

QGIS Application - Bug report #4806

Wrong legends/ramps for rasters

2012-01-13 07:51 AM - Giovanni Manghi

Status:	Closed	
Priority:	High	
Assignee:		
Category:	Rasters	
Affected QGIS version:	master	Regression?: No
Operating System:		Easy fix?: No
Pull Request or Patch supplied:	No	Resolution: fixed
Crashes QGIS or corrupts data:	No	Copied to github as #: 14658
Description		
Steps:		
- add the attached raster (is a DEM)		
- calculate the "aspect" map with the terrain analysis tool or with the gdaldem tool		
The min/max values of the output are		
STATISTICS_MINIMUM=0		
STATISTICS_MAXIMUM=359.87353515625		
but the legend will show values as		
-9.8		
398.8		
which do not make any sense (see attached screenshot)		
Another example is if you reclassify (with the raster calculator) the same DEM to a map with just "0" and "1"		
- (dem_clipped@1>300)*1 + (dem_clipped@1<=300)*0		
the resulting map will show a legend with values as		
0.3		
1.4		
that once again do not make any sense.		

History

#1 - 2012-01-15 03:17 AM - Alexander Bruy

Not reproducible here with latest qgis-dev (-37) from OSGeo4W under 32bit Windows XP Pro SP3. Also tested under 32bit Slackware 13.37 with latest master (4413a7d), GDAL 1.9.0 with same result — not reproducible.

#2 - 2012-01-15 03:25 AM - Giovanni Manghi

Alexander Bruy wrote:

Not reproducible here with latest qgis-dev (-37) from OSGeo4W under 32bit Windows XP Pro SP3. Also tested under 32bit Slackware 13.37 with latest master (4413a7d), GDAL 1.9.0 with same result — not reproducible.

Hi Alexander, that's weird, I also tested qgis master on both Windows and Linux. Do you mean that you are getting legends with the expected values?

#3 - 2012-01-15 03:30 AM - Alexander Bruy

Giovanni Manghi wrote:

Hi Alexander, that's weird, I also tested qgis master on both Windows and Linux. Do you mean that you are getting legends with the expected values?

Right, I get correct legend values. In case with reclassified DEM this is 0 and 1. In case with "aspect" analysis results this is 0.14579 and 360. Maybe this is because you use 64bit system?

#4 - 2012-01-15 03:52 AM - Giovanni Manghi

Alexander Bruy wrote:

Giovanni Manghi wrote:

Hi Alexander, that's weird, I also tested qgis master on both Windows and Linux. Do you mean that you are getting legends with the expected values?

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My Linux box is 64 bit but my Windows VM is 32 bit, so should be something else. But what?

#5 - 2012-01-16 03:09 AM - Paolo Cavallini

Confirmed here on Debian unstable 64bit (values from -8 to +399)

#6 - 2012-01-16 05:23 AM - Giovanni Manghi

But I'm sure I got the same also on a 32bit system...

#7 - 2012-01-22 06:11 AM - Giovanni Manghi

- File dem_clipped.tif added

loading the attached raster (dem_lipped.tif), without applying any particular color map, in the legend I see a "-32767-32768" that I also don't understand

#8 - 2012-01-22 06:20 AM - Alexander Bruy

Giovanni Manghi wrote:

loading the attached raster (dem_lipped.tif), without applying any particular color map, in the legend I see a "-32767-32768" that I also don't understand

Confirmed but only when contrast enhancement is "Not set" or "Clip to MinMax". In all other cases I get correct values.
After looking into code I found that legend values are gathered from QgsContrastEnhancement object, so if contrast enhancement is "Not set" there are no values found and defaults used.

#9 - 2012-04-16 06:32 AM - Paolo Cavallini

- Target version changed from Version 1.7.4 to Version 1.8.0

#10 - 2012-09-04 11:54 AM - Paolo Cavallini

- Target version changed from Version 1.8.0 to Version 2.0.0

#11 - 2012-10-04 04:42 PM - Giovanni Manghi

- Resolution set to fixed
- Status changed from Open to Closed

This has been fixed in master.

Files			
dem_clipped.tif	498 KB	2012-01-13	Giovanni Manghi
26.png	576 KB	2012-01-13	Giovanni Manghi
dem_clipped.tif	498 KB	2012-01-22	Giovanni Manghi