Subject: Re: diferent results in program and envi Posted by Jeff N. on Wed, 01 Aug 2007 15:04:57 GMT

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On Aug 1, 4:58 am, "skymaxw...@gmail.com" <skymaxw...@gmail.com>
wrote:
> Hello. I have some images and some GCP for each. I georeferenced some
> of them by ENVI.
> now i want to do this by program. But my results are different. Why?
> Here is fragment of my source code
>
 ,,,,,,,,,,,,,,,,,,
>
 pts0=[[geo_points[0,0],geo_points[1,0],0.0,0.0],$
       [geo_points[0,1],geo_points[1,1],ns-1,0.0],$
>
       [geo_points[0,2],geo_points[1,2],0.0,nl-1],$
>
       [geo_points[0,3],geo_points[1,3],ns-1,nl-1],$
>
       print, 'pts0'
>
      print,pts0
>
>
       ;units=ENVI_TRANSLATE_PROJECTION_UNITS('Degrees')
>
      proj=ENVI PROJ CREATE(/GEOGRAPHIC)
>
      pixel_size=[0.00011710,0.00009006]
>
       ;proj=ENVI_PROJ_CREATE(/UTM,ZONE=UTM_Zone,DATUM='WGS-84')
>
>
      ENVI_DOIT, 'ENVI_REGISTER_DOIT',$
>
           W_FID=fid,$
>
           W POS=pos,$
           W DIMS=dims,$
>
           METHOD=5,$
>
           PIXEL SIZE=pixel size,$
>
           PTS=pts0,$
>
           PROJ=proj,$
>
           R_FID=r_fid,$
>
           OUT_NAME='D:\pts0',$
>
           OUT_BNAME='my transform'
  >
 and another question how define pixel size by my program?
> Thanks
```

How are the results different? How do you know which answer is the right one? (in other words: what if you're doing it wrong by hand?) And aren't you defining a pixel size in the code you just posted? Or are you asking how to calculate it I guess?

Jeff

Subject: Re: diferent results in program and envi Posted by skymaxwell@gmail.com on Wed, 01 Aug 2007 15:44:15 GMT View Forum Message <> Reply to Message

for example, for one image i have

in ENVI - resulting image size 13888 x 8884 in my program - 18057 x 6833

i think that in ENVI image more correct, it's more detailed as original non georeferenced image

Second question, yes you are right i define pixel size in my program from ENVI GUI how get pixel size WITHOUT ENVI GUI?

Subject: Re: diferent results in program and envi Posted by skymaxwell@gmail.com on Wed, 01 Aug 2007 18:09:45 GMT View Forum Message <> Reply to Message

first question is closed;) now it's works

second question about getting pixel size in program still active :(

- > Second question, yes you are right
- > i define pixel size in my program from ENVI GUI
- > how get pixel size WITHOUT ENVI GUI?

Subject: Re: diferent results in program and envi Posted by Jean H. on Wed, 01 Aug 2007 19:24:36 GMT

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skymaxwell@gmail.com wrote:
> first question is closed ;)
> now it's works
>
> second question about getting pixel size in program still active :(
>
>
> Second question, yes you are right
>> i define pixel size in my program from ENVI GUI
>> how get pixel size WITHOUT ENVI GUI ?

Well, if your image is georeferenced, you can do pixSizeX = (max(coord X) - min(coord X)) / nb of Pixels in the X direction

...if your image is not georeferenced, you would have to find it by other means... the best one is probably the metadata of your image / sensor! ... otherwise, to ESTIMATE it, you would need to identify two features on your image and you would have to know their exact coordinate or at least the distance between the 2 features. ... then you need to find the number of pixels in the X and Y direction between the two features... make sure to consider fractions of pixels! ... and you apply the same idea as if your image was georeferenced..

Hope that helps!

Jean

Subject: Re: diferent results in program and envi Posted by Jeff N. on Wed, 01 Aug 2007 20:05:30 GMT View Forum Message <> Reply to Message

On Aug 1, 2:09 pm, "skymaxw...@gmail.com" <skymaxw...@gmail.com> wrote:

- > first question is closed;)
- > now it's works

>

> second question about getting pixel size in program still active :(

>

- >> Second question, yes you are right
- >> i define pixel size in my program from ENVI GUI
- >> how get pixel size WITHOUT ENVI GUI?

I've clearly missed something fundamental here, b/c I really just don't get how you're able to come up with a value for a pixel size if you're using the ENVI GUI, but you can't come up with that value if you're writing a program. So I'm going to bow out of this one and let smarter people than me jump in :)

Jeff