QGIS Application - Bug report #18968
All GeoCCS names imported from GDAL in srs.db are wrongly set to "Imported from GDAL"

2018-05-17 08:16 AM - Andrea Giudiceandrea

Status:	Closed			
Priority:	Normal			
Assignee:				
Category:	Projection Support			
Affected QGIS version:	3.1(master)	**Regression?:**	No	
Operating System:		**Easy fix?:**	Yes	
Pull Request or Patch supplied:	Yes	**Resolution:**		
Crashes QGIS or corrupts data:	No	**Copied to github as #:**	26799	

Description

Like reported in #17941 (for Geographic Coordinate Systems, "GEOGCS"), I've also found that the name of each Geocentric Coordinate System ("GEOCCS") imported in srs.db from GDAL *.csv EPSG support files by QgsCoordinateReferenceSystem::syncDb() in QGIS 2.18 and QgsCoordinateReferenceSystem::syncDatabase() in QGIS 3 (during postinstall, in Windows by crssync.exe) is wrongly set to "Imported from GDAL" instead of with its proper name.

The bug lies in https://github.com/qgis/QGIS/blob/release-2_18/src/core/qgscoordinatereferencesystem.cpp#L1810-L1812
    QString name(OSRIsGeographic(crs) ? OSRGetAttrValue(crs, "GEOGCS", 0) : OSRGetAttrValue(crs, "PROJCS", 0));
      if (name.isEmpty())
       name = QObject::tr("Imported from GDAL");

I think we can easily fix it:
    QString name(OSRIsGeographic(crs) ? OSRGetAttrValue(crs, "GEOGCS", 0) : OSRGetAttrValue(crs, "PROJCS", 0));
      if (name.isEmpty())
       name = (OSRIsGeocentric(crs) ? OSRGetAttrValue(crs, "GEOCCS", 0) : QObject::tr("Imported from GDAL"));

Anyway, to fix the names of the GEOCCSs already in srs.db shipped with both QGIS 2.18 and QGIS 3 we'll need to properly update it and upload it in the repository.

Associated revisions

Revision 7576ae10 - 2018-05-19 09:51 PM - Jürgen Fischer

crssync:

   - also update coordinate system descriptions

   - retrieve descriptions of geocentric CRSes (fixes #18968)

History

#1 - 2018-05-17 08:39 AM - Andrea Giudiceandrea

PR for 2.18 https://github.com/qgis/QGIS/pull/7009

#2 - 2018-05-19 10:01 PM - Jürgen Fischer

- % Done changed from 0 to 100

- Status changed from Open to Closed

Applied in changeset commit:qgis|7576ae104d3725176a3cbf4aa81dc0bc265446c4.