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Subject: `enviconvert_file_coordinates`

Posted by [woods1](#) on Fri, 31 Jul 2009 09:40:47 GMT

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I have any problem,

here is my program, but the pixels values are not a same with the pixels values from the original image

```
filename = envi_pickfile(title = 'DeMarine-DEKO')
if(filename eq '')then return
```

```
envi_open_file, filename, r_fid=De_fid
```

```
envi_file_query, De_fid, ns=ns, nl=nl, nb=nb, pos=pos,$
dims=dims, data_type=type, sname=sname
```

```
dims = [-1L, 0, ns-1, 0, nl-1]
```

```
pos = lindgen(nb)
```

```
map_info = envi_get_map_info(fid =De_fid)
print, map_info
```

```
proj_u = map_info.proj; Auszug Projektion von Struktur $ MAP
proj_dd = envi_proj_create(/geographic);Projektion fuer lat/lon
Daten
```

```
proj_aa = envi_proj_create(/utm, zone= 37, /south, datum=8,
units=meters )
```

```
xf = [0, ns-1]
```

```
yf = [0, nl-1]
```

```
; Establish file coordinate system
```

```
fwest_p=1; NW corner of file is 0,0
```

```
fnorth_p=1; NW corner of file is 0,0
```

```
feast_p=fwest_p+ns
```

```
fsouth_p=fnorth_p+nl
```

```
; Establish map coordinate system
```

```
fxcent_p=map_info.mc[0]; UTM coordinates defined from center
```

```
fycent_p=map_info.mc[1]; UTM coordinates def. from center
```

```
fxcent_u=map_info.mc[2]
```

```
fycent_u=map_info.mc[3]
```

```
xpxsz_u=map_info.ps[0]
```

```
ypxsz_u=map_info.ps[1]
```

```
fwest_u=fxcent_u+(long(fwest_p-fxcent_p)*xpxsz_u)
```

```
feast_u=fxcent_u+(long(feast_p-fxcent_p)*xpxsz_u)
fnorth_u=fycent_u+(long(fycent_p-fnorth_p)*ypxsz_u)
fsouth_u=fycent_u+(long(fycent_p-fsouth_p)*ypxsz_u)
```

```
print, 'fxcent_p:',fxcent_p
print, 'fycent_p:',fycent_p
print, 'fxcent_u:',fxcent_u
print, 'fycent_u:',fycent_u
print, 'fwest_u:',fwest_u
print, 'feast_u:',feast_u
print, 'fnorth_u:',fnorth_u
print, 'fsouth_u:',fsouth_u
```

```
;convert map coordinate boundaries to DD
envi_convert_projection_coordinates,[fwest_u,feast_u,fxcent_u,
feast_u], $

[fycent_u,fycent_u,fsouth_u,fsouth_u],proj_aa,fcornerx_dd,fcornery_dd,proj_dd

print,fcornerx_dd
print,fcornery_dd

envi_convert_file_coordinates, De_fid, xmap, ymap, fcornerx_dd,
fcornery_dd
print, xmap
print, ymap

thank you for any help
```

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