Subject: merging bands

Posted by beardown911 on Fri, 17 Jun 2011 14:33:17 GMT

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Dear all,

I'd like to merge three individual band into one single image file. Thing is that there are hundreds of single band files and how to find and identify to make three band composite.

Each band is 16-bit unsigned tif format image file with 1392x1040 array size.

Folder contains hundreds of files.

File name has sequence id in number and band id.

Here is an example of a file name; 4\_10\_R.tif.

First two number is a sequence ID and R stands for spectral band.

So, green band has G and NIR band has N letter in the file name.

But the sequence id is not in order. Sometimes it skips.

How to pick three matching individual band and composite to a singe three band stacked image?

Any tip would be appreciated.

Thank you, Kim

Subject: Re: merging bands

Posted by Konstantinos on Sat, 18 Jun 2011 12:08:37 GMT

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If i understand well what you want ill try t assist you

```
PRO merge_files_forum
```

CD, 'c:\.....'; full path of the directory you have your files

list\_of\_files\_R=FILE\_SEARCH('\*R.tiff')

list\_of\_files\_G=FILE\_SEARCH('\*G.tiff')

list of files B=FILE SEARCH('\*B.tiff')

number of files=N ELEMENTS(list of files R)

image=MAKE\_ARRAY(3, 1932, 1040)

FOR i=0, number\_of\_files-1 DO BEGIN

image\_R=READ\_TIFF(list\_of\_files\_R[i])

image\_G=READ\_TIFF(list\_of\_files\_G[i])

image\_B=READ\_TIFF(list\_of\_files\_B[i])

```
image[0,*,*]=image_R[*,*]
    image[1,*,*]=image_G[*,*]
     image[2,*,*]=image_B[*,*]
     :YOU CAN GIVE ANY FILENAME YOU WANT JUST GIVING YOU THIS FOR
EXAMPLE
    filename=STRING(i)+'.tiff'
     WRITE_TIFF, filename, image
 ENDFOR
END
I think that this piece of code should work for you.
I know that this code IS NOT WRITTEN THE BEST WAY, and it is also very
BAD AND PRIMITIVE IDL WRITING
kostas
Subject: Re: merging bands
Posted by beardown911 on Mon, 20 Jun 2011 14:52:57 GMT
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On Jun 18, 7:08 am, Konstantinos < moonlightsha...@hotmail.gr> wrote:
> If i understand well what you want i ll try t assist you
>
> PRO merge files forum
    CD, 'c:\......' ;full path of the directory you have your files
    list_of_files_R=FILE_SEARCH('*R.tiff')
>
    list_of_files_G=FILE_SEARCH('*G.tiff')
>
    list_of_files_B=FILE_SEARCH('*B.tiff')
>
    number of files=N ELEMENTS(list of files R)
>
    image=MAKE ARRAY(3, 1932, 1040)
>
>
    FOR i=0, number of files-1 DO BEGIN
>
       image_R=READ_TIFF(list_of_files_R[i])
>
       image G=READ TIFF(list of files G[i])
>
       image_B=READ_TIFF(list_of_files_B[i])
       image[0,*,*]=image_R[*,*]
>
       image[1,*,*]=image_G[*,*]
>
       image[2,*,*]=image_B[*,*]
>
       :YOU CAN GIVE ANY FILENAME YOU WANT JUST GIVING YOU THIS FOR
> EXAMPLE
       filename=STRING(i)+'.tiff'
>
       WRITE TIFF, filename, image
>
    ENDFOR
> END
> I think that this piece of code should work for you.
```

> I know that this code IS NOT WRITTEN THE BEST WAY, and it is also very

> BAD AND PRIMITIVE IDL WRITING

>

> kostas

Hi Kostas,

Thank you so much for your code. It worked. I just modified the writing tiff part using file "basename" function.

Thanks again and have a nice day, Kim

Subject: Re: merging bands

Posted by Konstantinos on Mon, 20 Jun 2011 23:48:45 GMT

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Kim,

Glad to be able to help you.

Any time, Thats wgy this forum is for.

Kostas