Morpho - Bug #1261

Advanced Geographic Display System

01/16/2004 09:54 AM - Dan Higgins

Status:	In Progress		**Start date:**	01/16/2004
Priority:	Normal		**Due date:**	
Assignee:	Dan Higgins		**% Done:**	0%
Category:	morpho - general		**Estimated time:**	0.00 hour
Target version:	1.9		**Spent time:**	0.00 hour
Bugzilla-Id:	1261			

Description

Currently, there is a geographic display in the Query system and it is being adapted for the Geographic Coverage wizard. There are a number of extra features that are desirable (see copy of email from MJones attached) especially the need to provide higher resolution displays (higher zoom levels).

This appears to be a considerable effort (need for large images, multiple images, or handling of vector data). We should thus consider a more advanced geographic display system, perhaps 'GeoTools'.

History

#1 - 01/16/2004 09:56 AM - Dan Higgins

emails from M Jones:

Oh, yeah, one more thing. People need to be able to enter a point, rather than a box. In EML, we said to make the two points the same and they'll be interpreted as a point. But a radio button to select "Point" or "Box" and that does the right thing in each case would help (ie, if point is selected, let person just click on map without dragging, and grey out one of the lat/lon pairs).

Matt

Matt Jones wrote:

Dan, this looks great. You did it very quickly! I particularly like the

place names idea...we can get a list of field stations and other common things and use that very effectively for people. Probably a combo of the NRS/OBFS/LTER site locations. Eventually (not now) a nice feature would be to optionally allow someone to look up a place name on the internet using a gazeteer like the Alexandria one, or others, to get a list of place names and their bounding boxes.

Some issues with the interface....
1) The map needs at least one more zoom level, maybe 2. What will this do to

image size? Most studies are going to occurs at less than 1x1 degree, so the map doesn't work too well if all you can do is select a 1x2 degree box (the east/west box seems to have a min of 2 degrees). I notice it allows you to enter fractional numbers, but that doesn't help if you don't knwo them already.

2) The reason to have the map seems to be a) aid in finding the right area,

and b) visually validate the box is in about the right place. For (a), I think the map needs to show more features at the lower zoom levels. In particular, if you zoom to less than 1 degree (which is needed), the topo relief doen't allow the user to orient. We need some roads or other features. Can you switch to a different image at lower zoom levels?

3) Geo Coverage is repeatable, so the user needs to be able to insert and edit

multiple bounding boxes. Will the screen you showed be part of a 2 screen

wizard (one which lists the boxes, one which allows you to edit a single box?)
If so, the first screen could/should show all of the bounding boxes on the map
but not be editable. Unless you can draw multiple boxes on one map, and have
the coords change when you select a new box (which doesn't seem to work, but
maybe there are other options available that you're not using in this demo).

   4) See the NCEAS data registry (http://data.nceas.ucsb.edu) for some

descriptive text on the Geo Description and the bounding box.

   Nice job.

   Matt

   Dan Higgins wrote:

      Hi All,

      I have spent some time on a wizard screen for inputting geographic

coverage information; the current result is prototyped below. (Run the main
method in plugins.datapackagewizard.pages.Geographic class to see the
interactive version)

      The same map control as in the query screen is used (with a higher resolution

map). I am thinking that the 'Named Regions' at the bottom should include a
default list (those in the nrs/obfs site lists?). The 'Select' button sets
(shows) the bounding box for the selected region on the map. This region list
should probably be global (shared across datapackages) and I am thinking that
maybe we need a button to 'create/add' a new named region for the map/lat-long
values?

      Any comments/thoughts?

      Dan

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#2 - 03/27/2013 02:16 PM - Redmine Admin

Original Bugzilla ID was 1261