QGIS Application - Bug report #475 square raster's pixels not square on display = rasters of different res are displaced

2006-12-21 02:20 PM - Redmine Admin

| Status: | Closed | | | | |
|---|----------|------------------------|-------|--|--|
| Priority: | Low | | | | |
| Assignee: | nobody - | | | | |
| 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 #: | 10534 | | |
| Description | | | | | |
| | | | | | |
| 1 add a a raster with square pixels | | | | | |
| | | | | | |
| 2 change OGIS window's proportion to be taller-than-wide, or vice versa | | | | | |
| | | | | | |
| 3 zoom in | | | | | |
| | | | | | |
| A see how the pixels are not displayed square (too, wide prot too, parrow prot) | | | | | |
| 4. See now the pixels are not displayed square (too_wide.phg, too_harrow.phg) | | | | | |
| E now divelow one restor of Em and one of 10m recelution | | | | | |
| 5. Now display one raster of 5m and one of 10m resolution | | | | | |
| 6 and how they are michloadd against each other; get some transportance to see this clearly (michloadd and) | | | | | |
| o. see now they are misplaced against each other, set some transparance to see this cleany (misplaced.phg) | | | | | |
| PTW these are CRASS regions luced for examples here, created with r managle. In OCIS the r managle output is displayed RSW, while | | | | | |
| in CRASS (and CRASS, man and) it is color with "rainbow" pollate. Note that after Lrup 's colors rules, rainbow' for the ractor displayed | | | | | |
| In GRASS (see GRASS_mon.png) it is color with rainbow panete. Note that after than an united block where is the bury (ODACO, ODAL, OOLO, | | | | | |
| B&W IN QGIS and color in GRASS, it is displayed color in both from then on weird. Ideas where is the bug (GRASS, GDAL, QGIS, | | | | | |
| gdal-grass)? | | | | | |
| | | | | | |
| Maciek | | | | | |
| | | | | | |

History

#1 - 2006-12-21 07:25 PM - Tim Sutton

Does the problem correct itself after the next pan / zoom?

#2 - 2006-12-21 08:09 PM - Gary Sherman

I can't duplicate the problem described in steps 1-4, using either a TIFF or GRASS raster.

GDAL 1.3.2, GRASS 6.2.0

#3 - 2006-12-22 04:58 AM - anonymous -

Replying to [comment:1 timlinux]:

Does the problem correct itself after the next pan / zoom?

No.

#4 - 2006-12-22 05:05 AM - anonymous -

Replying to [comment:2 gsherman]:

I can't duplicate the problem described in steps 1-4, using either a TIFF or GRASS raster.

And I can reproduce it with any raster. Why you can't I don't know.

Pan to the edge of your raster, maybe then you'll see it better. If you still can't see it, measure the pixel dimensions; one axis will be longer (while both should be equal).

GDAL 1.3.2

Same here.

GRASS 6.2.0

I don't think this matters. The bug is in displaying all rasters.

Maciek

#5 - 2006-12-22 06:27 AM - Gary Sherman

I don't need to measure the pixels. I can see that they are still square and I did try it from various locations in the raster.

#6 - 2006-12-22 12:05 PM - Redmine Admin

Well then can you display 2 rasters with identical cells allignment, but of different resolution, set the transparency, and reproduce steps 5, 6?

#7 - 2006-12-28 10:14 PM - Gary Sherman

Replying to [comment:6 tutey@o2.pl]:

Well then can you display 2 rasters with identical cells allignment, but of different resolution, set the transparency, and reproduce steps 5, 6?

I don't have any suitable test data

#8 - 2006-12-29 02:30 AM - Redmine Admin

Replying to [comment:7 gsherman]:

I don't have any suitable test data....

Attached are 2 such rasters. One is 5m, the other is 10m. Both have exactly the same extent. Open them in QGIS and set transparency for both. Zoom and pan around a bit. Let me know if you can see how missalligned they are against each other. I can. The missalignment is different depending on zoom level and view center point location. It dissapears after zooming to either rasters full extent.

Maciek

#9 - 2006-12-29 02:11 PM - Gavin Macaulay -

This problem can be seen in another way that doesn't require two images.

- load the 5res.tif image
- click on the zoom in tool to get a cross-hair cursor
- place the cursor over the bottom right corner of the image and note down the x/y coordinates (should be 481510, 4180530)
- pan the image so that the bottom right corner of the image is in the middle of the map
- click on the zoom in tool to get a cross-hair cursor again
- place the cursor over the same corner and note the x/y coords. They are different. This is the underlying cause of the mis-matched images.

The x/y coordinate of that corner varies with panning and zooming of the image.

#10 - 2006-12-29 07:52 PM - anonymous -

Further note: this problem only occurs when the image is panned so that some of the image is off the visible map.

#11 - 2006-12-30 06:55 PM - Gavin Macaulay -

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

Fixed in 0.8 branch () and head ().

#12 - 2009-08-22 12:46 AM - Anonymous

Milestone Version 0.8 deleted

| Files | | | |
|---------------|---------|------------|---------------|
| too_tall.png | 15.9 KB | 2006-12-21 | Redmine Admin |
| too_wide.png | 14.4 KB | 2006-12-21 | Redmine Admin |
| displaced.png | 16.5 KB | 2006-12-21 | Redmine Admin |
| GRASS_mon.png | 5.11 KB | 2006-12-21 | Redmine Admin |
| 5res.tif | 3.03 KB | 2006-12-29 | Redmine Admin |
| 10res.tif | 2.94 KB | 2006-12-29 | Redmine Admin |
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