

QGIS Application - Bug report #21017

SAGA RGB Composite not working

2019-01-17 04:21 AM - Shawn Hood

Status:	Closed	
Priority:	High	
Assignee:		
Category:	Processing/SAGA	
Affected QGIS version:	3.4.3	Regression?: No
Operating System:		Easy fix?: No
Pull Request or Patch supplied:		Resolution: duplicate
Crashes QGIS or corrupts data:		Copied to github as #: 28836
Description		
Error follows on from a previously closed bug ticket #20340. When I try to use the SAGA's RGB Composite tool I get the following message (abbreviated below). This seems to be related to discussion here: [[https://github.com/qgis/QGIS/pull/8418]] <pre># -----# Error: select a library # -----# C:\PROGRA~1\QGIS3~1.4\bin>saga_cmd io_grid_image 0 -COLOURING 4 -GRID:"C:/temp/test.sgrd" -FILE:"C:/temp/test.tif" Error: input file [C:/temp/test.sgrd] Error: Grid # -----#</pre> The full log is: Processing algorithm... Algorithm 'Rgb composite' starting... Input parameters: <pre>{ 'B_GRID' : 'C:/Users/User/OneDrive - University of Tasmania/Unearthed Data Challenge/GIS/Landsat_8/LC08_L1TP_100080_20181219_20181219_01_RT_2018-12-19/Band Ratios/Fe2 SWIR2divNIR + GRNdivRED.tif', 'B_METHOD' : 0, 'B_PERCTL_MAX' : 99, 'B_PERCTL_MIN' : 1, 'B_RANGE_MAX' : 255, 'B_RANGE_MIN' : 0, 'B_STDDEV' : 2, 'G_GRID' : 'C:/Users/User/OneDrive - University of Tasmania/Unearthed Data Challenge/GIS/Landsat_8/LC08_L1TP_100080_20181219_20181219_01_RT_2018-12-19/Band Ratios/Fe2 SWIR2divNIR + GRNdivRED.tif', 'G_METHOD' : 0, 'G_PERCTL_MAX' : 99, 'G_PERCTL_MIN' : 1, 'G_RANGE_MAX' : 255, 'G_RANGE_MIN' : 0, 'G_STDDEV' : 2, 'RGB' : 'C:/temp/test.tif', 'R_GRID' : 'C:/Users/User/OneDrive - University of Tasmania/Unearthed Data Challenge/GIS/Landsat_8/LC08_L1TP_100080_20181219_20181219_01_RT_2018-12-19/Band Ratios/FerrousSi_SWIR2divSWIR1.tif', 'R_METHOD' : 0, 'R_PERCTL_MAX' : 99, 'R_PERCTL_MIN' : 1, 'R_RANGE_MAX' : 255, 'R_RANGE_MIN' : 0, 'R_STDDEV' : 2 }</pre> io_gdal 0 -TRANSFORM 1 -RESAMPLING 3 -GRIDS "C:/Users/User/AppData/Local/Temp/processing_62f1db45cbbf463e8ddd11d0771a7761/bd44649ecd0e47c2bc7f9fbe8ca1f000/L8FerrousS /L8FerrousSi.sgrd" -FILES "C:/Users/User/OneDrive - University of Tasmania/Unearthed Data Challenge/GIS/Landsat_8/LC08_L1TP_100080_20181219_20181219_01_RT_2018-12-19/Band Ratios/FerrousSi_SWIR2divSWIR1.tif" io_gdal 0 -TRANSFORM 1 -RESAMPLING 3 -GRIDS "C:/Users/User/AppData/Local/Temp/processing_62f1db45cbbf463e8ddd11d0771a7761/a4383c5db83c45569086a42694c3c502/L8Fe2.sg 2/L8Fe2.sgrd" -FILES "C:/Users/User/OneDrive - University of Tasmania/Unearthed Data Challenge/GIS/Landsat_8/LC08_L1TP_100080_20181219_20181219_01_RT_2018-12-19/Band Ratios/Fe2 SWIR2divNIR + GRNdivRED.tif" io_gdal 0 -TRANSFORM 1 -RESAMPLING 3 -GRIDS		

```
"C:/Users/User/AppData/Local/Temp/processing_62f1db45cbbf463e8ddd11d0771a7761/24eaba4f23614d2e8d1ea9e4ac2dd83a/L8Fe2.sgrd" -FILES "C:/Users/User/OneDrive - University of Tasmania/Unearthed Data
Challange/GIS/Landsat_8/LC08_L1TP_100080_20181219_20181219_01_RT_2018-12-19/Band Ratios/Fe2 SWIR2divNIR +
GRNdivRED.tif"
grid_visualisation "RGB Composite" -R_GRID
"C:/Users/User/AppData/Local/Temp/processing_62f1db45cbbf463e8ddd11d0771a7761/bd44649ecd0e47c2bc7f9fbe8ca1f000/L8FerrousSi.sgrd" -G_GRID
"C:/Users/User/AppData/Local/Temp/processing_62f1db45cbbf463e8ddd11d0771a7761/a4383c5db83c45569086a42694c3c502/L8Fe2.sgrd" -B_GRID
"C:/Users/User/AppData/Local/Temp/processing_62f1db45cbbf463e8ddd11d0771a7761/24eaba4f23614d2e8d1ea9e4ac2dd83a/L8Fe2.sgrd" -R_METHOD 0 -G_METHOD 0 -B_METHOD 0 -R_RANGE_MIN 0 -R_RANGE_MAX 255 -R_PERCTL_MIN 1
-R_PERCTL_MAX 99 -R_STDDEV 2.0 -G_RANGE_MIN 0 -G_RANGE_MAX 255 -G_PERCTL_MIN 1 -G_PERCTL_MAX 99
-G_STDDEV 2.0 -B_RANGE_MIN 0 -B_RANGE_MAX 255 -B_PERCTL_MIN 1 -B_PERCTL_MAX 99 -B_STDDEV 2.0 -RGB
"C:/temp/test.tif"
io_grid_image 0 -COLOURING 4 -GRID:"C:/temp/test.sgrd" -FILE:"C:/temp/test.tif"
```

```
C:\PROGRA~1\QGIS3~1.4\bin>set SAGA=C:/PROGRA~1/QGIS3~1.4/apps\saga-ltr
```

```
C:\PROGRA~1\QGIS3~1.4\bin>set SAGA_MLB=C:/PROGRA~1/QGIS3~1.4/apps\saga-ltr\modules
```

```
C:\PROGRA~1\QGIS3~1.4\bin>PATH=C:\PROGRA~1\QGIS3~1.4\apps\qgis\bin;C:\PROGRA~1\QGIS3~1.4\apps\Python37;C:\PROGRA~1\QGIS3~1.4\apps\Python37\Scripts;C:\PROGRA~1\QGIS3~1.4\apps\qt5\bin;C:\PROGRA~1\QGIS3~1.4\apps\Python27\Scripts;C:\PROGRA~1\QGIS3~1.4\bin;C:\WINDOWS\system32;C:\WINDOWS;C:\WINDOWS\system32\WBem;C:\PROGRA~1\QGIS3~1.4\apps\Python37\lib\site-packages\pywin32_system32;C:\PROGRA~1\QGIS3~1.4\apps\Python37\lib\site-packages\numpy\libs;C:\PROGRA~1\QGIS3~1.4\apps\Python37\lib\site-packages\scipy\extra-dll;C:/PROGRA~1/QGIS3~1.4/apps\saga-ltr;C:/PROGRA~1\QGIS3~1.4/apps\saga-ltr\modules
```

```
C:\PROGRA~1\QGIS3~1.4\bin>saga_cmd io_gdal 0 -TRANSFORM 1 -RESAMPLING 3 -GRIDS
```

```
"C:/Users/User/AppData/Local/Temp/processing_62f1db45cbbf463e8ddd11d0771a7761/bd44649ecd0e47c2bc7f9fbe8ca1f000/L8FerrousSi.sgrd" -FILES "C:/Users/User/OneDrive - University of Tasmania/Unearthed Data
Challange/GIS/Landsat_8/LC08_L1TP_100080_20181219_20181219_01_RT_2018-12-19/Band
Ratios/FerrousSi_SWIR2divSWIR1.tif"
Error: select a library
```

```
##### ## ##### ##
### ### ## ###
### # ## ## ##### # ##
### ##### ## # #####
##### # ## ##### # ##
```

```
SAGA Version: 2.3.2 (64 bit)
```

```
68 loaded tool libraries (630 tools):
```

