

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

For some reason, defining a new CRS is not working. The following error is reported: **The proj4 definition of 'name' is not valid.**

I'm defining a new CRS, from Settings -> Custom CRS... with:

Name: China Geodetic Coordinate System 2000

Parameters: +proj=geocent +ellps=GRS80 +units=m +no_defs

These parameters were pasted from [EPSG:4479](#) definition.

!Screenshot - 05122014 - 02:10:07 PM.png!

I can use the calculator at the bottom to test the coordinate transformation, and it seems to work.

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.

!Screenshot - 05122014 - 02:10:39 PM.png!

I've tried to add this projection to PostGIS and it works.

```
INSERT into spatial_ref_sys (srid, auth_name, auth_srid, proj4text, srtext) 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","104
PSG","1043"]],PRIMEM["Greenwich",0,AUTHORITY["EPSG","8901"]],UNIT["metre",1,AUTHORITY["EPSG","9001"]],AXIS["Geocentric X",O
entric X",OTHER],AXIS["Geocentric Y",OTHER],AXIS["Geocentric Z",NORTH],AUTHORITY["EPSG","4479"]]);
```

```
select ST_AsText(ST_Transform(ST_SetSRID(ST_Makepoint(114,30), 4326), 4479));
```

```
"POINT(-2248544.5475367 5050313.74152924)"
```

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