Subject: Problem regarding ENVI file opening

Posted by Suresh Negi on Thu, 01 Sep 2016 10:02:15 GMT

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I can't open file in IDL if it is tiff file of ENVY

I used this----

file = FILEPATH ('cal.tiff', SUBDIRECTORY = ['examples', 'data'])

even if it reads it shows no of band =3 and says it is a jpeg file.

Also tried read_tiff but same problem. Also blank window appears when try to display it. Kindly Help.

Is there any way to get complete band details.

Subject: Re: Problem regarding ENVI file opening Posted by Suresh Negi on Thu, 01 Sep 2016 10:13:08 GMT

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On Thursday, September 1, 2016 at 3:32:17 PM UTC+5:30, Suresh Negi wrote:

- > I can't open file in IDL if it is tiff file of ENVY
- > I used this----
- > file = FILEPATH ('cal.tiff', SUBDIRECTORY = ['examples', 'data'])
- > even if it reads it shows no of band =3 and says it is a jpeg file.
- > Also tried read_tiff but same problem. Also blank window appears when try to display it.
- > Kindly Help.

_

> Is there any way to get complete band details.

also i tried this but besides r,g,b,it is not taking arguments for my 5 band data. image = READ_TIFF('Composite_image1.tif', R, G,B)

If I am writing this image = READ_TIFF('Composite_image1.tif', R, G,B,X,V) then showing error.

Subject: Re: Problem regarding ENVI file opening Posted by Helder Marchetto on Thu, 01 Sep 2016 10:20:07 GMT View Forum Message <> Reply to Message

On Thursday, September 1, 2016 at 12:02:17 PM UTC+2, Suresh Negi wrote:

- > I can't open file in IDL if it is tiff file of ENVY
- > I used this----
- > file = FILEPATH ('cal.tiff', SUBDIRECTORY = ['examples', 'data'])
- > even if it reads it shows no of band =3 and says it is a jpeg file.
- > Also tried read tiff but same problem. Also blank window appears when try to display it.
- > Kindly Help.

>

> Is there any way to get complete band details.

Type this in the command line: IDL> query_tiff(file) or IDL> query_tiff('Composite_image1.tif') What does it show?

Cheers

Subject: Re: Problem regarding ENVI file opening Posted by Suresh Negi on Fri. 02 Sep 2016 05:08:29 GMT

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On Thursday, September 1, 2016 at 3:50:10 PM UTC+5:30, Helder wrote:

- > On Thursday, September 1, 2016 at 12:02:17 PM UTC+2, Suresh Negi wrote:
- >> I can't open file in IDL if it is tiff file of ENVY
- >> I used this----
- >> file = FILEPATH ('cal.tiff', SUBDIRECTORY = ['examples', 'data'])
- >> even if it reads it shows no of band =3 and says it is a jpeg file.
- >> Also tried read tiff but same problem. Also blank window appears when try to display it.
- >> Kindly Help.

>>

- >> Is there any way to get complete band details.
- > Type this in the command line:
- > IDL> query_tiff(file)
- > or
- > IDL> guery tiff('Composite image1.tif')

> What does it show?

> Cheers

Showing syntax error, can you please give me the script to open ENVI tiff file with full band information.

Thank You

Subject: Re: Problem regarding ENVI file opening Posted by Suresh Negi on Sun, 04 Sep 2016 13:29:34 GMT View Forum Message <> Reply to Message

On Friday, September 2, 2016 at 6:47:00 PM UTC+5:30, wlandsman wrote:

- > On Friday, September 2, 2016 at 1:08:31 AM UTC-4, Suresh Negi wrote:
- >> On Thursday, September 1, 2016 at 3:50:10 PM UTC+5:30, Helder wrote:

```
> .
>>>
>>> Type this in the command line:
>>> IDL> query_tiff(file)
>>> IDL> query_tiff('Composite_image1.tif')
>>> What does it show?
>>>
>>> Cheers
>>
>> Showing syntax error, can you please give me the script to open ENVI tiff file with full band
information.
>> Thank You
> What version of IDL do you have?
                                      If you have an old version (prior to V8.0 I think) you have
to type
> IDL> print, query_tiff('Composite_image1.tif')
> so you don't get a syntax error
```

