QGIS Application - Bug report #15281
Raster calculator crashes unexpectedly with moderate sized TIFs

2016-07-14 07:16 AM - belg4mit -

Status:	Closed			
Priority:	Normal			
Assignee:				
Category:	Raster Calculator			
Affected QGIS version:	2.16.0		**Regression?:**	No
Operating System:			**Easy fix?:**	No
Pull Request or Patch supplied:			**Resolution:**	duplicate
Crashes QGIS or corrupts data:	No		**Copied to github as #:**	23216

Description

I would have thought these were large files, but after seeing #13336 I guess not. I have 4GB and 5GB TIFFs on Windows 7 and I'm trying to do:

    TIGER@1 OR WATER@1

and QGIS immediately crashes without warning after I click OK. (I actually want to OR in a third file, but have been waiting 16 hours for the Attribute Table editor to delete multiple columns from a 490Mb DBF before I can prepare it)

The rasters were created with:

    gdal_rasterize.exe -burn 40 -tr 10.0 10.0 CENSUS2010TIGERROADS_ARC.shp -l CENSUS2010TIGERROADS_ARC TIGER.tif
    gdal_rasterize.exe -burn 1000000000 -tr 10.0 10.0 HYDRO25K_POLY.shp -l HYDRO25K_POLY HYDRO.tif

The source files are available from:
    -
http://www.mass.gov/anf/research-and-tech/it-serv-and-support/application-serv/office-of-geographic-information-massgis/datalayers/h.html
    -
http://www.mass.gov/anf/research-and-tech/it-serv-and-support/application-serv/office-of-geographic-information-massgis/datalayers/cesus2010.html

P.S. I also tried to use gdal_calc as a work around without success

    gdal_calc.bat -A TIGER.tif -B HYDRO.tif --outfile=CostPath.tif --calc="A|B"
    ImportError: No module named site

History

#1 - 2016-07-14 08:08 AM - belg4mit -

- File RasterCalculatorCrash.zip added

Sorry, I forgot to include the minidump.

#2 - 2016-07-14 08:40 AM - belg4mit -

Got gdal_calc.py working after using out that I had to run OSGeo4W.bat first.

I get the following:

> *Error! Dimensions of file HYDRO.tif (33592, 23330) are different from other files (29593, 18206). Cannot proceed*

#3 - 2016-07-14 09:13 AM - belg4mit -

- File RasterCalculatorCrash-matching_extent.zip added

I clipped the rasters to be the same size/extent, although that really should not be necessary, and it still crashes.

#4 - 2016-07-14 09:28 AM - Giovanni Manghi

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

seems that #13336 is still valid. I confirm on a clean 2.16 installation on linux.

The gdal raster calculator issue must be reported in the gdal bug tracker.

Files

RasterCalculatorCrash.zip	4.11 MB	2016-07-14	belg4mit -
RasterCalculatorCrash-matching_extent.zip	4.14 MB	2016-07-14	belg4mit -