

QGIS Application - Bug report #16846

Map tools operation does not correctly apply datum transformation

2017-07-11 10:46 AM - Andreas Neumann

Status:	Closed	
Priority:	High	
Assignee:		
Category:	Digitising	
Affected QGIS version:	master	Regression?: No
Operating System:		Easy fix?: No
Pull Request or Patch applied:	No	Resolution:
Crashes QGIS or corrupts data:	No	Copied to github as #: 24745
Description		
<p>If one copies selected features from one layer to another with different CRS (e.g. old Swiss system EPSG:21781 to new Swiss system EPSG:2056) the datum transformation is not correctly applied.</p> <p>This concerns features that are copied with the digitizing tools, with copy (in one layer) and paste in the other layer.</p> <p>Selection map tool and snapping are also affected.</p>		

Associated revisions

Revision bae6d563 - 2017-07-17 10:22 PM - Jürgen Fischer

consider datum transformation when pasting features (fixes #16846)

Revision 76e6b529 - 2017-07-19 10:23 AM - Jürgen Fischer

Merge pull request #4883 from 3nids/copy_datum_218

consider datum transformation when pasting features (fixes #16846)

History

#1 - 2017-07-11 10:52 AM - Andreas Neumann

This is in a project where the project uses EPSG:2056 and where some layers are in EPSG:2056 and some in EPSG:21781

Assuming that the datum transformation for on-the-fly transformation (display) is correctly specified, using the CHENYX06a.gsb file from Swisstopo (https://shop.swisstopo.admin.ch/de/products/geo_software/GIS_info --> free download, but need to confirm terms of usage). You have to download "NTv2 grid CH1903/LV03 -> CH1903+/LV95"

#2 - 2017-07-11 01:07 PM - Giovanni Manghi

- Status changed from Open to Feedback

Hi Andreas,

a genuine question... is copy/paste features expected to work between layers with different CRSs? I was remembering that they need to have the same CRS, but may I am wrong?

If you need to transform layers CRSs using NTV2 grids remember that there is this

http://plugins.qgis.org/plugins/ntv2_transformations/

that also includes Swisstopo grids.

#3 - 2017-07-14 02:23 PM - Andreas Neumann

@Giovanni: Apparently copy/paste between two layers with different CRS seems to work. It is just the datum transformation that isn't properly applied.

I will prepare a small sample data set and strk will have a look at it.

#4 - 2017-07-14 02:25 PM - Giovanni Manghi

- Status changed from Feedback to Open

#5 - 2017-07-17 10:23 PM - Jürgen Fischer

- Status changed from Open to Closed

- % Done changed from 0 to 100

Applied in changeset commit:qgis|bae6d56388d8f5dabec3d5df723e96dd90c47f25.

#6 - 2017-07-19 08:17 AM - Denis Rouzaud

- Subject changed from Copy and paste of features between two layers does not correctly apply datum transformation to Map tools operation does not correctly apply datum transformation

- Description updated

- Status changed from Closed to Open

the problem is broader:

- selection map tool
- snapping
- ...?

#7 - 2017-07-19 10:23 AM - Jürgen Fischer

- Status changed from Open to Closed

Applied in changeset commit:qgis|76e6b529bf6efe0b0f733e1df91471a280733ef2.