
Subject: Re: Reproject MODIS automatically using IDL
Posted by [James Kuyper](#) on Tue, 06 Sep 2005 15:07:52 GMT
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zamri79@gmail.com wrote:

> I looking at Modis 1B. I want to do a reproject to WGS84 (Malaysia
> Datum).

I don't know anything about "Malaysia Datum". However, the keyword DATUM=8 causes MAP_PROJ_INIT to use the WGS84 Datum for map projections. If you're using MAP_SET, it's a little trickier, because you have to use the ELLIPSOID keyword, and you have to know the actual numbers that correspond to the WGS84 Datum, and the ELLIPSOID keyword only affects the Transverse Mercator and Lambert Conic projections. The following IDL code is supposed to set up suitable contents for a WGS84 ellipsoid, but it hasn't been independently verified:

```
f = 1-6356752.300000/6378137.000000  
eccentricity = 2*f-f2  
ellipsoid = [6378137.000000, eccentricity, 0.999600]
```