- climate_tools
- contrib_perego
- db_odbc
- db_pgsq
- docs_html
- garden_3d_viewer
- garden_fractals
- garden_games

- garden_learn_to_program
- garden_webservices
- grid_analysis
- grid_calculus
- grid_calculus_bsl
- grid_filter
- grid_gridding
- grid_spline
- grid_tools
- grid_visualisation
- imagery_classification
- imagery_isocluster
- imagery_maxent
- imagery_photogrammetry
- imagery_segmentation
- imagery_svm
- imagery_tools
- io_esri_e00
- io_gps
- io_grid
- io_grid_image
- io_shapes
- io_shapes_dxf
- io_table
- io_virtual
- pj_georeference
- pj_geotrans
- pj_proj4
- pointcloud_tools
- pointcloud_viewer
- shapes_grid
- shapes_lines
- shapes_points
- shapes_polygons
- shapes_tools
- shapes_transect
- sim_cellular_automata
- sim_ecosystems_hugget
- sim_erosion
- sim_fire_spreading
- sim_hydrology
- sim_ihacres
- sim_qm_of_esp
- sim_rivflow
- statistics_grid
- statistics_kriging
- statistics_points
- statistics_regression
- ta_channels
- ta_compound
- ta_hydrology
- ta_lighting
- ta_morphometry

