
Subject: Re: Reprojecting an image file derived from Level 1B MODIS HDF
Posted by [devin.white](#) on Fri, 07 Jan 2011 01:51:33 GMT

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The reason for the misalignment could be geopositioning errors in the Longitude and Latitude bands, but an equally likely situation is that the native imagery in Google Earth is not in the right place. That happens a lot. You should by no means treat the imagery in Google Earth as truth. It's generally good to about 30m, but not always. Google Earth's native projection space is Geodetic (longitude and latitude with respect to the WGS-84 ellipsoid). I think it supports UTM and a few other projections, but Geodetic is the safest to use.

On Jan 5, 7:22 pm, Kasia <[sia...@gmail.com](#)> wrote:

- > Wow! Thanks for all these replies. I have the tools to reproject the
 - > original file now but that would then require modifying the code that
 - > generates the jpeg, which I don't have, unfortunately.
 - >
 - > Devin, I discovered the ENVI Build GLT command after I posted this and
 - > it has been working great in reprojecting the jpeg. BUT the images
 - > don't line up with the landscape after displaying in Google Earth.
 - > I've triple checked the lat/lon box coordinates that I wrote into the
 - > kml and they seem to be correct so the only thing I can think of is
 - > I'm using the wrong projection.
 - >
 - > So the next question is...What projection does GE want? I've heard the
 - > following:
 - > Mercator
 - > Equirectangular
 - > World Equidistant Cylindrical (Sphere)
 - >
 - > Which one is it? I did this over a year ago successfully with
 - > different datasets using GDAL and the World Equidistant Cylindrical
 - > (Sphere) projection, but I also remember reprojecting another MODIS
 - > dataset using ENVI and Equidistant Cylindrical is not an option in
 - > ENVI.
 - >
 - > There are plenty of other options, so any suggestions?
 - >
 - > Thanks again!
 - > Kasia
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