
Subject: Re: google earth projections

Posted by [liamgumley](#) on Tue, 04 Nov 2008 15:42:13 GMT

[View Forum Message](#) <> [Reply to Message](#)

On Nov 3, 6:42 pm, "R.G. Stockwell" <notha...@noemail.com> wrote:

> <liamgum...@gmail.com> wrote in message

>

> news:2f8cf74c-b86f-4ece-bb13-694bf3badde3@n1g2000prb.googlegr oups.com...

> On Nov 1, 2:20 pm, "R.G. Stockwell" <notha...@noemail.com> wrote:

>

>

>

>> Does anyone know the IDL map projection to use to make a
>> ground overlay in a kml file (to be viewed by a geobrowser such
>> as google earth?)

>

>> I've googled and have seen many different things stated,
>> so I am not sure if my use of cylindrical projection is right.

>

>> My figures are off, in that my continents do not match earth's continents

>> I am initially making a full globe image (-90 to 90 lat , -180 to 180

>> lon)

>> similar to the big blue marble example.

>

>> http://www.gearthblog.com/blog/archives/2006/11/blue_marble_time_ani...

>

>> but my image of the global map, does not reproduce the continents like
>> in those

>> images.mw1.google.com/mw-earth-vectordb/kml-samples/bmng12/files/BMNG...

>

>> cheers,

>> bob

>> This is the projection used by Google Earth overlays:

>> http://en.wikipedia.org/wiki/Plate_carre_projection

>

> Thanks Liam,

> one problem is in converting from the uv coords in the plot window,

> (which range from -2×10^7 to 2×10^7 , and -1×10^7 to 1×10^7).

> to my data coordinates that my data is in (drawing polygons in lat and lon).

> Where do i get the info for that coordinate transformation?

>

> I can overlay the continents nicely, and grid and label it, perhaps I just

> have to dig into those routines to see how they do it.

>

> Cheers,

> bob

Bob,

MAP_PROJ_FORWARD converts from lon,lat to x,y
MAP_PROJ_INVERSE convert from x,y to lon,lat

Both of these routines require a map structure variable from
MAP_PROJ_INIT.

Cheers,
Liam.
Practical IDL Programming
<http://www.gumley.com/>
