

Application: gvSIG desktop - gvSIG bugs #4674

US Stateplane projection files are not well recognized

09/23/2017 06:35 PM - Antonio Falciano

Status:	Closed	% Done:	0%
Priority:	Normal	Spent time:	0.00 hour
Assignee:			
Category:	CRS		
Target version:	2.4.0-2838 (rev. org.gvsig.desktop-2.0.205)		
Severity:	Minor	Add-on version:	
gvSIG version:	2.4.0	Add-on build:	
gvSIG build:		Add-on resolve version:	
Operative System:		Add-on resolve build:	
Keywords:		Proyecto:	
Has patch:	Yes	Hito:	
Add-on name:	Unknown		

Description

US Stateplane projection files are not well recognized due to naming (e.g. FIPS code in ESRI wkt) and/or rounding misalignments between GDAL data and the EPSG Registry.

An example of such prj file is:

```
PROJCS["NAD_1983_StatePlane_Texas_Central_FIPS_4203_Feet",GEOGCS["GCS_North_American_1983",DATUM["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199432925199433]],PROJECTION["Lambert_Conformal_Conic"],PARAMETER["False_Easting",2296583.333333333],PARAMETER["False_Northing",9842500.0],PARAMETER["Central_Meridian",-100.3333333333333],PARAMETER["Standard_Parallel_1",30.116666666666666666666666666667],PARAMETER["Standard_Parallel_2",31.883333333333333],PARAMETER["Latitude_Of_Origin",29.666666666666666666666666666667],UNIT["Foot_US",0.3048006096012192]]
```

(Source:

<http://osgeo-org.1560.x6.nabble.com/gdal-dev-Achieving-Better-WKT-gt-EPSG-Code-Autodetection-When-Importing-Layers-to-Postgis-t5335537.html>)

I attach a patch which solves the issue.

Associated revisions

Revision 747 - 09/26/2017 12:33 PM - Joaquín del Cerro Murciano

refs #4674. Patch provided by Antonio Falciano. Fixed US Stateplane projection

Revision 748 - 09/26/2017 05:51 PM - Joaquín del Cerro Murciano

refs #4674. Patch provided by Antonio Falciano. Fixed US Stateplane projection

History

#1 - 09/24/2017 04:45 PM - Joaquín del Cerro Murciano

- Target version changed from 2.4.0-2850-final (rev. org.gvsig.desktop-2.0.220) to 2.4.0-2838 (rev. org.gvsig.desktop-2.0.205)

#2 - 09/26/2017 12:33 PM - Joaquín del Cerro Murciano

- Status changed from New to Fixed

#3 - 09/26/2017 03:38 PM - Antonio Falciano

- Status changed from Fixed to New
- File stateplane_bis.patch added

Hi Joaquín,

I attach an additional patch that contains further improvements and corrections, because I've discovered that the *MorphToESRI()* method sometimes makes not possible to export the sr to Proj4. It provides a more robust approximation.

Sorry for the annoyance.

#4 - 09/26/2017 05:52 PM - Joaquín del Cerro Murciano

- Status changed from New to Fixed

Antonio Falciano wrote:

*Hi Joaquín,
I attach an additional patch that contains further improvements and corrections, because I've discovered that the MorphToESRI() method sometimes makes not possible to export the sr to Proj4. It provides a more robust approximation.
Sorry for the annoyance.*

Aplicados los nuevos cambios.

#5 - 09/27/2017 03:39 PM - Antonio Falciano

- Status changed from Fixed to Closed

Thank you very much.

Files

stateplane.patch	4.09 KB	09/23/2017	Antonio Falciano
stateplane_bis.patch	3.94 KB	09/26/2017	Antonio Falciano