

---

Subject: Re: ENVI\_GLT\_DOIT and ENVI\_GEOREF\_FROM\_GLT\_DOIT

Posted by [Oana Coman](#) on Thu, 30 May 2013 15:29:31 GMT

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

---

On Thursday, May 30, 2013 10:27:51 AM UTC-5, Kat wrote:

> Hi guys,  
>  
> I'm trying to use an envi batch file to automate georeferencing from GLT to try and put the pixels in an image in the right place according to their lat/lon position information. When I do the process by hand in ENVI it works fine, but once I try and run it through IDL none of it works.  
>  
>  
>  
> My first problem is that when I go to view the completed GLT, it does not have any header information or map information, so when I go to open the file and give it a file ID, it asks for header info (which I don't have), and if I don't give it a header info then it will have an invalid file ID. When I create a GLT file in regular ENVI, it doesn't give it any header or map info...so I'm not sure how to get around this issue. I think the invalid file ID is what's causing the second problem: The ENVI\_GEOREF\_FROM\_GLT\_DOIT doesn't even run. IDL seems to just skip past this procedure.  
>  
>  
>  
> Does anyone have an idea how to get around this missing header information?  
>  
>  
>  
>  
> This is my code:  
>  
> ;make projections for ENVI\_GLT\_DOIT  
>  
> inProj = ENVI\_PROJ\_CREATE(/GEOGRAPHIC) ;geographic lat/lon  
>  
> param=[3396190.0, 0.000000, 0.000000, 0.0, 0.0]  
>  
> outProj = ENVI\_PROJ\_CREATE(NAME='Mars Equirectangular Default', PARAMS=param,  
TYPE=17) ;mars equirectangular  
>  
>  
>  
> ENVI\_OPEN\_FILE, TRR, R\_FID=cTRR, NO\_REALIZE=1 ;I/F image  
>  
> ENVI\_FILE\_QUERY, cTRR, dims=TRRdims  
>  
> ENVI\_OPEN\_FILE, DRR, R\_FID=cDDR, NO\_REALIZE=1 ;lat/lon image  
>  
> ENVI\_FILE\_QUERY, cDDR, dims=DDRdims  
>  
>

```

>
> ;run super GLT
>
> outGLT = 'testGLT_15mpp'
>
> ENVI_DOIT, 'ENVI_GLT_DOIT', DIMS=DDRdims, I_PROJ=inProj, O_Proj=outProj,
OUT_NAME=outGLT, $
>
>      PIXEL_SIZE=15, R_FID/GLT15, ROTATION=0.0, /SUPER, $
>
>      X_FID=cDDR, X_POS=1, Y_FID=cDDR, Y_POS=0
>
>
>
> ;georeference TRR using super GLT
>
> ENVI_OPEN_FILE, outGLT, R_FID=OUT, NO_REALIZE=1
>
> print, 'open GLT files' ;this is where idl wants me to enter header information.
>
> ENVI_FILE_QUERY, OUT, ns=ns, nl=nl, nb=nb, dims=GLTdims
>
> print, 'get GLT file dims' ;dims end up being undefined
>
> outimage = 'GLTbatchTEST.IMG'
>
> ENVI_DOIT, 'ENVI_GEOREF_FROM_GLT_DOIT', BACKGROUND=0.0, FID=cTRR,
GLT_DIMS=GLTdims, GLT_FID=GLT15, $
>
>      OUT_NAME=outimage, R_FID = ATO_15mpp, SGL_NAME=outGLT, /SUPER

```

correction, ENVI\_OPEN\_FILE, outGLT, R\_FID=OUT, NO\_REALIZE=1 should read  
ENVI\_OPEN\_FILE, outGLT, R\_FID=GLT15, NO\_REALIZE=1. Either way, the FID is -1

---