QGIS Application - Bug report #1196
projection parameter +no_uoff is not applied to layer SRS; affects Michigan GeoRef

2008-07-31 05:39 PM - Steven Mizuno

Status:	Closed		
Priority:	Low		
Assignee:	nobody -		
Category:	Projection Support		
Affected QGIS version:		**Regression?:**	No
Operating System:	All	**Easy fix?:**	No
Pull Request or Patch supplied:		**Resolution:**	invalid
Crashes QGIS or corrupts data:		**Copied to github as #:**	11256

Description

background: the PROJ.4 definitions for Michigan [[GeoRef]] (EPSG:3078, 3079) don't work properly unless +no_uoff is included in the definition. There is PROJ.4 mailing list traffic about this.

A Custom Projection can be created for Michigan [[GeoRef]] by copying the 3078 parameters and adding +no_uoff. This can be saved ok and the parameters test ok.

When this custom projection is applied to a layer the +no_uoff parameter disappears from the SRS string on the General tab of layer properties and the layer is not projected properly.

History

#1 - 2008-09-01 01:17 AM - Maciej Sieczka -

- Resolution set to invalid

- Status changed from Open to Closed

Current stable GDAL interprets EPSG:3078 in the following way:

    $ epsg_tr.py 3078 -proj4
    # NAD83 / Michigan Oblique Mercator
    <3078> +proj=omerc +lat_0=45.30916666666666 +lonc=-86 +alpha=337.25556 +k=0.9996 +x_0=2546731.496 +y_0=-4354009.816
    +ellps=GRS80 +datum=NAD83 +units=m +no_defs <>

As you see there is no no_uoff parameter above. Since QGIS CRS is created according to GDAL's interpretation of EPSG codes (epsg_tr.py output) this is not a QGIS issue but a GDAL one.

Please report it to GDAL devs. Once it is fixed in GDAL (i.e. epsg_tr.py produces a correct proj4 representation of EPSG codes in question) add a notice to this ticket and QGIS CRS database will be updated.

#2 - 2009-08-22 12:57 AM - Anonymous

Milestone Version 1.0.0 deleted