Subject: Re: shifted .kml created with IDL
Posted by David Fanning on Mon, 30 Jul 2012 12:36:49 GMT
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titan writes:

> My problem is that when I open the .kml file it is shifted and is not correctly overlaying with the features likes lake or border lines.
> Even if I inserted the coordinates taken from google earth:
>
> ul_lat_GE=47.750684
> ul_lon_GE=9.015974
> ;
> lr_lat_GE=45.222022
> lr_lon_GE=13.612157
>
> I'm still not able to correctly overlay my image :(
>
>
> Could someone tell me what I'm doing wrong?

I would guess the map projection in your GeoTiff file is different from the map projection Google Earth uses. You will probably have to convert your GeoTiff coordinates to the proper map projection.

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: shifted .kml created with IDL
Posted by titan on Mon, 30 Jul 2012 12:55:06 GMT
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On Monday, July 30, 2012 2:36:49 PM UTC+2, David Fanning wrote:
> titan writes:
>
>

>
>> My problem is that when I open the .kml file it is shifted and is not correctly overlaying with the features likes lake or border lines.
>
>> Even if I inserted the coordinates taken from google earth:
>
>>
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>> ul_lat_GE=47.750684
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>> ul_lon_GE=9.015974
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>> lr_lat_GE=45.222022
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>> lr_lon_GE=13.612157
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> projection.
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> Cheers,
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> David
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> --
>
> David Fanning, Ph.D.
>
> Fanning Software Consulting, Inc.
>
> Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
>
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Hi David,
first of all thanks for your answer!
this is how I calculated the coordinates

```
utmMap = MAP_PROJ_INIT('UTM', DATUM=12, ZONE=32)
lonlat = MAP_PROJ_INVERSE([xLL,yLL,xUR,yUR], MAP_STRUCTURE=utmMap)

lon_range=[lonlat[0,0],lonlat[0,1]]
lat_range=[lonlat[1,0],lonlat[1,1]]
; Set the center of the projection
c_lat = (lat_range(0) + lat_range(1)) * 0.5
c_lon = (lon_range(0) + lon_range(1)) * 0.5

UL_lat=lonlat[1,1]
UL_lon=lonlat[0,0]

LR_lat=lonlat[1,0]
LR_lon=lonlat[0,1]
```

I'm using the DATUM=12 as you suggest here
http://www.idlcoyote.com/map_tips/utmwrong.php
I thought google earth projection was UTM.

If I'm wrong could you please tell me which kind of projection is google earth using?is it a particular one?
thanks

Subject: Re: shifted .kml created with IDL
Posted by David Fanning on Mon, 30 Jul 2012 13:08:40 GMT
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titan writes:

> If I'm wrong could you please tell me which kind of projection is google earth using?is it a particular one?

I haven't made KML files, but when I work with Google Maps,
they always come back in a Mercator projection. I presume
that is what they are using.

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
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Subject: Re: shifted .kml created with IDL
Posted by David Fanning on Mon, 30 Jul 2012 13:13:24 GMT
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David Fanning writes:

> I haven't made KML files, but when I work with Google Maps,
> they always come back in a Mercator projection. I presume
> that is what they are using.

To navigate the Google Static Maps that I get from Google,
I use a Mercator projection with a WGS84 datum:

```
mapCoord = Obj_New('cgMap', 105, Datum=8)
```

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
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Subject: Re: shifted .kml created with IDL
Posted by titan on Mon, 30 Jul 2012 14:23:18 GMT
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On Monday, July 30, 2012 3:13:24 PM UTC+2, David Fanning wrote:
> David Fanning writes:
>
>
>
>> I haven't made KML files, but when I work with Google Maps,
>
>> they always come back in a Mercator projection. I presume
>
>> that is what they are using.
>
>
>
> To navigate the Google Static Maps that I get from Google,
>
> I use a Mercator projection with a WGS84 datum:
>
>
>
>   mapCoord = Obj_New('cgMap', 105, Datum=8)
>
>
>
> Cheers,
>
>
>
> David
>
>
>
> --
>
> David Fanning, Ph.D.
>
> Fanning Software Consulting, Inc.
>
> Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
>
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Thanks a lot David,
Tomorrow I will try using it as structure in the MAP_PROJ_INVERSE function and I will let you know as soon as possible

cheers