QGIS Application - Bug report #2089
Buffer produces incorrect results with multipart vectors

2009-11-13 07:48 AM - jaanvajakas -

Status:	Closed			
Priority:	Low			
Assignee:	cfarmer -			
Category:	Python plugins			
Affected QGIS version:		**Regression?:**	No	
Operating System:	All	**Easy fix?:**	No	
Pull Request or Patch supplied:		**Resolution:**	invalid	
Crashes QGIS or corrupts data:		**Copied to github as #:**	12149	

Description

To reproduce:

1. create a new project in QGIS,
2. add layer kirdem2.epg4326.shp using Layers -> Add vector layer...,
3. Tools -> Geoprocessing tools -> Buffer(s), set buffer distance to -0.0003, choose output file, click OK

Expected result: an inner buffer of the polygons in platte carree distance (not real distance, as interpreting degrees as meters would be ambiguous)

Actual result: certainly not a buffer neither in platte carree distance nor in real geodetic distance nor any other projection. In some places, the buffer exceeds the original polygon border (see qgis_buffer_bug1.png); in some places, the buffer has "pixel artifacts" (qgis_buffer_bug1.png); some islands are missing altogether (qgis_buffer_bug2.png).

The input data kirdem2.epg4326.shp is part of the publicly available dataset '01.09.2009a. asustusüksus SHP' (zip - 13,65 MB, 6.11.2009) on
http://www.maaamet.ee/index.php?lang_id=1&page_id=272&menu_id=0
(I cut a small part out and converted to EPSG:4326 using QGIS).

History

#1 - 2009-11-29 05:18 AM - Giovanni Manghi

If you transform your vector from multipart to singleparts the buffer results ok.

This may be a simple workaround or it may be simply necessary, I'm not sure how buffer tools is supposed to work with multipart vectors.

Carson?

#2 - 2010-06-14 03:56 AM - Giovanni Manghi

awaiting Carson reply, I'll push this to 1.6 as in any case there is a workaround

#3 - 2010-11-14 06:40 AM - cfarmer -

- Resolution set to invalid

- Status changed from Open to Closed

Tested using commit:f13d3f35 (SVN r14368).

I am unable to reproduce this error. Looking at the areas described in this ticket, results appear to be as expected. I suspect this was a GEOS error, but appears to now have been fixed (GEOS version?). Please test and confirm if this now works.

I am going to close this as "invalid" because this is now a relatively old ticket, and appears to now be invalid, however, if it is still a problem, please reopen this ticket.

Carson

Files

kirdem2.epsg4326.zip	152 KB	2009-11-13	jaanvajakas -
qgis_buffer_bug1.png	113 KB	2009-11-13	jaanvajakas -
qgis_buffer_bug2.png	120 KB	2009-11-13	jaanvajakas -