

QGIS Application - Bug report #19845

Projection Issue with 3D Points

2018-09-13 09:32 PM - Matthew Jackson

Status: Open	
Priority: Normal	
Assignee:	
Category: 3D	
Affected QGIS version: 3.2	Regression?: No
Operating System: Windows 10	Easy fix?: No
Pull Request or Patch supplied: No	Resolution:
Crashes QGIS or corrupts data: No	Copied to github as #: 27669
Description	
<p>Good Afternoon,</p> <p>I encountered a bug in QGIS 3.2 where the relative altitude clamping option for a 3D point does not work as intended if the elevation raster is not in the same coordinate system as the project coordinate system.</p> <p>To replicate:</p> <ol style="list-style-type: none">1. Create a 3D point with say a 200m Z value (can be in either project coordinate system or other)2. Choose an elevation raster (in my example I used a DTED map (EPSG:4326))3. Set Project CRS to something that does not match (2). In my case I used EPSG:3857.4. Determine elevation at 3D point generated in (1), and create a second 3D point that has height = 200 + elevation just calculated5. Compare heights in 3D view (use relative altitude clamping for (1), and absolute for (2)) <p>If elevation raster is reprojected, the elevation seems to be interpreted as zero, resulting in (1) being rendered at a lower height than (2). I did verify that if one re-projected the elevation raster to the project CRS and used it as your base elevation map, then the relative clamping worked as intended.</p>	