

QGIS Application - Bug report #10245

Defining custom CRS in QGIS 2.2

2014-05-12 03:37 PM - Jorge Rocha

Status:	Closed	
Priority:	Normal	
Assignee:	Jorge Rocha	
Category:	Projection Support	
Affected QGIS version:	2.2.0	Regression?: No
Operating System:	Ubuntu	Easy fix?: No
Pull Request or Patch supplied:	No	Resolution:
Crashes QGIS or corrupts data:	No	Copied to github as #: 18682
Description		
<p>For some reason, defining a new CRS is not working. The following error is reported: The proj4 definition of 'name' is not valid.</p> <p>I'm defining a new CRS, from Settings -> Custom CRS... with:</p> <p>Name: China Geodetic Coordinate System 2000</p> <p>Parameters: +proj=geocent +ellps=GRS80 +units=m +no_defs</p> <p>These parameters were pasted from EPSG:4479 definition.</p> <p>!Screenshot - 05122014 - 02:10:07 PM.png!</p> <p>I can use the calculator at the bottom to test the coordinate transformation, and it seems to works.</p> <p>But it does not save the new CRS. It reports the following error: The proj4 definition of 'China Geodetic Coordinate System 2000' is not valid.</p> <p>!Screenshot - 05122014 - 02:10:39 PM.png!</p> <p>I've tried to add this projection to PostGIS and it works.</p> <pre>INSERT into spatial_ref_sys (srid, auth_name, auth_srid, proj4text, srttext) values (4479, 'EPSG', 4479, '+proj=geocent +ellps=GRS80 +units=m +no_defs ', 'GEOCCS["China Geodetic Coordinate System 2000",DATUM["China_2000",SPHEROID["CGCS2000",6378137,298.257222101,AUTHORITY["EPSG","1024"]],AUTHORITY["EPSG","1043"],PRIMEM["Greenwich",0,AUTHORITY["EPSG","8901"]],UNIT["metre",1,AUTHORITY["EPSG","9001"]],AXIS["Geocentric X",OTHER],AXIS["Geocentric Y",OTHER],AXIS["Geocentric Z",NORTH],AUTHORITY["EPSG","4479"]]);</pre> <pre>select ST_AsText(ST_Transform(ST_SetSRID(ST_Makepoint(114,30), 4326), 4479));</pre> <pre>"POINT(-2248544.5475367 5050313.74152924)"</pre>		

History

#1 - 2014-05-13 02:31 AM - Jorge Rocha

- % Done changed from 0 to 100
- Assignee set to Jorge Rocha
- Status changed from Open to Closed

With the precious feedback from Andre Joost, proj4 does not support the *geocent* projection.

```
proj -lp | grep geocent
```

Does not return any projection matching *geocent*.

Files			
07_PM.png	97.2 KB	2014-05-12	Jorge Rocha
39_PM.png	16.8 KB	2014-05-12	Jorge Rocha