

QGIS Application - Bug report #13181  
random (In-)visibility Issue when using several large multispectral raster layers

2015-08-04 11:31 AM - Adrian Klink

Status:	Closed	
Priority:	Normal	
Assignee:		
Category:	GUI	
Affected QGIS version:	2.10.1	Regression?: No
Operating System:	Windows (64bit)	Easy fix?: No
Pull Request or Patch supplied:	No	Resolution:
Crashes QGIS or corrupts data:	No	Copied to github as #: 21243
Description		
<p>When displaying several large multispectral raster layers (GeoTIFFs) at once some layers may become randomly invisible. This effect randomly changes when display is being updated (e.g. pressing F5-key, scrolling, zooming, changing layers, scaling window).</p> <p>This effect can be reproduced with several (if not all) versions of QGIS 2.x including: QGIS 2.8.3 Wien QGIS 2.10.1 Pisa (effect has been randomly seen earlier with QGIS 2.0, 2.2, 2.4 and QGIS 2.6 Brighton as well)</p> <p>Versions not affected by this effect: Quantum GIS 1.8 Lisboa (and earlier versions)</p> <p>Tested using (screenshots applied): ASTER satellite scenes (EPSG:32632, WGS84 / UTM zone 32N) e.g. 5907 x 5359 pixels, 9 bands, 16bit Int</p> <p>System Used for Testing: Windows 7 (64bit) and Windows 8.1 (64bit) with 8GB Ram, Intel Core i5-4570 @ 3.2 GHz.</p>		

History

#1 - 2015-08-05 03:19 AM - Adrian Klink  
- File QGIS\_2\_10\_Pisa\_Layer\_settings\_contrast\_stretch.png added

The (in-)visibility issue **only** applies to a layer if contrast stretch to MinMax is enabled for this layer. If contrast stretch is disabled, there is no bug.

#2 - 2015-08-05 11:38 AM - Adrian Klink  
- Status changed from Open to Closed

I found a similar problem description in an other Bug report:

Bug report #13155: A Multiband image(e.g. landsat5,7,8) cannot be displayed in windows8.

Sometimes, they can be displayed , sometimes, only white.  
If they are white, Pushing Refresh button many times, then they might be displayed.

All win7 was fine and All win8 has that problem.

I re-checked the Win 7 system and can say it is **Win 8.1 only**. Win 7 was just slow, when I tested first time and it took longer to display, so I falsely thought it would also affect Win 7. Sorry for my mistake.

There was also a solution for it:

I changed to QGIS 32 bit in Windows8.  
It works well.  
  
This problem is only 64bit version.

In fact, 64bit is only available in QGIS 2.x series, Quantum GIS 1.8 was 32bit only. This explains why all older versions dont have this problem. I didn't try 2.10 with 32bit yet, but will try tomorrow.

As mentioned, the problem with 64bit only occurs when **contrast stretch** is enabled.

Since it seems to be same problem as Bug report #13155 this one can be closed.

Files			
QGIS_2_10_Pisa_ASTER_Spectral_Indices_0.jpg	381 KB	2015-08-04	Adrian Klink
QGIS_2_10_Pisa_ASTER_Spectral_Indices_1.jpg	514 KB	2015-08-04	Adrian Klink
QGIS_2_10_Pisa_ASTER_Spectral_Indices_2.jpg	562 KB	2015-08-04	Adrian Klink
QGIS_2_10_Pisa_ASTER_Spectral_Indices_3.jpg	593 KB	2015-08-04	Adrian Klink
QGIS_1_8_Lisboa_ASTER_Spectral_Indices.jpg	586 KB	2015-08-04	Adrian Klink
QGIS_2_10_Pisa_Layer_settings_contrast_stretch.png	100 KB	2015-08-05	Adrian Klink