## Subject: Re: subset an image by coordinates Posted by Alvaro Paredes L. on Sun, 20 Sep 2009 17:00:11 GMT

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On 20 sep, 10:24, Robert < robert.m...@gmail.com > wrote:
> On Sep 20, 8:12 am, Jeremy Bailin <astroco...@gmail.com> wrote:
>
>
>
>
>> On Sep 19, 11:14 pm, "Alvaro Paredes L." <alvaropared...@gmail.com>
>> wrote:
>>> Hi all
>>> I was searching on the web, but i didn't find an answer to my problem.
>>> I need to make asubseton animageusing
>>> coordinates, but i can't find a way to do it. I see this method
>>> http://groups.google.es/group/comp.lang.idl-pvwave/browse fr m/thread/...
>>> and this other (very
>>> similar) http://www.mombu.com/programming/idl/t-subset-an-image-by-ro i-in-idl-...,
>>> but don't use
>>> coordinates, use an evf file.
>
>>> IDL/ENVI has a widget that use only two coordinates to cut (upper-left
>>> and lower-right coordinate), but it isn't
>>> fully automatically.
>>> Is there any function to cut theimagewith set coordinates and save
>>> it in a new file?
>>> I really hope you can help me... I'm not a programmer and this
>>> sometimes it's very hard
>>> Thanks!
>>> Alvaro
>> Do you mean like:
>> newimage = oldimage[x0:x1,y0:y1]
>
```

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>> ?
>
>> -Jeremy.
>
> If the original author is looking to subset by map coordinates, he
> needs to use the procedure
> ENVI_CONVERT_FILE_COORDINATES, FID, XF, YF, XMap, YMap
> to convert the corners of hisimagein map coordinates to file
> coordinates. Once he has the proper file coordinates, he can subset
> theimage. If you give us a little more specifics of what you are
> trying to do, we can probably provide more information.
> r
Thanks for the quickly help. I have an image with degrees coordinates
and with the function that Robert suggested
(ENVI CONVERT FILE COORDINATES) i can transform coord to pixel value
without problems (as the script i show below). But i try to do that
Jeremy suggest, but i don't know if is it properly working
(image=img_file[XF,YF]??)
forward_function ENVI_CONVERT_FILE_COORDINATES
pro SUBSET
envi, /restore_base_save_files
envi batch init,log file='batch.txt'
; define the image to be opened
img file='F:\IMAGE\NDVI-HDF\try\NDVI 2008 03 02.img'
envi_open_file,img_file,r_fid=fid
print, 'fid=',fid
: define coordinates to make the subset
YMap=[-32.6030694, -32.9797194]
XMap=[-71.0580916, -70.5006694]
ENVI_CONVERT_FILE_COORDINATES, FID, XF, YF, XMap, YMap
rounds the pixel value to its closest integer.
XF=ROUND(XF)
YF=ROUND(YF)
;verify the conversion
print, 'X pixel',XF
print, 'Y pixel ',YF
```

;making the subset?????? image=img\_file[XF,YF]

; Exit Envi envi\_batch\_exit end

Finally, and maybe this is a basic question, how i save this "subset" in a .img file?

Thanks!

Alvaro