



Project no. 018340

Project acronym: EDIT

Project title: Toward the European Distributed Institute of Taxonomy

Instrument: Network of Excellence

Thematic Priority: Sub-Priority 1.1.6.3: "Global Change and Ecosystems"

C5.073 Workshop with WP7 contributors to geo-platform to review geo-platform functionality

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Dissemination Level		
PU	Public	X
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

This report presents the key conclusions from the discussions with WP7 and other contributors to the EDIT geoplatform. To have input of the widest community a specific workshop was not organized. But demos and question answers sessions were organized during the 2009 Biodiversity Information Standards Annual meeting in Montpellier (9th to the 13th November 2009, working session “EDIT tutorial for users (e.g. Taxonomic Editor, specimen search, Geo-tools”). Additionally a demo and question-answer session was also organized at the EDIT General Meeting in December 2009, Portugal. It has been compiled by Marcin Gašior (MIIZPAN) with a generous input from Pere Roca Ristol (CSIC), Patricia Mergen (RMCA) and the colleagues from the EDIT developer mailing list.

Introduction

TDWG (Taxonomic Database Working Group also know as Biodiversity Information Standards) Annual Conference was among other things an opportunity to present current state of work on the EDIT geoplatform tools and ATBI+M (All Taxa Biodiversity Inventories and Monitoring) activities. The plenary session 9 (with about 200 participants) was devoted to “Presentations on the European Distributed Institute of Taxonomy (EDIT) Platform for Cybertaxonomy” (more details available from: <http://www.tdwg.org/conference2009/program/>).

The most important presentations connected with the geoplatform and ATBI+M were:

- “GeoSpatial components” by Pere Roca Ristol and
- “Fieldwork today with data acquisition tools” by Alexander Kroupa.

There were also 3 working sessions of EDIT and half of one of them was dedicated to live demo of the geoplatform tools (more info: <http://www.tdwg.org/conference2009/program/working-sessions/>).

Moreover, there was a presentation and discussion about the geospatial tools at the EDIT General meeting in Portugal (more info: <http://www.e-taxonomy.eu/generalmeeting2009>).

Points of interest

The Alexander Kroupa’s presentation about mobile acquisition tools http://www.tdwg.org/fileadmin/2009conference/slides/Kroupa_EDITMobileTools.ppt triggered a discussion about collecting geographically referenced data and it’s compatibility with the EDIT geoplatform. It was affirmed that the acquired data can be easily processed to match the input requirements of the geoplatform.

The following geoplatform tools are important for ATBI+M activities:

1. EDIT Map REST service.

The service is currently used by several data portals.

Within EDIT the system is used for by the Gerner and Mercantour/Alpi Marittime ATBI+M sites (<http://atbi.eu/mercantour-marittime/>), for EDIT platform for cyber taxonomy exemplar groups and by the users of the Scratchpads (e.g: PalmWeb site (<http://dev.e-taxonomy.eu/dataportal/palmae/>))

Outside EDIT the service is used by the CATE project, by a website hosted by the MNHN, Paris on planthoppers (<http://flow.snv.jussieu.fr/cgi-bin/flowsite.pl?db=flow&page=home&lang=en>) and by the portal of the Global Compositae Checklist, hosted by Landcare Research in New Zealand (<http://compositae.landcareresearch.co.nz/Default.aspx>).

It allows users to plot point data containing geographic coordinates along with other geographic information in the form of maps (*compare Figure 1.*) The EDIT Map service returns map images in response to a well-formatted URL (Uniform Resource Locator). Present implementation lets users browse taxonomy of collected information on the Park at the lowest level – species. It means that only one species location can be visualized on the same map.

This implementation does not benefit from most of the EDIT Map REST services functionalities – a legend has no sense with only one species, and the point symbolization is always the same. Anyway, the interest of enabling mapping the data at Genus or Family level in a future was communicated.

