

QGIS Application - Bug report #1157

incorrect loading and band management of 2-band rasters

2008-07-15 03:53 PM - Maxim Dubinin

Status:	Closed	
Priority:	Low	
Assignee:	ersts -	
Category:	Rasters	
Affected QGIS version:		Regression?: No
Operating System:	All	Easy fix?: No
Pull Request or Patch supplied:		Resolution: fixed
Crashes QGIS or corrupts data:		Copied to github as #: 11217
Description		
<p>I. On load, 2 band raster doesn't show up (should've load 2-1-1 or 2-2-1 on default? btw; having setting for band order to load on default will make work with multiple images so much easier).</p> <p>II. After changing band order in raster properties it shows up (band names show up as grey and undefined, I suppose band 1 and band 2 will be more straightforward).</p> <p>but</p> <p>III. Band selectors in raster properties act weird, try this:</p> <ol style="list-style-type: none">1. add 2-band raster to qgis2. go to layer properties, band selectors3. click on the third one (blue) - only "2: undefined" and "not set" shows up, why not "1: gray" also? <p>I can provide an example raster if needed.</p>		

History

#1 - 2008-07-15 04:03 PM - Maxim Dubinin

translation.gif - also regarding III, changing the bands in the band selector sometimes lead to totally weird results, on the attachment, notice blue band band selector, first item - translated, second - "2: undefined", third - not translated

#2 - 2008-07-16 07:52 AM - Maciej Sieczka -

I confirm the issue in 0.11 on GNU/Linux as well. In general - multiband imagery with 2 bands only are displayed blank. In raster properties only RED and GREEN are assigned - one needs to manually choose the BLUE band from the 2 available to see anything.

However, the issue III from the original bug report is gone now.

#3 - 2008-07-16 08:12 AM - ersts -

Providing an example would be great!

This happens because if any channel is set to "No Set" the rendering process is actually totally skipped.

Defaulting to 122/RGB would be very simple. But in my mind the question is, is it more appropriate automatically display 2-band images as gray scale images rather than RBG?

I personally have never had the need for a 2-band image, and cannot come up with a situation where one would be needed, let alone displaying them in color. Can you provide a short description of how you are using these 2-band data?

Thanks!

#4 - 2008-07-16 08:25 AM - Maciej Sieczka -

Replying to [comment:4 ersts]:

| *Providing an example would be great!*

There is, attached to the ticket.

| *I personally have never had the need for a 2-band image, and cannot come up with a situation where one would be needed, let alone displaying them in color.*

I can't speak for the report's author, but as to me - since QGIS allows to load such data, it should handle them somehow, shouldn't it?

#5 - 2008-07-16 08:33 AM - ersts -

Replying to [comment:5 msieczka]:

| *Replying to [comment:4 ersts]:*

| *Providing an example would be great!*

| *There is, attached to the ticket.*

Yes, so there is, looked at the screen shot but not the other file.

| *I personally have never had the need for a 2-band image, and cannot come up with a situation where one would be needed, let alone displaying them in color.*

| *I can't speak for the report's author, but as to me - since QGIS allows to load such data, it should handle them somehow, shouldn't it?*

Sure it should! Looking at the example image, I think it would be better to load this as gray scale rather than force 122/RGB.

#6 - 2008-07-16 09:02 AM - Maxim Dubinin

Hi, I'm glad this received some attention. Ability to work with 2-band rasters in RGB mode is as important as with normal 3-band rasters, as this helps visual interpretation.

Just to give you an example. I'm working with lots of MODIS data which has 2 bands of 250 m (and some others, but only 2 with this res), I have the whole production system based on such composites created from these bands and I do want to see them in color even though one of the band is "missing".

I've attached an example of what it would look like (2-1-1), if I have an ability to put 2nd (infrared) band in R-gun and 1st in G and B. I have rather

convenient (I'd even say traditional) way to visualize (i.e. vegetation is red as it supposed to be).

#7 - 2008-07-20 06:47 PM - ersts -

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

Band names will be generic from now on to avoid confusion.

I also added an ability to set the default band combinations which will be persistent between QGIS sessions

#8 - 2009-08-22 12:57 AM - Anonymous

Milestone Version 1.0.0 deleted

Files			
translation.gif	23.8 KB	2008-07-15	Maxim Dubinin
subset.zip	5.29 KB	2008-07-15	Maxim Dubinin
vizual.gif	106 KB	2008-07-16	Maxim Dubinin