# QGIS Application - Bug report #4611 Loss of projection/datum info during file conversion

2011-12-04 09:25 PM - Matt Kennedy

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Status:	Closed		
Priority:	Normal		
Assignee:			
Category:	Projection Support		
Anected QGIS version:master		Regression?:	No
Operating System:		Easy fix?:	No
Pull Request or Patch supplied:		Resolution:	workstorme
Crashes QGIS or corruptis data:		Copied to github as #:	14515
QGIS 1.7.1 on Windows 7 64-bit installed from the standalone installer.			
When saving .shp files as .mif files as EPSG:27700 (OSGB36), projection/datum information is lost. Consequently if the files are reloaded they have different parameters.			
Currently EPSG 27700 is expressed in QGIS as:			
Layer Spatial Reference System: +proj=tmerc +lat_0=49 +lon_0=-2 +k=0.9996012717 +x_0=400000 +y_0=-100000 +ellps=airy +towgs84=446.448,-125.157,542.06,0.15,0.247,0.842,-20.489 +units=m +no_defs			
However, when you save as a .mif file the parameters change to: +proj=tmerc +lat_0=49 +lon_0=-2 +k=0.9996012717 +x_0=400000 +y_0=-100000 +ellps=WGS84 +towgs84=0,0,0,-0,-0,-0,0 +units=m +no_defs			
Mif files using the same projection from MapInfo for instance (or even previous versions of QGIS) use this in the header of the file:			
CoordSys Earth Projection 8, 79, "m", -2, 49, 0.9996012717, 400000, -100000			
Whereas those exported using QGIS 1.7.1 now have: CoordSys Earth Projection 8, 104, "m", -2, 49, 0.9996012717, 400000, -100000			
In version 1.6.0 (standalone installer on windows xp 32-bit) projection information is retained when exporting. I assume this is because QGIS 1.6.0 has EPSG 27700 defined as: +proj=tmerc +lat_0=49 +lon_0=-2 +k=0.9996012717 +x_0=400000 +y_0=-100000 +ellps=airy +datum=OSGB36 +units=m +no_defs			
I seem to have a similar problem when using ogr2ogr with GDAL 1.8.1 (the towgs parms just disappear).			
Matt			

# History

# #1 - 2011-12-05 01:38 AM - Giovanni Manghi

If you have the same problem from the command line with GDAL (the same GDAL version used in QGIS), then it is likely to be a GDAL problem. Please consider closing this ticket and filing one in the gdal trac.

<sup>-</sup> Status changed from Open to Feedback

#### #2 - 2011-12-05 01:51 AM - James Stott

This has been noted before.

#4271

If you open a MapInfo dataset in QGIS it comes in with a custom projection, not 27700 even though that is the one specified in the data. If I open it with On the fly reprojection turned on it shifts it. Turn on the fly off and it sits in the right place.

### #3 - 2011-12-05 11:32 PM - Matt Kennedy

Ok I have delved a little deeper. GDAL seems to work. The reason I thought it didn't is because the shapefile I was converting from had been exported from QGIS 1.7.1 and also didn't have the correct parameters.

So it seems the problem as it stands is that the QGIS 1.7.1 does not export shapefiles correctly for EPSG27700 either. Version 1.6.0 saves them with the following .prj file:

# PROJCS["Transverse\_Mercator",GEOGCS["GCS\_OSGB

1936",DATUM["D\_OSGB\_1936",SPHEROID["Airy\_1830",6377563.396,299.3249646]],PRIMEM["Greenwich",0],UNIT["Degree",0.017453292519943295]],PROJE ]],PROJECTION["Transverse\_Mercator"],PARAMETER["latitude\_of\_origin",49],PARAMETER["central\_meridian",-2],PARAMETER["scale\_factor",0.9996012717], 012717],PARAMETER["false\_easting",400000],PARAMETER["false\_northing",-100000],UNIT["Meter",1]]

# Whereas QGIS version 1.7.1 saves them with this:

# PROJCS["Transverse\_Mercator",GEOGCS["GCS\_Airy

1830",DATUM["D\_unknown",SPHEROID["airy",6377563.396,299.3249753150316]],PRIMEM["Greenwich",0],UNIT["Degree",0.017453292519943295]],PROJECTROJECTROJECTION["Transverse\_Mercator"],PARAMETER["latitude\_of\_origin",49],PARAMETER["central\_meridian",-2],PARAMETER["scale\_factor",0.9996012717],PARAMETER["false\_easting",400000],PARAMETER["false\_northing",-100000],UNIT["Meter",1]]

So it seems QGIS version 1.7.1 is not picking up the datum and the spheroid parameters are slightly different.

### #4 - 2011-12-16 02:09 PM - Giovanni Manghi

- Target version set to Version 1.7.4

### #5 - 2012-04-16 06:32 AM - Paolo Cavallini

- Affected QGIS version set to master
- Crashes QGIS or corrupts data set to No
- Target version changed from Version 1.7.4 to Version 1.8.0

### #6 - 2012-09-04 11:54 AM - Paolo Cavallini

- Target version changed from Version 1.8.0 to Version 2.0.0

### #7 - 2014-06-28 07:41 AM - Jürgen Fischer

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

### #8 - 2014-10-12 10:02 AM - Giovanni Manghi

- Resolution set to worksforme
- Status changed from Feedback to Closed

duplicate of #4271