Subject: Re: Problem regarding ENVI file opening Posted by Suresh Negi on Sun, 04 Sep 2016 13:30:10 GMT

```
View Forum Message <> Reply to Message
On Friday, September 2, 2016 at 6:47:00 PM UTC+5:30, wlandsman wrote:
> On Friday, September 2, 2016 at 1:08:31 AM UTC-4, Suresh Negi wrote:
>> On Thursday, September 1, 2016 at 3:50:10 PM UTC+5:30, Helder wrote:
> .
>>>
>>> Type this in the command line:
>>> IDL> query tiff(file)
>>> or
>>> IDL> query_tiff('Composite_image1.tif')
>>> What does it show?
>>>
>>> Cheers
>> Showing syntax error, can you please give me the script to open ENVI tiff file with full band
information.
>> Thank You
> What version of IDL do you have? If you have an old version (prior to V8.0 I think) you have
to type
>
```

```
IDL> print, query_tiff('Composite_image1.tif')so you don't get a syntax errorIt is showing 0
```

Subject: Re: Problem regarding ENVI file opening Posted by Helder Marchetto on Mon, 05 Sep 2016 08:08:00 GMT View Forum Message <> Reply to Message

```
On Sunday, September 4, 2016 at 3:30:13 PM UTC+2, Suresh Negi wrote:
> On Friday, September 2, 2016 at 6:47:00 PM UTC+5:30, wlandsman wrote:
>> On Friday, September 2, 2016 at 1:08:31 AM UTC-4, Suresh Negi wrote:
>>> On Thursday, September 1, 2016 at 3:50:10 PM UTC+5:30, Helder wrote:
>> .
>>>>
>>> Type this in the command line:
>>>> IDL> query_tiff(file)
>>> or
>>>> IDL> query_tiff('Composite_image1.tif')
>>>> What does it show?
>>>>
>>>> Cheers
>>> Showing syntax error, can you please give me the script to open ENVI tiff file with full band
information.
>>> Thank You
>>
>> What version of IDL do you have? If you have an old version (prior to V8.0 I think) you have
to type
>>
>> IDL> print, query_tiff('Composite_image1.tif')
>> so you don't get a syntax error
> It is showing 0
Ok, that's something to start with.
You see, if you type this:
IDL> print, query_tiff('thisFileDoesNotExist.tif')
You will always get zero. If the file exists, then you get something like this:
IDL> print, query_tiff('E:\aRealDirectory\thisFileExists.tif')
```

1

Now here is the catch. This is all described here:

http://www.harrisgeospatial.com/docs/QUERY_TIFF.html

and here:

http://www.harrisgeospatial.com/docs/query___routines.html

And you can do more... once you get a 1 as a response (the file exists!) then you can try this:

IDL> print, query_tiff('E:\aRealDirectory\thisFileExists.tif', moreInfo)

1

IDL> help, moreInfo

** Structure <16c13620>, 19 tags, length=152, data length=136, refs=1:

CHANNELS LONG **DIMENSIONS** LONG Array[2] HAS_PALETTE INT 0 IMAGE_INDEX LONG 0 NUM IMAGES LONG 1 PIXEL TYPE INT 12 TYPE STRING 'TIFF' BITS PER SAMPLE LONG 16 LONG ORIENTATION PLANAR CONFIG LONG 1 PHOTOMETRIC LONG **POSITION** FLOAT Array[2] Array[2] RESOLUTION FLOAT UNITS LONG 2 TILE_SIZE **LONG** Array[2] DESCRIPTION **STRING** DOCUMENT NAME STRING DATE TIME STRING VERSION LONG 42

You see what happened? He got a lot of information from the tiff header! If you want to know what the dimensions are, then type:

IDL> print, moreInfo.dimensions

1024 1024

My file has 1024 rows and 1024 columns.

See how it works?

