

## QGIS Application - Bug report #4611

### Loss of projection/datum info during file conversion

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

<b>Status:</b>	Closed	
<b>Priority:</b>	Normal	
<b>Assignee:</b>		
<b>Category:</b>	Projection Support	
<b>Affected QGIS version:</b>	master	<b>Regression?:</b> No
<b>Operating System:</b>		<b>Easy fix?:</b> No
<b>Pull Request or Patch supplied:</b>		<b>Resolution:</b> worksforme
<b>Crashes QGIS or corrupts data:</b>		<b>Copied to github as #:</b> 14515
<b>Description</b>		
<p>QGIS 1.7.1 on Windows 7 64-bit installed from the standalone installer.</p> <p>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.</p> <p>Currently EPSG 27700 is expressed in QGIS as:</p> <p>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</p> <p>However, when you save as a .mif file the parameters change to:</p> <p>+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</p> <p>Mif files using the same projection from MapInfo for instance (or even previous versions of QGIS) use this in the header of the file:</p> <p>CoordSys Earth Projection 8, 79, "m", -2, 49, 0.9996012717, 400000, -100000</p> <p>Whereas those exported using QGIS 1.7.1 now have:</p> <p>CoordSys Earth Projection 8, 104, "m", -2, 49, 0.9996012717, 400000, -100000</p> <p>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:</p> <p>+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</p> <p>I seem to have a similar problem when using ogr2ogr with GDAL 1.8.1 (the towgs parms just disappear).</p> <p>Matt</p>		

#### History

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

- Status changed from Open to Feedback

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.

## #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],PAR  
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]],PROJE  
ROJECTION["Transverse_Mercator"],PARAMETER["latitude_of_origin",49],PARAMETER["central_meridian",-2],PARAMETER["scale_factor",0.9996012717],PAR  
717],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

