QGIS Application - Bug report #869
Grayscale Raster Always Displayed w. Std. Deviations

2007-12-14 12:20 PM - David A- Riggs -

Status:	Closed		
Priority:	Low		
Assignee:	ersts -		
Category:	Rasters		
Affected QGIS version:		**Regression?:**	No
Operating System:	Debian	**Easy fix?:**	No
Pull Request or Patch supplied:		**Resolution:**	fixed
Crashes QGIS or corrupts data:		**Copied to github as #:**	10928

Description

I just installed the test 0.9.1-1 .debs for Gutsy (on Gutsy i386) and note the following problem.

Opening the same [[GeoTIFF]] raster elevation model that I've used for many version of QGIS. The elevation model is displayed as if "Std Deviations" has been set to some non-zero value. Changing "Std Deviations" has no effect, it seems "stuck" behind the scenes to some value despite what the UI says. Changing the color map to Pseudocolor or Freak Out works exactly as expected, and the Std Deviations value works as expected with these color maps.

It appears that Std Deviations is "stuck" on some value when using the Grayscale color map.

History

#1 - 2007-12-14 12:26 PM - David A- Riggs -

Metadata from a file which produces this error:

    Driver:
     GTiff
     [[GeoTIFF]]

    Dataset Description
     /var/space/gis/raster/elevation/nad83/lake_lynn_pa_wv.tif

    AREA_OR_POINT=Area
    TIFFTAG_SOFTWARE=IMAGINE TIFF Support Copyright 1991 - 1999 by ERDAS, Inc. All Rights Reserved @(#)$RCSfile: etif.c $ $Revision:
    1.11 $ $Date$
    TIFFTAG_XRESOLUTION=1
    TIFFTAG_YRESOLUTION=1
    TIFFTAG_RESOLUTIONUNIT=1 (unitless)
    AREA_OR_POINT=Area
    TIFFTAG_SOFTWARE=IMAGINE TIFF Support Copyright 1991 - 1999 by ERDAS, Inc. All Rights Reserved @(#)$RCSfile: etif.c $ $Revision:
    1.11 $ $Date$
    TIFFTAG_XRESOLUTION=1
    TIFFTAG_YRESOLUTION=1
    TIFFTAG_RESOLUTIONUNIT=1 (unitless)

    Dimensions:
     X: 3634 Y: 4672 Bands: 1

    No Data Value

-9999

Data Type:
  GDT_UInt16 - Sixteen bit unsigned integer

Pyramid overviews:
  X : 907,Y 1166
  X : 452,Y 582
  X : 225,Y 290
  X : 111,Y 144
  X : 54,Y 71

Layer Spatial Reference System:
  +proj=utm +zone=17 +ellps=GRS80 +datum=NAD83 +units=m +no_defs

Origin:
  596380,4.40076e+06

Pixel Size:
  3,-3

Property Value

Band   Gray
Band No   1
Min Val   0.0000000000
Max Val   2641.0000000000
Range   2641.0000000000
Mean   1364.1422126351
Sum of squares   8671775615451.3574218750
Standard Deviation 714.6775668741
Sum of all cells   23160471964.9457092285
Cell Count   16978048

#2 - 2007-12-14 12:29 PM - David A- Riggs -

Test files (3m DEM in [[GeoTIFF]] format) here:

ftp://ftp.wvgis.wvu.edu/pub/Clearinghouse/DEM/3m/Tiff

#3 - 2007-12-30 06:19 PM - ersts -

This is because the stretching routines were reintroduced and only partially accepted before being moved to the raster transparency branch. If the raster branch does not get merged into 0.9.2 I will create a patch to fix this for 0.9.2

#4 - 2008-01-10 11:38 PM - ersts -

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