QGIS Application - Bug report #14855
Strange result when hillshading with Z-factor=10 in the "Terrain Analysis" core plugin

2016-05-22 02:48 AM - Lene Fischer

Status:	Closed			
Priority:	Normal			
Assignee:				
Category:	Analysis library			
Affected QGIS version:	2.14.2	**Regression?:**	No	
Operating System:		**Easy fix?:**	No	
Pull Request or Patch supplied:	No	**Resolution:**	worksforme	
Crashes QGIS or corrupts data:	No	**Copied to github as #:**	22808	

Description

I create a Hillsade from Raster>Terrain analysis>Hillshade.

Using parameter Z-factor 10

Azimuth 315

Vertical angle 45

I get a grey/dull/flatten image

If I change the Z-factor to 1. I get the same result, just a bit lighter color.

Using the same function from Processing>GDAL I get a 'useful' image

History

#1 - 2016-05-22 03:42 AM - Giovanni Manghi

- Category changed from Rasters to 119

- Priority changed from High to Normal

Hi Lene, could you attach sample data to allow replicate here? thanks!

#2 - 2016-05-22 11:53 PM - Saber Razmjooei

- Status changed from Open to Feedback

Lene,

Is your Z value in the same unit as your x and y. For example, this happens if you try to scale lat/long raster rasters.

#3 - 2016-05-23 12:02 AM - Lene Fischer

Yes same value.

Utm 32 N EPSG 25832 for x,y and meter for Z-coordinate.

The files are to big to attach here. I try to upload to my webpage and insert a link here later.

#4 - 2016-05-23 12:42 AM - Lene Fischer

Link to data http://ku-gis.dk/blog/wp-content/uploads/2016/05/dtm_1km_6183_693.zip

I have the same issue for single files.

#5 - 2016-05-23 01:04 AM - Giovanni Manghi

Lene Fischer wrote:

> Link to data http://ku-gis.dk/blog/wp-content/uploads/2016/05/dtm_1km_6183_693.zip
>
> I have the same issue for single files.

I guess this is sample data about the ticket for raster min/max values (#14835) and not this one, correct?

#6 - 2016-05-23 01:05 AM - Lene Fischer

I use the same data for both tickets.

#7 - 2016-05-23 01:08 AM - Giovanni Manghi

Lene Fischer wrote:

> I use the same data for both tickets.

what is the file you used to hillshade and that gave you the results you attached as jpg in the original description?

#8 - 2016-05-23 01:10 AM - Lene Fischer

From the the files in the link I made a VRT file.
You can also use just a single file.

#9 - 2016-05-23 01:17 AM - Giovanni Manghi
- Subject changed from Hillshade - Z values load to Strange result when hillshading with Z-factor=10 in the "Terrain Analysis" core plugin
- Status changed from Feedback to Open

#10 - 2017-01-02 01:11 AM - Giovanni Manghi
- Category changed from 119 to Analysis library

#11 - 2017-01-02 01:27 AM - Giovanni Manghi
- Target version changed from Version 2.14 to Version 3.0

#12 - 2017-05-01 01:05 AM - Giovanni Manghi
- Regression? set to No
- Easy fix? set to No

#13 - 2019-01-27 07:32 PM - Alexander Bruy
- Status changed from Open to Feedback
- Description updated

- Operating System deleted (Windows 64 bit)

Just tested with master and got correct results. Can you test again?

#14 - 2019-02-10 09:08 AM - Alexander Bruy

- Status changed from Feedback to Closed

- Resolution set to worksforme

Files

hillshade10_GDAL.JPG	245 KB	2016-05-22	Lene Fischer
hillshade10_core.JPG	49.7 KB	2016-05-22	Lene Fischer