Subject: IDL array -> envi file.. distorted
Posted by Jelle on Wed, 02 Jul 2008 20:06:26 GMT
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Hi All,

I am sure I am doing something silly here, and hope there is a quick 'n easy fix for what I have done..

I am processing a whole series of images. As the composite ENVI files will contain 5000+ bands, I first process the images individually, store them on disk, and when I am done I read each of them and stack them. All in all the routine works. However, when I take an IDL array, and write it to a sympli ENVI file, my images become warped (A checkerboard appears on top of the actual patterns in the data). The data is fine when I do a tv, image, right before saving. The saved image is messed up. I tried swapping the NS / NL and that did not improve things. Also changing the ENVI header between BIL / BSQ and BIP does not help.

This is how I process, with irrelevant code in between removed:

```
; get the data:
  envi_open_file, ALL_FILES[i], /no_interactive_query, /no_realize,
r_fid = this_fid

  envi_file_query, this_fid, nb=nb, ns=ns, nl=nl,    $
              data_ignore_value=retrievedignorevalue,   $
              dims=dims, bnames=band_names


; Create a working data layer
  ThisBand        = fltarr(ns, nl, /nozero)

; subsequently for each band:
  OneLayer   = envi_get_data(dims=dims, fid=this_fid, pos=j)

; get the rain pixels
  RainPixels   = where(OneLayer GT RainTreshHold, raincount )

; Set the current rain bands to 0
  if(raincount GT 0) then begin
    ThisBand[RainPixels]    = 0
    print, 'rain'+string(j)+string(n_elements(RainPixels))
  endif
```

; write to disk

;==> this is where the ThisBand array gets messed up.. What am I doing
wrong?

```
envi_write_envi_file, ThisBand, data_type=2,          $
                      descrip   = 'Time since last rain on a pixel to
pixel basis, 15 minute steps (1=15mins).', $
                      map_info  = map_projection,          $
                      nl=nl, ns=ns, nb=1, r_fid=r_fid,         $
                      OUT_NAME     = outtempname
```
