
Subject: Re: create geotiff

Posted by [David Fanning](#) on Tue, 25 Sep 2007 18:43:26 GMT

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kerber_80@yahoo.com writes:

- > can you help me with creating geoTIFF format.
- > I have image and geographic data but i can't understand how geoTIFF
- > created. what parameters is needed ???

This might help:

<http://www.ittvis.com/services/techtip.asp?ttid=4034>

Although it sort of begs the question of where those values come from. Maybe you know. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: create geotiff

Posted by [KRDean](#) on Wed, 26 Sep 2007 14:27:39 GMT

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- >
- > Although it sort of begs the question of where those values
- > come from. Maybe you know. :-)
- >

All those values can be found in the "GeoTIFF Format Specification" ...

<http://www.remotesensing.org/geotiff/spec/geotiffhome.html>

Kelly Dean

Fort Collins, CO

Subject: Re: create geotiff

Posted by [David Fanning](#) on Wed, 26 Sep 2007 14:42:16 GMT

kBob writes:

- > All those values can be found in the "GeoTIFF Format
- > Specification" ...
- >
- > <http://www.remotesensing.org/geotiff/spec/geotiffhome.html>

I guess what I meant was, what do those things in the spec mean!?
For example:

ProjectedCSTypeGeoKey: 32767, \$; (user-defined)

What the heck is Projected CS Type and why is it user-defined
in this case? God knows I'd *try* to define it if I knew what
the hell it was! :-)

Cheers,

David

--

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Subject: Re: create geotiff

Posted by [Paul Van Delst\[1\]](#) on Wed, 26 Sep 2007 14:51:44 GMT

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David Fanning wrote:

- > kBob writes:
- >
- >> All those values can be found in the "GeoTIFF Format
- >> Specification" ...
- >>
- >> <http://www.remotesensing.org/geotiff/spec/geotiffhome.html>
- >
- > I guess what I meant was, what do those things in the spec mean!?
- > For example:
- >
- > ProjectedCSTypeGeoKey: 32767, \$; (user-defined)
- >
- > What the heck is Projected CS Type and why is it user-defined
- > in this case? God knows I'd *try* to define it if I knew what
- > the hell it was! :-)

Well, there's a rather exhaustive list of the various types at the mentioned site above. Google can help explain the acronyms, e.g. CS == coordinate system (and there's a glossary at the end of the spec.)

<http://www.remotesensing.org/geotiff/spec/geotiff6.html#6.3.3.1>

6.3.3.1 Projected CS Type Codes

Ranges:

[1, 1000] = Obsolete EPSG/POSC Projection System Codes

[20000, 32760] = EPSG Projection System codes

32767 = user-defined

[32768, 65535] = Private User Implementations

Special Ranges:

1. For PCS utilizing GeogCS with code in range 4201 through 4321: As far as is possible the PCS code will be of the format gggzz where ggg is (geodetic datum code -4000) and zz is zone.

2. For PCS utilizing GeogCS with code out of range 4201 through 4321 (i.e. geodetic datum code 6201 through 6319). PCS code 20xxx where xxx is a sequential number.

3. Other:

WGS72 / UTM northern hemisphere: 322zz where zz is UTM zone number

WGS72 / UTM southern hemisphere: 323zz where zz is UTM zone number

WGS72BE / UTM northern hemisphere: 324zz where zz is UTM zone number

WGS72BE / UTM southern hemisphere: 325zz where zz is UTM zone number

WGS84 / UTM northern hemisphere: 326zz where zz is UTM zone number

WGS84 / UTM southern hemisphere: 327zz where zz is UTM zone number

US State Plane (NAD27): 267xx/320xx

US State Plane (NAD83): 269xx/321xx

Values:

PCS_Adindan_UTM_zone_37N = 20137

PCS_Adindan_UTM_zone_38N = 20138

PCS_AGD66_AMG_zone_48 = 20248

PCS_AGD66_AMG_zone_49 = 20249

PCS_AGD66_AMG_zone_50 = 20250

PCS_AGD66_AMG_zone_51 = 20251

PCS_AGD66_AMG_zone_52 = 20252

PCS_AGD66_AMG_zone_53 = 20253

PCS_AGD66_AMG_zone_54 = 20254

PCS_AGD66_AMG_zone_55 = 20255

PCS_AGD66_AMG_zone_56 = 20256

..etc..etc..etc...and...etc...

