QGIS Application - Feature request #10320 WGS84 Ellipsoid Calculations

2014-05-21 10:47 AM - Antonio Locandro

Status:	Feedback				
Priority:	Normal				
Assignee:	Norma				
Category:	Projection Support				
	• • • • • • • • • • • • • • • • • • • •	Resolution:			
Pull Request or Patch supplied:					
Easy fix?:	No	Copied to github as #: 18745			
Description					
I posted this in the developer mailing list but adding it here also					
Hi all, in this document http://www.faa.gov/documentLibrary/media/Order/8260.54A.pdf in Appendix 2 there are lots of calculations and					
algorithms for solving	some useful problems when working with non	projected data e.g. EPSG 4326			
There is also this github repo https://github.com/pkohut/GeoFormulas and					
http://wired2code.wordpress.com/2010/07/14/wgs84-ellipsoid-calculations/					
Apparently they are written in C and I am wondering if maybe QGIS could benefit from it, I would really want to port this to python also but					
I am still very new to p	rogramming to actually achieve this				
Anyway I hope someone with more skills than me can review this and maybe see if this can be used for QGIS					
, , , , , , , , , , , , , , , , , , , ,		,			
For easy references cases covered are here http://www.pkautomation.com/wgs84_geodesic_calc.html					

#1 - 2014-06-24 05:12 AM - Paolo Cavallini

- Category set to Projection Support

#2 - 2016-02-13 03:06 PM - Nyall Dawson

- Status changed from Open to Feedback

QGIS already handles calculations using a preset ellipsoid (check under Project Properties). I'm struggling to understand what is currently missing that this request refers to. Can you give specifics?

#3 - 2016-02-13 04:49 PM - Antonio Locandro

- File case3.png added
- File case2.png added
- File case__.png added

Actually it refers to QGIS be able to do some or all of the calculations described in the package geodetically, for example in WGS84. Like given a center and a radius calculate the intercept of a line given point of origin and azimuth. This could be nice to have for advanced editing capabilities using geodetic formulas. But maybe its an edge case and not needed by everyone

#4 - 2017-05-01 12:48 AM - Giovanni Manghi

- Easy fix? set to No

Files			
casepng	7.59 KB	2016-02-13	Antonio Locandro
case2.png	5.39 KB	2016-02-13	Antonio Locandro
case3.png	9.76 KB	2016-02-13	Antonio Locandro