

QGIS Application - Bug report #13957

[Project Properties] certain ellipsoids selected cause transform initialization failure

2015-12-07 12:10 PM - Steven Mizuno

Status: Closed	
Priority: Normal	
Assignee:	
Category: Projection Support	
Affected QGIS version: master	Regression?: No
Operating System:	Easy fix?: No
Pull Request or Patch supplied: No	Resolution: end of life
Crashes QGIS or corrupts data: No	Copied to github as #: 21972
Description	
<p>In Project Properties, General, Ellipsoid - selecting some ellipsoids give huge values in Identify derived, both area and perimeter for polygons, and length for lines.</p> <p>It appears that the transform does not initialize, according to the debug logger. However, the user is not informed of the failure.</p> <p>Some ellipsoids that don't work: IGNF:ELG..., the various planet/moon names (not an exhaustive list)</p> <p>I compared the list of ellipsoids in PROJ.4 (proj -le) to the list in tbl_ellipsoid and found by testing various ellipsoids that an ellipsoid in tbl_ellipsoid that does not have a PROJ.4 entry produces a transform initialization failure, therefore the very large area values. The user CRS that results shows +ellps= with the acronym from tbl_ellipsoid.</p> <p>I have tried the user defined CRS (the projection shows longlat) that resulted from the ellipsoid choice as a project CRS (OTF on) and find that there appears to be no difference in the displayed map, aside from a very large Scale value displayed. A feature set that was in UTM most likely would have been stretched horizontally if the project CRS actually was transforming the geometries to longlat.</p> <p>I am rating the priority as High because of the silent transform failure.</p>	

History

#1 - 2017-03-07 02:53 AM - Giovanni Manghi

- Status changed from Open to Feedback
- Priority changed from High to Normal

Is this the case on recent qgis releases (includes master for QGIS3)?

#2 - 2017-04-30 10:55 AM - Giovanni Manghi

- Description updated

Is this still true on qgis3/master (the code around projections has changed a lot)?

#3 - 2017-05-01 01:06 AM - Giovanni Manghi

- Easy fix? set to No
- Regression? set to No

#4 - 2017-05-26 05:20 PM - Giovanni Manghi

- Resolution set to not reproducible
- Status changed from Feedback to Closed

Closing for lack of feedback.

#5 - 2017-10-18 10:02 PM - Steven Mizuno

- Status changed from Closed to Reopened
- Resolution deleted (not reproducible)

I am reopening this because certain ellipsoids are still not initializing properly. Specifically, the ellipsoid WGS84 (no space in the name) is not working correctly. See #17296 . This shows as Clarke 1866 when you return to selecting an ellipsoid.

Further testing shows that any ellipsoid in tbl_ellipsoid that has an acronym beginning with IGNF:ELG is still not correctly initializing. These all will show Clarke 1866 as the ellipsoid when you return to selecting an ellipsoid.

I detect a possible problem with the value in the acronym column when there is a colon ':' in the value.

#6 - 2017-10-19 04:06 PM - Giovanni Allegri

I confirm the problem also on Ubuntu 16.04

#7 - 2017-10-20 07:23 PM - Steven Mizuno

I have found two more ellipsoids that have a different initialization problem. These have zero for the a, b parameters. This causes NAN in Measure dialog.

They are:

Appl. Physics. 1965

Naval Weapons Lab., 1965

#8 - 2019-03-09 04:09 PM - Giovanni Manghi

- Status changed from Reopened to Closed
- Resolution set to end of life

End of life notice: QGIS 2.18 LTR

Source:

<http://blog.qgis.org/2019/03/09/end-of-life-notice-qgis-2-18-ltr/>