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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...

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