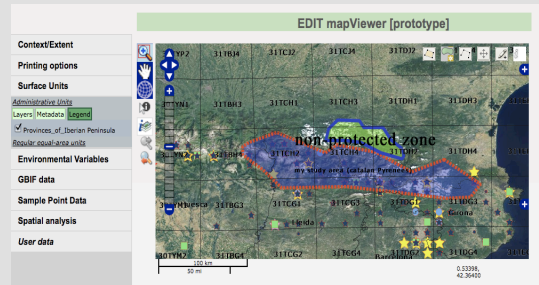
aims to provide taxonomists an easy-to-use webapplication to visualize, filter, symbolize, print and analyze their own point data  
<http://edit.csic.es/geo/mapviewer/edit.html>

Upload, symbolize and query your point data

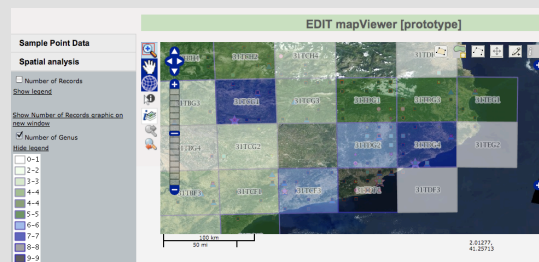


Add extra geographic information to your map, including on-screen digitized polygons

Get your maps at different resolutions and in different formats (TIFF, JPEG, PNG, GIF...)



Perform basic spatial analysis, browse and visualize GBIF density data



## CORE EDIT GeoTools



publishes data from any major spatial data source using open standards



allows postgresQL to be used as a backend spatial database for geographic information systems (GIS)



server-side work, including the generation of images to download



non-profit organization leading the development of standards for geospatial services

all the tools are Open Source

## EDIT mapViewer tools



Open Source map viewing library, written in pure JavaScript



JavaScript library designed to change the way that you write Javascript.

jQuery plugins

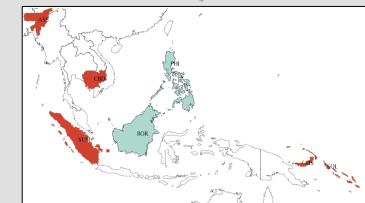
-farbtastic  
-jqModal  
-flot

## mapREST services

Integrate clear colourful maps into your own website or application.  
Choose data sources and adapt colour, symbology, extent and line types to fully customise your map.

You construct the URL, we provide you a map image

[http://edit.csic.es/v1/areas.php?l=earth&ad=tdwg3:a:PHI,VAN,BOR|b:BIS,SUM,CBD,SOL,ASS&as=a:8dd3c7,1|b:e91f16,5be166,1,1\\_2&ms=800&label=1](http://edit.csic.es/v1/areas.php?l=earth&ad=tdwg3:a:PHI,VAN,BOR|b:BIS,SUM,CBD,SOL,ASS&as=a:8dd3c7,1|b:e91f16,5be166,1,1_2&ms=800&label=1)



In this example, TDWG level 3 has been symbolized with the parameters defined in "a" and "b" style. Each style has associated a list of TDWG level 3 codes. You can find the mapREST API in <http://dev.e-taxonomy.eu/trac/wiki/MapRestServiceApi>

Some EDIT Data Portals already use this service to show their data:

-<http://dev.e-taxonomy.eu/dataportal/palmae/>  
-<http://dev.e-taxonomy.eu/dataportal/cichorieae/>  
-<http://dev.e-taxonomy.eu/dataportal/diptera/>

Also a mapREST service is ready for plotting point data. We only need the coordinates, you define your symbology... that's all!

ATBI Mercantour website already uses this service:  
-[http://www.atbi.eu/mercantour-maritime/?q=node/13&tree\\_s=755](http://www.atbi.eu/mercantour-maritime/?q=node/13&tree_s=755)