

QGIS Application - Bug report #11134

QGIS confuse EPSG:3857 with EPSG:54004

2014-09-03 02:39 PM - Jesus Gomez

Status: Closed	
Priority: Normal	
Assignee:	
Category: Projection Support	
Affected QGIS version: 2.4.0	Regression?: No
Operating System: Ubuntu	Easy fix?: No
Pull Request or Patch supplied: No	Resolution: up/downstream
Crashes QGIS or corrupts data: No	Copied to github as #: 19462
Description	
After reprojecting a layer with ogr2ogr to SRS EPSG:3857 , QGIS think it's SRS is EPSG:54004 .	
To try, you can download this Philadelphia dataset , and run:	
<pre>ogr2ogr -t_srs EPSG:3857 -s_srs EPSG:4326 city_limits_test.shp clipFeature/city_limits.shp</pre>	
And add the <u>city_limits_test</u> layer in a clean QGIS project, and you'll see the SRS is EPSG:54004 .	

History

#1 - 2014-09-03 03:38 PM - Jürgen Fischer

- Subject changed from QGIS confuse ESPG:3857 with ESPG:54004 to QGIS confuse EPSG:3857 with EPSG:54004

#2 - 2014-10-27 09:32 AM - Jürgen Fischer

- Category changed from Browser to Projection Support

#3 - 2016-05-12 07:03 PM - Etienne Trimaille

This bug is still true in QGIS 2.14.2 and GDAL 1.11.3.

If you work with a layer in 3857, it will be in 54004 after some processing in QGIS. I need to check if it's only with OGR algorithms.

#4 - 2016-05-28 10:59 AM - Even Rouault

- Resolution set to up/downstream

- Status changed from Open to Closed

This has been fixed in GDAL 2.1.0. Extract from the GDAL release news :

- morphToESRI(): use Mercator_Auxiliary_Sphere projection for EPSG:3857. morphFromESRI(): map Mercator_Auxiliary_Sphere to EPSG:3857 (#5924)

It generates this .prj file

```
$ cat out.prj
```

```
PROJCS["WGS_1984_Web_Mercator_Auxiliary_Sphere",GEOGCS["GCS_WGS_1984",DATUM["D_WGS_1984",SPHEROID["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Mercator_Auxiliary_Sphere"],PARAMETER["False_Easting",0.0],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian",0.0],PARAMETER["Standard_Parallel_1",0.0],PARAMETER["Auxiliary_Sphere",0.0]]
```

ry_Sphere_Type",0.0],UNIT["Meter",1.0]]

And it is read by OGR as :

```
PROJCS["WGS 84 / Pseudo-Mercator",  
  GEOGCS["WGS 84",  
    DATUM["WGS_1984",  
      SPHEROID["WGS 84",6378137,298.257223563,  
        AUTHORITY["EPSG","7030"]],  
      AUTHORITY["EPSG","6326"]],  
    PRIMEM["Greenwich",0,  
      AUTHORITY["EPSG","8901"]],  
    UNIT["degree",0.0174532925199433,  
      AUTHORITY["EPSG","9122"]],  
    AUTHORITY["EPSG","4326"]],  
  PROJECTION["Mercator_1SP"],  
  PARAMETER["central_meridian",0],  
  PARAMETER["scale_factor",1],  
  PARAMETER["false_easting",0],  
  PARAMETER["false_northing",0],  
  UNIT["metre",1,  
    AUTHORITY["EPSG","9001"]],  
  AXIS["X",EAST],  
  AXIS["Y",NORTH],  
  EXTENSION["PROJ4","+proj=merc +a=6378137 +b=6378137 +lat_ts=0.0 +lon_0=0.0 +x_0=0.0 +y_0=0 +k=1.0 +units=m +nadgrids=@null +wktext  
+no_defs"],  
  AUTHORITY["EPSG","3857"]]
```