Try the above and see what happens. Remember to put the full path ('E:\aRealDirectory\') before the file name (an alternative would be to use the CD command, but one thing at a time...).

Try reading the documentation. It IS helpful.

Good luck!

Subject: Re: Problem regarding ENVI file opening Posted by Suresh Negi on Tue, 06 Sep 2016 07:57:28 GMT

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```
On Monday, September 5, 2016 at 1:38:04 PM UTC+5:30, Helder wrote:
> On Sunday, September 4, 2016 at 3:30:13 PM UTC+2, Suresh Negi wrote:
>> On Friday, September 2, 2016 at 6:47:00 PM UTC+5:30, wlandsman wrote:
>>> On Friday, September 2, 2016 at 1:08:31 AM UTC-4, Suresh Negi wrote:
>>> On Thursday, September 1, 2016 at 3:50:10 PM UTC+5:30, Helder wrote:
>>> .
>>>> >
>>>> > Type this in the command line:
>>> > IDL> query_tiff(file)
>>>> or
>>> > IDL> query_tiff('Composite_image1.tif')
>>>> >
>>>> > What does it show?
>>>> >
>>>> > Cheers
>>> Showing syntax error. can you please give me the script to open ENVI tiff file with full band
information.
>>>> Thank You
>>>
>>> What version of IDL do you have? If you have an old version (prior to V8.0 I think) you
have to type
>>>
>>> IDL> print, query_tiff('Composite_image1.tif')
>>> so you don't get a syntax error
>>
>> It is showing 0
> Ok, that's something to start with.
 You see, if you type this:
>
> IDL> print, query_tiff('thisFileDoesNotExist.tif')
         0
>
>
  You will always get zero. If the file exists, then you get something like this:
 IDL> print, query_tiff('E:\aRealDirectory\thisFileExists.tif')
>
>
> Now here is the catch. This is all described here:
> http://www.harrisgeospatial.com/docs/QUERY TIFF.html
> and here:
> http://www.harrisgeospatial.com/docs/query___routines.html
> And you can do more... once you get a 1 as a response (the file exists!) then you can try this:
```

```
>
 IDL> print, query_tiff('E:\aRealDirectory\thisFileExists.tif', moreInfo)
>
>
 IDL> help, moreInfo
  ** Structure <16c13620>, 19 tags, length=152, data length=136, refs=1:
    CHANNELS
                   LONG
>
    DIMENSIONS
                    LONG
                              Array[2]
>
   HAS_PALETTE
                     INT
                                0
>
   IMAGE INDEX
                    LONG
                                    0
                     LONG
                                     1
   NUM IMAGES
>
   PIXEL TYPE
                   INT
                              12
>
                          'TIFF'
   TYPE
                STRING
>
    BITS_PER_SAMPLE LONG
                                       16
>
    ORIENTATION
                    LONG
                                    1
>
    PLANAR_CONFIG LONG
>
>
    PHOTOMETRIC
                      LONG
                                     1
    POSITION
                  FLOAT
                            Array[2]
>
    RESOLUTION
                     FLOAT
                              Array[2]
>
   UNITS
                LONG
                                2
>
   TILE SIZE
                  LONG
                           Array[2]
>
   DESCRIPTION
                     STRING
>
   DOCUMENT NAME STRING
>
    DATE TIME
                   STRING
>
    VERSION
                  LONG
                                 42
>
>
You see what happened? He got a lot of information from the tiff header! If you want to know
what the dimensions are, then type:
 IDL> print, moreInfo.dimensions
      1024
                1024
>
 My file has 1024 rows and 1024 columns.
>
 See how it works?
>
>
 Try the above and see what happens. Remember to put the full path ('E:\aRealDirectory\')
before the file name (an alternative would be to use the CD command, but one thing at a time...).
  Try reading the documentation. It IS helpful.
>
>
 Good luck!
```

Thank you very much. Now I can read 3 band tiff in it, but one thing i want to know that is there any difference in reading ENVI COMPOSITE TIFF file in IDL. From that command it is showing 0 but it is opening in ENVY. Please help.