QGIS Application - Bug report #2703
Incorrect rendering for vector line segments that span -180 line of longitude version 1.4.0

2010-05-10 10:50 AM - abigbee -

Status:	Closed		
Priority:	Low		
Assignee:	nobody -		
Category:	Vectors		
Affected QGIS version:		**Regression?:**	No
Operating System:	Windows	**Easy fix?:**	No
Pull Request or Patch supplied:		**Resolution:**	wontfix
Crashes QGIS or corrupts data:		**Copied to github as #:**	12763

Description

Polygons in vector layers that have line segments with endpoints that span the -180 line of longitude are incorrectly rendered. For example, a line with endpoints of 1 degree and -179 degree will not result in a 2 degree line, but rather be rendered as a line of of 180 degrees in length and spans. I.e. instead of a short line segment in the Pacific, the line runs across North America and the Atlantic.

I have attached a small test case for a many-side polygon esri shape file that I programmatically generated to illustrate this bug. Upon rendering in the GUI, the left side of the western polygon should incorrectly be extruded all the way across North America and the Atlantic Ocean. The correct rendering would display a circle-like polygon centered on the Alaskan Aleutian Islands.

History

#1 - 2010-05-10 10:56 AM - Giovanni Manghi

- Resolution set to wontfix

- Status changed from Open to Closed

Have a look to the "5.2.6" paragraph of the QGIS 1.4 manual: "Vector layers crossing 180◦ longitude".

This is a common problem in many GIS software and there is no easy solution. The one proposed is to use Postgis and the "ST_Shift_Longitude" function.

Files

bug_sample.png	227 KB	2010-05-10	abigbee -
bug_sample.shp	2.28 KB	2010-05-10	abigbee -
bug_sample.shx	116 Bytes	2010-05-10	abigbee -