

QGIS Application - Bug report #914

8 bit paletted geotif tries to render as 3 band color. Crash on Load Min Max

2008-01-17 01:36 PM - cgs_bob -

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 #: 10973
Description		
According to the Raster Layer Properties, my 8 bit paletted geotif will be rendered as a 3 band color, which is not correct. It should be treated like a grayscale image with a custom color table based on the rasters palette. I also wanted to report that you can also click on Load Min Max From Band(s), which promptly crashes qgis with the message: <pre>Debug: /home/bobm/src/gis/qgis_svn/src/core/qgsmaplayer.cpp: 106: (name) [[QgsMapLayer]]::name: returning name 'LQ_agw_idx'</pre> <pre>Debug: /home/bobm/src/gis/qgis_svn/src/core/raster/qgsrasterlayer.cpp: 1284: (draw) [[QgsRasterLayer]]::draw (3 arguments)</pre> <pre>Debug: /home/bobm/src/gis/qgis_svn/src/core/raster/qgsrasterlayer.cpp: 1942: (drawPalettedMultiBandColor) [[QgsRasterLayer]]::drawPalettedMultiBandColor called</pre> <pre>Debug: /home/bobm/src/gis/qgis_svn/src/core/raster/qgsrasterlayer.cpp: 4112: (readData) [[QgsRasterLayer]]::readData: calling [[RasterIO]] with , source NW corner: 0, 0, source size: 2173, 2806, dest size: 120, 120</pre> <pre>Debug: /home/bobm/src/gis/qgis_svn/src/core/raster/qgsrasterlayer.cpp: 5283: (paintImageToCanvas) [[QgsRasterLayer]]::drawSingleBandGray: painting image to canvas from 0, 0 to 0, 0.</pre> <pre>Debug: /home/bobm/src/gis/qgis_svn/src/core/raster/qgsrasterlayer.cpp: 2889: (getLegendQPixmap) [[QgsRasterLayer]]::getLegendQPixmap called (PALETTED_MULTI_BAND_COLOR)</pre> <pre>Debug: /home/bobm/src/gis/qgis_svn/src/core/raster/qgsrasterlayer.cpp: 932: (getPaletteAsPixmap) [[QgsRasterLayer]]::getPaletteAsPixmap</pre> <pre>Debug: /home/bobm/src/gis/qgis_svn/src/core/raster/qgsrasterlayer.cpp: 874: (hasBand) Looking for band : Palette</pre> <pre>Debug: /home/bobm/src/gis/qgis_svn/src/core/raster/qgsrasterlayer.cpp: 881: (hasBand) band = 1</pre> <pre>Debug: /home/bobm/src/gis/qgis_svn/src/core/raster/qgsrasterlayer.cpp: 887: (hasBand) band = 1</pre> <pre>Debug: /home/bobm/src/gis/qgis_svn/src/core/raster/qgsrasterlayer.cpp: 941: (getPaletteAsPixmap)found paletted image</pre> <pre>Debug: /home/bobm/src/gis/qgis_svn/src/core/raster/qgsrasterlayer.cpp: 946: (getPaletteAsPixmap)found GCI_PaletteIndex</pre> <pre>Debug: /home/bobm/src/gis/qgis_svn/src/core/raster/qgsrasterlayer.cpp: 949: (getPaletteAsPixmap) myMin = 0 myMax = 255</pre> <pre>Debug: /home/bobm/src/gis/qgis_svn/src/app/qgsrasterlayerproperties.cpp: 782: (sync) [[QgsRasterLayerProperties]]::sync populate metadata tab</pre> <pre>Debug: /home/bobm/src/gis/qgis_svn/src/core/raster/qgsrasterlayer.cpp: 3557: (getMetadata) band 1 has no categories</pre> <pre>Debug: /home/bobm/src/gis/qgis_svn/src/core/raster/qgsrasterlayer.cpp: 3719: (getMetadata) Raster properties : checking if band 1 has stats?</pre> <pre>Debug: /home/bobm/src/gis/qgis_svn/src/core/raster/qgsrasterlayer.cpp: 3738: (getMetadata)no</pre> <pre>Debug: /home/bobm/src/gis/qgis_svn/src/core/raster/qgsrasterlayer.cpp: 2310: (getRasterBandNumber) myRasterBandStats.bandName: 1 : Palette :: theBandNameQString: Red</pre> <pre>Debug: /home/bobm/src/gis/qgis_svn/src/core/raster/qgsrasterlayer.cpp: 2320: (getRasterBandNumber) ***** no band was found in getRasterBandNumber Red</pre> <pre>Debug: /home/bobm/src/gis/qgis_svn/src/core/raster/qgsrasterlayer.cpp: 2310: (getRasterBandNumber) myRasterBandStats.bandName: 1 : Palette :: theBandNameQString: Red</pre> <pre>Debug: /home/bobm/src/gis/qgis_svn/src/core/raster/qgsrasterlayer.cpp: 2320: (getRasterBandNumber) ***** no band was found in getRasterBandNumber Red</pre> <pre>Debug: /home/bobm/src/gis/qgis_svn/src/core/raster/qgscolortable.cpp: 40: (QgsColorTable) [[QgsColorTable]]::QgsColorTable()</pre>		

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Debug: /home/bobm/src/gis/qgis_svn/src/core/raster/qgsrasterlayer.cpp: 2310: (getRasterBandNumber)
myRasterBandStats.bandName: 1 : Palette :: theBandNameQString: Red
Debug: /home/bobm/src/gis/qgis_svn/src/core/raster/qgsrasterlayer.cpp: 2320: (getRasterBandNumber) ***** no band was
found in getRasterBandNumber Red
Fatal: ASSERT failure in QList<T>::operator[]: "index out of range", file /usr/include/qt4/QtCore/qlist.h, line 394
Aborted
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History

#1 - 2008-01-19 06:16 PM - ersts -

The crash has been taken care of.

I am going to leave this ticket open, because now that there is a shader class and color ramp shader , all paletted images can and should be display as cgs_bob indicates. This however is not going to make it into 0.9.2.

I am also downgrading the Priority as the crash has been taken care of.

#2 - 2008-08-27 09:16 PM - ersts -

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

Paletted images no longer open as faux RGB but as single band images with a colormap.

Need more testing

#3 - 2009-08-22 12:57 AM - Anonymous

Milestone Version 1.0.0 deleted