Subject: Re: create geotiff

Posted by [David Fanning](#) on Wed, 26 Sep 2007 15:06:58 GMT

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Paul van Delst writes:

- > 3. Other:
- > WGS72 / UTM northern hemisphere: 322zz where zz is UTM zone number
- > WGS72 / UTM southern hemisphere: 323zz where zz is UTM zone number
- > WGS72BE / UTM northern hemisphere: 324zz where zz is UTM zone number
- > WGS72BE / UTM southern hemisphere: 325zz where zz is UTM zone number
- > WGS84 / UTM northern hemisphere: 326zz where zz is UTM zone number
- > WGS84 / UTM southern hemisphere: 327zz where zz is UTM zone number
- > US State Plane (NAD27): 267xx/320xx
- > US State Plane (NAD83): 269xx/321xx
- > Values:
- > PCS_Adindan_UTM_zone_37N = 20137
- > PCS_Adindan_UTM_zone_38N = 20138
- > PCS_AGD66_AMG_zone_48 = 20248
- > PCS_AGD66_AMG_zone_49 = 20249
- > PCS_AGD66_AMG_zone_50 = 20250
- > PCS_AGD66_AMG_zone_51 = 20251
- > PCS_AGD66_AMG_zone_52 = 20252
- > PCS_AGD66_AMG_zone_53 = 20253
- > PCS_AGD66_AMG_zone_54 = 20254
- > PCS_AGD66_AMG_zone_55 = 20255
- > PCS_AGD66_AMG_zone_56 = 20256
- >
- > ..etc..etc..etc...and...etc...

Is there an English translation somewhere. :-(

Cheers,

David

--

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Subject: Re: create geotiff

Posted by [Paul Van Delst\[1\]](#) on Wed, 26 Sep 2007 16:33:45 GMT

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David Fanning wrote:

- > Paul van Delst writes:

>
>> 3. Other:
>> WGS72 / UTM northern hemisphere: 322zz where zz is UTM zone number
>> WGS72 / UTM southern hemisphere: 323zz where zz is UTM zone number
>> WGS72BE / UTM northern hemisphere: 324zz where zz is UTM zone number
>> WGS72BE / UTM southern hemisphere: 325zz where zz is UTM zone number
>> WGS84 / UTM northern hemisphere: 326zz where zz is UTM zone number
>> WGS84 / UTM southern hemisphere: 327zz where zz is UTM zone number
>> US State Plane (NAD27): 267xx/320xx
>> US State Plane (NAD83): 269xx/321xx
>> Values:
>> PCS_Adindan_UTM_zone_37N = 20137
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>> PCS_AGD66_AMG_zone_48 = 20248
>> PCS_AGD66_AMG_zone_49 = 20249
>> PCS_AGD66_AMG_zone_50 = 20250
>> PCS_AGD66_AMG_zone_51 = 20251
>> PCS_AGD66_AMG_zone_52 = 20252
>> PCS_AGD66_AMG_zone_53 = 20253
>> PCS_AGD66_AMG_zone_54 = 20254
>> PCS_AGD66_AMG_zone_55 = 20255
>> PCS_AGD66_AMG_zone_56 = 20256
>>
>> ..etc..etc..etc...and...etc...
>
> Is there an English translation somewhere. :-(

Maybe here:

<http://support.esri.com/index.cfm?fa=knowledgeBase.gateway>

Somewhere....

?

Subject: Re: create geotiff

Posted by [David Fanning](#) on Wed, 26 Sep 2007 16:47:49 GMT

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Paul van Delst writes:

> Maybe here:

>

> <http://support.esri.com/index.cfm?fa=knowledgeBase.gateway>

>

> Somewhere....

Yeah, somewhere there...

Cheers,

David

--

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