2. EDIT mapViewer.


With a database like ATIB+M it is not difficult to automatically create well-formatted .csv files for any taxonomic level required by the user. It can be done by simple function which export from a whole database at least three columns: longitude, latitude and genus. It should allow taxonomists to upload occurrences points to the EDIT mapViewer. Then the whole set of functionalities can be utilized: advanced visualization and symbolization, interaction (zooming, panning), querying and performing essential spatial analyses (*see Figure 2.*).

The other requested function is to enable a projection of the data. The user should have a possibility to set one of predefined projected coordinate systems to the uploaded data.

Conclusions

The EDIT geoplatform appear to be a useful set of tools for taxonomists. It can easily be integrated into the ATBI+M data collection, visualization and analysis workflow. Geospatial tools are still under constant development and new enhancements and user requirements are regularly introduced. That's why it allows to cherish a hope that final version of the abovementioned tools would be widely known as a functional applications for dealing with geographically referenced data.

ANNEX



ATBI + M: All Taxa Biodiversity Inventories + Monitoring in the Mercantour/Alpi Marittime natural parks

Main menu

- About ATBI + M
- News
- ▼ ATBI + M Database
 - Taxonomic details
 - New species
- Contributing scientists
- ▶ Photogalleries
- ▶ Info for scientists
- Press
- Links
- Contacts
- Site map

New:

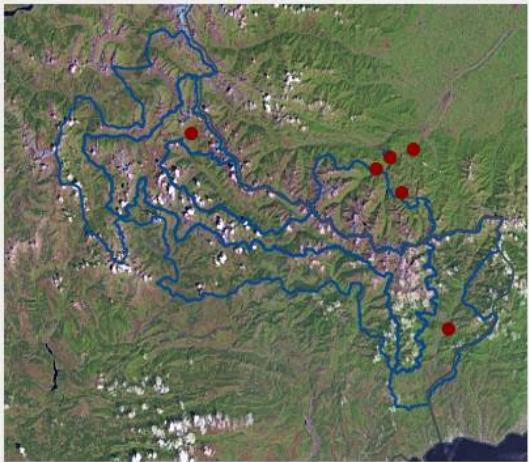
- Friday March 19th 2010
04:58:11 PM
19.3.'10 4:58pm
- Tuesday March 16th 2010
01:08:02 PM
16.3.'10 1:08pm
- Wednesday March 10th
2010 03:50:43 PM
10.3.'10 3:50pm
- Tuesday March 09th 2010
10:24:19 AM
9.3.'10 10:24am
- Friday March 05th 2010
02:49:03 PM
5.3.'10 2:49pm

[Admin log in](#)

Biodiversity in the Mercantour and Alpi Marittime natural parks

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Eilema lutarella (Linnaeus, 1758)



Parco Naturale delle Alpi Marittime (Italy)						
	Longitude	Latitude	Altitude	Date	Number	Collector (s)
	E 7.396222	N 44.28182	800m - 850m	18.05.2007	1 (male)	Christoph L. H
	E 7.396222	N 44.28182	800m - 850m	18.05.2007	1 (male)	Christoph L. H
	E 7.42611	N 44.22015	1100m - 1130m	02.08.2007	1 (male)	Christoph L. H

Figure 1. ATBI+M website.

Projection Options

Printing options

Layers

Your projects

Upload your CSV data!

Your Point Data

Other tools


Spatial analysis

Interactive analysis tools

Add/Remove modules

Help&Contact

EDIT mapViewer [prototype]



Scale = 1 : 1M

Administrative Level 2

Administrative Level 0

Query results (you can click and drag me)

36 records

Order data by Genus	Order data by Species
Stigmella	
Tischeria	
Acalyptis	
Bucculatrix	
Coptotriche	
Ectoedemia	
Ectoedemia	
Parectopa	
Phyllonorycter	

6.62750, 44.87162

Figure 2. EDIT mapViewer with uploaded point from the ATBI Mercantour/Alpi Marittime site.