QGIS Application - Bug report \#12406
QgsDistanceArea.measure(geometry) - for Polygons in WGS84
2015-03-19 04:04 AM - Jens Deutschmann

| Status: | Closed |  |  |
| :--- | :--- | :--- | :--- |
| Priority: | Normal |  |  |
| Assignee: |  |  |  |
| Category: |  |  |  |
| Affected QGIS version:2.8.0 | Regression?: | No |  |
| Operating System: | Windows | Easy fix?: | No |
| Rull | Request or Patch supplied: | Resolution: | fixed/implemented |
| Crashes QGIS or corruplts data: |  |  |  |

## Description

This is since Version 2.8 (newer i dont know). The Method measures something but the Nummber is extremly tiny. And there for wrong! If you project it to a CooRdinateSystem somewhere in the world it would measure something nearly correctly (because of the incorrect projection). But this could not be a workaround... if you need the whole world.

## Related issues:

Related to QGIS Application - Bug report \# 12057: Computed area is wrong when...
Closed 2015-01-26

## Associated revisions

Revision 19c1dc69-2015-05-21 01:48 PM - Martin Dobias

Fix \#12406 (measured area is wrong when computed on ellipsoid)

Introduced in e568493

Revision 1949fe9c-2015-05-21 02:24 PM - Martin Dobias

Fix \#12406 (measured area is wrong when computed on ellipsoid)

Introduced in e568493

## History

\#1-2015-03-19 04:16 AM - Jens Deutschmann

I forgot to highlight that this occurs in my Python-Script (Plugin), dont know if its happaning in the FieldCalculator too. Its only a question of time to figure it out, sry.

## \#2-2015-03-19 09:04 PM - Martin Dobias

Could you paste a snipped of code where you use QgsDistanceArea? I assume you didn't enable ellipsoid mode, so the measurements you get are using Euclidean distance on your coordinates. You probably want to do something like this:
d = QgsDistanceArea()
d.setEllipsoidalMode(True)
d.setEllipsoid("WGS84")
d.measure(QgsGeometry.fromPolyline([QgsPoint(0,0),QgsPoint(1,0)]))

## \#3-2015-03-20 02:27 AM - Jens Deutschmann

Here is a snipped, but i dont think its that Problem because in QGIS 2.6 it all works well!? And i think i enabled it this way....
def analyzeGeometry(self, geometry, layer, info):
crs = QgsCoordinateReferenceSystem(layer.dataProvider().crs())
calculator $=$ QgsDistanceArea()
calculator.setSourceCrs(crs)
calculator.setEllipsoid(crs.ellipsoidAcronym())
calculator.setEllipsoidalMode(crs.geographicFlag())
....
elif geometry.type() == QGis.Polygon:
self.add(info, 'num_polygons', 1)
self.add(info, 'tot_poly_area', int(calculator.measure(geometry)/1000000))
self.add(info, 'tot_poly_perimeter', int(calculator.measurePerimeter(geometry)/1000))

## \#4 - 2015-03-25 06:24 AM - Martin Dobias

The code snippet above unfortunately does not help much without knowing the parameters/outputs.

Please try to provide a sample of CRS configuration + geometry + expected vs actual results.
\#5-2015-05-10 01:03 AM - Giovanni Manghi

- Target version changed from Version 2.8 to Version 2.8.2
\#6-2015-05-11 12:53 AM - Giovanni Manghi
- Status changed from Open to Feedback
\#7-2015-05-21 04:52 AM - Martin Dobias
- Status changed from Feedback to Closed

Fixed in changeset commit:"19c1dc69e9ff09cbb4323cb73a64c7cd805dc63f".

## \#8 - 2015-05-21 05:34 AM - Martin Dobias

Backported to 2.8 in commit:1949fe9c86215e7818c9b21e14c80d4e417c2d7a

## \#9-2015-05-22 01:46 AM - Giovanni Manghi

- Resolution set to fixed/implemented

