

QGIS Application - Bug report #7596

QGIS On-the-fly Polar Stereographic issues

2013-04-13 05:32 AM - andskog -

Status:	Closed	
Priority:	Normal	
Assignee:		
Category:	Projection Support	
Affected QGIS version:	master	Regression?: No
Operating System:		Easy fix?: No
Pull Request or Patch supplied:	No	Resolution:
Crashes QGIS or corrupts data:	No	Copied to github as #: 16526
Description		
<p>When enabling on-the-fly reprojection to polar stereographic projections (as I've tested), there are some issues related to rendering, feature selecting and editing of on-the-fly projected vector data. For example:</p> <p>Setting my project to enable on-the-fly projecting to Antarctic Polar Stereographic (EPSG:3031), adding a simple 3031 Antarctica basemap, creating a new point shapefile in 4326, start editing, adding a series of points around the longitudes of Antarctica starting from 0dg lon and going clockwise. When I get closer to the 180dg meridian, the points are not rendered as I add them. Keep digitizing in invisible mode, points are not rendered before I get (equally) far on the other side of the meridian. When edit session complete, I zoom in and out at the area where the points weren't rendered. When I zoom in, the points most far away from the meridian renders, but the close ones are still not rendered until I zoom jet further in. The points might also show or hide with panning.</p> <p>Beyond the editing and rendering, selecting features interactively is also buggy when intersecting non-rendered data around the meridian. And, if I switch from 3031 to 4326 in the project, so that the 4326 data I've digitized is shown in it's native projection, I'll see that the digitizing in 3031 have yielded sometimes strange results. E.g. when digitizing a 4326 line between 170dg W and E in 3031, and looking at it in 4326, it spans from 89ish to 89ish dg longitude. And that's not a rendering issue, it's the actual data.</p> <p>These issues seem to affect both point, line and polygon data. I've tested on W7 machines, and both QGIS master and 1.8. I've attached some bug screenshots.</p>		

Associated revisions

Revision 51fe6329 - 2015-10-29 12:09 PM - Jürgen Fischer

When reprojecting a layer in geo coordinates onto a canvas with a projection that maps badly on it (ie. projecting the reprojected extent back differs much from the input extent; eg. when using stereographic projections), render the full layer (whole world).

Fixes #7596

Revision d8f5dbeb - 2015-11-12 11:42 PM - Jürgen Fischer

Limit extent reprojection workaround to vector layers (followup 51fe632; fixes #13735; refs #7596)

History

#1 - 2013-06-02 08:02 AM - Giovanni Manghi

- Priority changed from High to Normal

#2 - 2015-08-05 06:22 PM - Matthias Siewert
- *Target version set to Future Release - High Priority*
- *File 12.png added*

I experience problems with North_Pole_Lambert_Azimuthal_Equal_Area (EPSG: 102017) projection. An esri shape file which has circumpolar data does not show polygons at the 180° meridian. This happens even if the file has the same projection.
Probably relates to this bug.
Using QGIS 2.8.2

#3 - 2015-10-29 04:13 AM - Jürgen Fischer
- *Status changed from Open to Closed*

Fixed in changeset commit:"51fe6329aeac2cafc21f70cf4e120800ea192b7a".

Files			
bug.png	182 KB	2013-04-13	andskog -
12.png	308 KB	2015-08-05	Matthias Siewert