
Subject: Re: How to read a multi-band image with IDL
Posted by [Jean H.](#) on Mon, 09 Feb 2009 14:23:15 GMT
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shi.bobopan@gmail.com wrote:

> Hello! I will write a supervised classification programme and want to
> read a multi-band ETM+ image with IDL. But ENVI_GET_DATA function can
> only read one band. It seems that READ_IMAGE function also read gray
> image or RGB image only. How can I read a multi-band image at one time?
> I am new in IDL. Thank you very much.

Hi,

from the top of my head, you could

- 1) open the file via ENVI_OPEN_FILE
- 2) get the image dimensions and other info (offset etc) via envi_file_query
- 3) read the data via read_binary

Jean

Subject: Re: How to read a multi-band image with IDL
Posted by [Mort Canty](#) on Mon, 09 Feb 2009 17:24:45 GMT
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shi.bobopan@gmail.com schrieb:

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Here's how I always do it:

```
envi_select, title='Choose multispectral image', $  
    fid=fid, dims=dims, pos=pos
```

```
num_cols = dims[2]-dims[1]+1  
num_rows = dims[4]-dims[3]+1  
num_bands = n_elements(pos)
```

```
; BIP array  
image = fltarr(num_bands,num_cols,num_rows)
```

```
for i=0,num_bands-1 do image[i,*,*] = $  
    envi_get_data(fid=fid,dims=dims,pos=pos[i])
```

