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Subject: Re: getting GeoTiff Information

Posted by [penteado](#) on Mon, 16 Aug 2010 16:47:34 GMT

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On Aug 16, 1:41 pm, Steve McAlister <s.mcalist...@gmail.com> wrote:

> Hello all!

>

> I am aware of the 'geotiffinfo' command in

Matlab.<http://www.mathworks.de/access/helpdesk/help/toolbox/map/ref/geotiffi...>

>

> Do you know of equivalent way of converting geotiff structure to a

> readable format using IDL only (without ENVI)?

>

> Thanks a lot for help!

>

> Steve

Sounds like the geotiff keyword to read\_tiff().

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Subject: Re: getting GeoTiff Information

Posted by [Steve McAlister](#) on Mon, 16 Aug 2010 17:04:04 GMT

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On Aug 16, 10:47 am, Paulo Penteado <pp.pente...@gmail.com> wrote:

> On Aug 16, 1:41 pm, Steve McAlister <s.mcalist...@gmail.com> wrote:

>

>> Hello all!

>

>> I am aware of the 'geotiffinfo' command in

Matlab.<http://www.mathworks.de/access/helpdesk/help/toolbox/map/ref/geotiffi...>

>

>> Do you know of equivalent way of converting geotiff structure to a

>> readable format using IDL only (without ENVI)?

>

>> Thanks a lot for help!

>

>> Steve

>

> Sounds like the geotiff keyword to read\_tiff().

Hi Paulo,

geotiff keyword from read\_tiff will give me projection information in structure of GeoTiff like:

```
MODELPIXELSCALETAG
      DOUBLE Array[3]
MODELTIEPOINTTAG
```

```
        DOUBLE  Array[6, 1]
GTMODELTYPEGEOKEY
        INT      1
GTRASTERTYPEGEOKEY
        INT      1
GEOGLINEARUNITSGEOKEY
        INT      9001
GEOGANGULARUNITSGEOKEY
        INT      9102
PROJECTEDCSTYPEGEOKEY
        INT      26713
```

But, I want something more sensible for users to read like:

```
PCS: 'NAD83 / Massachusetts Mainland'
Projection: 'SPCS83 Massachusetts Mainland zone (m)'
MapSys: 'STATE_PLANE_83'
Zone: 2001
CTProjection: 'CT_LambertConfConic_2SP'
ProjParm: [7x1 double]
ProjParmId: {7x1 cell}
GCS: 'NAD83'
Datum: 'North American Datum 1983'
Ellipsoid: 'GRS 1980'
```

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Subject: Re: getting GeoTiff Information

Posted by [penteado](#) on Mon, 16 Aug 2010 17:22:21 GMT

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On Aug 16, 2:04 pm, Steve McAlister <s.mcalist...@gmail.com> wrote:

> geotiff keyword from read\_tiff will give me projection information in  
> structure of GeoTiff like:

```
>
> MODELPIXELSCALETAG
>     DOUBLE  Array[3]
> MODELTIEPOINTTAG
>     DOUBLE  Array[6, 1]
> GTMODELTYPEGEOKEY
>     INT      1
> GTRASTERTYPEGEOKEY
>     INT      1
> GEOGLINEARUNITSGEOKEY
>     INT      9001
> GEOGANGULARUNITSGEOKEY
>     INT      9102
> PROJECTEDCSTYPEGEOKEY
>     INT      26713
```

```

>
> But, I want something more sensible for users to read like:
>
>         PCS: 'NAD83 / Massachusetts Mainland'
>         Projection: 'SPCS83 Massachusetts Mainland zone (m)'
>         MapSys: 'STATE_PLANE_83'
>         Zone: 2001
>         CTProjection: 'CT_LambertConfConic_2SP'
>         ProjParm: [7x1 double]
>         ProjParmId: {7x1 cell}
>         GCS: 'NAD83'
>         Datum: 'North American Datum 1983'
>         Ellipsoid: 'GRS 1980'

```

Yes, the structure uses the numeric codes. Maybe David's geocoord (<http://www.dfanning.com/documents/programs.html#GEOCOORD>) can be useful in translating them into names.

Also, see

[http://www.dfanning.com/map\\_tips/tiffoverlay.html](http://www.dfanning.com/map_tips/tiffoverlay.html)

Subject: Re: getting GeoTiff Information

Posted by [Steve McAlister](#) on Mon, 16 Aug 2010 20:01:11 GMT

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On Aug 16, 11:22 am, Paulo Penteado <pp.pente...@gmail.com> wrote:

> On Aug 16, 2:04 pm, Steve McAlister <s.mcalist...@gmail.com> wrote:

```

>
>
>
>
>
>

```

>> geotiff keyword from read\_tiff will give me projection information in

>> structure of GeoTiff like:

```

>
>>  MODELPIXELSCALETAG
>>          DOUBLE  Array[3]
>>  MODELTIEPOINTTAG
>>          DOUBLE  Array[6, 1]
>>  GTMODELTYPEGEOKEY
>>          INT      1
>>  GTRASTERTYPEGEOKEY
>>          INT      1
>>  GEOLINEARUNITSGEOKEY
>>          INT      9001
>>  GEOANGULARUNITSGEOKEY

```

```
>>          INT      9102
>> PROJECTEDCSTYPEGEOKEY
>>          INT      26713
>
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>
>>          PCS: 'NAD83 / Massachusetts Mainland'
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>>          MapSys: 'STATE_PLANE_83'
>>          Zone: 2001
>>          CTProjection: 'CT_LambertConfConic_2SP'
>>          ProjParm: [7x1 double]
>>          ProjParmId: {7x1 cell}
>>          GCS: 'NAD83'
>>          Datum: 'North American Datum 1983'
>>          Ellipsoid: 'GRS 1980'
>
> Yes, the structure uses the numeric codes. Maybe David's geocoord
> (http://www.dfanning.com/documents/programs.html#GEOCOORD) can be
> useful in translating them into names.
>
> Also, see
>
> http://www.dfanning.com/map\_tips/tiffoverlay.html
```

Thank you Paul! David's code was very helpful.

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