

QGIS Application - Bug report #9070

+towgs84 wrongly ignored when OTF reprojection is on and project CRS is WGS84 Pseudo-Mercator (EPSG: 3857)

2013-11-15 11:14 PM - Mathieu Pellerin - nIRV

Status:	Closed	
Priority:	Severe/Regression	
Assignee:	Marco Hugentobler	
Category:	Projection Support	
Affected QGIS version:	master	Regression?: No
Operating System:	all	Easy fix?: No
Pull Request or Patch supplied:		Resolution:
Crashes QGIS or corrupts data:		Copied to github as #: 17716
Description		
<p>Issue seems to have appeared following the (cool) datum transformation commits. Steps to reproduce:</p> <ol style="list-style-type: none">1. Create a new project2. Load the roads_partial-indian1960_48n shapefile3. Open the project property, set OTF reprojection to on and the project CRS to EPSG:38574. Load the roads_partial-wgs84 shapefile5. You'll notice a 500m shift between the two layers, when those two layers should be identically placed on top of each other <p>The 500m shift is what happens when the +towgs84 parameter is not applied (I learned that from an much older bug :)). The reprojection issue here won't happen if you repeat the above steps but set the project projection to WGS84.</p> <p>This is a pretty impactful issue here as it affects @the openlayers plugin (which sets the projection to EPSG:3857). Confirmed over here on two linux machines and windows.</p>		

Associated revisions

Revision 51006cea - 2013-11-18 01:51 PM - Marco Hugentobler

Fix #9070

History

#1 - 2013-11-16 02:34 AM - Marco Hugentobler

- Assignee set to Marco Hugentobler

#2 - 2013-11-16 08:45 AM - Marco Hugentobler

Maybe a problem with the null grid parameter that is removed now. Looking into that problem on Monday.

Do know which of the two layers is misplaced?

#3 - 2013-11-16 04:44 PM - Mathieu Pellerin - nIRV

- Target version changed from Version 2.0.0 to Future Release - High Priority

Marco,

I **think** the indian 1960 48n layer is the one being misplaced/misprojected, based on fact that if you load that shapefile, then add a openlayers' google satellite imagery layer, you'll notice the vector layer is clearly 500m to the southeast of where it should be. Steps to reproduce that:

- 0. Download and activate the openlayers plugin
- 1. Create a new project
- 2. Load the roads_partial-indian1960_48n shapefile
- 3. Add a google satellite imagery layer via openlayers (it'll activate OTF reprojection and change CRS to EPSG:3857
(If the google layer shows the whole world, just zoom in and out once)
- 4. You'll notice a 500m shift between the two layers, when the visible roads on the google layer should match the vector layer

#4 - 2013-11-18 04:53 AM - Marco Hugentobler

- Status changed from Open to Closed

Fixed in changeset commit:"51006cea1f2959b0e659a8ee07577632dc3c2753".

#5 - 2013-11-19 01:56 AM - Mathieu Pellerin - nIRV

Marco, thanks, glad this was uncovered and fixed early on :)

Files			
roads_partial-indian1960_48n.zip	68 KB	2013-11-15	Mathieu Pellerin - nIRV
roads_partial-wgs84.zip.zip	65.2 KB	2013-11-15	Mathieu Pellerin - nIRV