
Subject: Re: UTM Map Projection Produces Incorrect Results
Posted by [MarioIncandenza](#) on Mon, 31 Oct 2011 17:02:54 GMT
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David,

I am still confused. The first line of code in your article uses a keyword to MAP_PROJ_INIT, "ELLIPSOID='wgs84'", which I can find nowhere in the documentation of MAP_PROJ_INIT. I see a DATUM keyword (that doesn't solve the problem described-- map parameters are still spherical when I specify DATUM=8). Was this ELLIPSOID keyword introduced in a recent version?

Anyway, perusing the group archive, I see that Andrew Cool in 2004 said "I suspect that there is an inherent problem in IDL's mapping routines in the way they handle Transverse Mercator and rotation."

Might be worth updating this page with new information:
http://www.idlcoyote.com/map_tips/utm_to_ll.html

proj.4 is nice any everything, but one of the strongest points remaining in IDL's favor is that it does not use external libraries and thus does not have dependency troubles that plague other solutions. In the short-term, they should just fix the bug-- I seriously doubt that there was ever a version of the GCTP software that couldn't handle UTM.

--Edward H.
