
Subject: Re: UTM WGS-84 projection with IDL?

Posted by [James Kuyper](#) on Thu, 11 Mar 2004 15:21:19 GMT

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Remko wrote:

>
> Hi all,
>
> At the moment I try to import my (ENVI) images into IDL. The binary
> files are imported without problems with the OpenR and ReadU commands.
> The final task is to output my images in publishable maps. So, I want
> to add country lines etc. (with MAP_CONTINENTS, MAP_GRID).
>
> The thing is that my original image is in a UTM projection (can be set
> with the MAP_SET command), but the standard here is a Clark 1866
> ellipsoid, while my image is in a WGS-84 (zone 26, Greenland). Does
> anybody know how to derive the parameters defining the ellipsoid
> (equatorial radius, eccentricity squared, scale on the central
> meridian) for the WGS-84 projection, so that I can set the
> ELLIPSOID-keyword right?

I've found a file that cites "1996 Astr. Almanac; A.A. Suppl.; IERS Standards; DMA WGS84 manual" as the source of the following figures:

EarthTag	Semi-Major Axis	Semi-Minor Axis
WGS84	6378137.0000	6356752.3142450