- ta_preprocessor
- ta_profiles
- ta_slope_stability
- table_calculus
- table_tools
- tin_tools
- tin_viewer

type -h or --help for further information

C:\PROGRA~1\QGIS3~1.4\bin>saga_cmd io_gdal 0 -TRANSFORM 1 -RESAMPLING 3 -GRIDS

"C:/Users/User/AppData/Local/Temp/processing_62f1db45cbbf463e8ddd11d0771a7761/a4383c5db83c45569086a42694c3c502/L8Fe2.sg

2/L8Fe2.sgrd" -FILES "C:/Users/User/OneDrive - University of Tasmania/Unearthed Data

Challange/GIS/Landsat_8/LC08_L1TP_100080_20181219_20181219_01_RT_2018-12-19/Band Ratios/Fe2 SWIR2divNIR +
GRNdivRED.tif"

Error: select a library

```
##### ## ##### ##
### ### ## ###
### # ## ## ##### # ##
### ##### ## # #####
##### # ## ##### # ##
```

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- grid_calculus
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- grid_gridding
- grid_spline
- grid_tools
- grid_visualisation
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- imagery_isocluster
- imagery_maxent
- imagery_photogrammetry
- imagery_segmentation
- imagery_svm
- imagery_tools

- io_esri_e00
- io_gps
- io_grid
- io_grid_image
- io_shapes
- io_shapes_dxf
- io_table
- io_virtual
- pj_georeference
- pj_geotrans
- pj_proj4
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- ta_profiles
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- table_tools
- tin_tools
- tin_viewer

type -h or --help for further information

```
C:\PROGRA~1\QGIS3~1.4\bin>saga_cmd io_gdal 0 -TRANSFORM 1 -RESAMPLING 3 -GRIDS
```

```
"C:/Users/User/AppData/Local/Temp/processing_62f1db45cbbf463e8ddd11d0771a7761/24eaba4f23614d2e8d1ea9e4ac2dd83a/L8Fe2.sgrd" -FILES "C:/Users/User/OneDrive - University of Tasmania/Unearthed Data
Challenge/GIS/Landsat_8/LC08_L1TP_100080_20181219_20181219_01_RT_2018-12-19/Band Ratios/Fe2 SWIR2divNIR +
GRNdivRED.tif"
```

```
Error: select a library
```

```
##### ## ##### ##  
### ### ## ###  
### # ## ## ##### # ##  
### ##### ## # #####  
##### # ## ##### # ##
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- io_grid_image
- io_shapes
- io_shapes_dxf
- io_table
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- table_calculus
- table_tools
- tin_tools
- tin_viewer

type -h or --help for further information

C:\PROGRA~1\QGIS3~1.4\bin>saga_cmd grid_visualisation "RGB Composite" -R_GRID

"C:/Users/User/AppData/Local/Temp/processing_62f1db45cbbf463e8ddd11d0771a7761/bd44649ecd0e47c2bc7f9fbe8ca1f000/L8FerrousS
/L8FerrousSi.sgrd" -G_GRID

"C:/Users/User/AppData/Local/Temp/processing_62f1db45cbbf463e8ddd11d0771a7761/a4383c5db83c45569086a42694c3c502/L8Fe2.sgr
2/L8Fe2.sgrd" -B_GRID

"C:/Users/User/AppData/Local/Temp/processing_62f1db45cbbf463e8ddd11d0771a7761/24eaba4f23614d2e8d1ea9e4ac2dd83a/L8Fe2.sgr
a/L8Fe2.sgrd" -R_METHOD 0 -G_METHOD 0 -B_METHOD 0 -R_RANGE_MIN 0 -R_RANGE_MAX 255 -R_PERCTL_MIN 1

-R_PERCTL_MAX 99 -R_STDDEV 2.0 -G_RANGE_MIN 0 -G_RANGE_MAX 255 -G_PERCTL_MIN 1 -G_PERCTL_MAX 99

-G_STDDEV 2.0 -B_RANGE_MIN 0 -B_RANGE_MAX 255 -B_PERCTL_MIN 1 -B_PERCTL_MAX 99 -B_STDDEV 2.0 -RGB

"C:/temp/test.tif"

Error: input file

[C:/Users/User/AppData/Local/Temp/processing_62f1db45cbbf463e8ddd11d0771a7761/bd44649ecd0e47c2bc7f9fbe8ca1f000/L8FerrousS
/L8FerrousSi.sgrd]

Error: Red

##

###

##

#####

##

SAGA Version: 2.3.2 (64 bit)

library path: C:\PROGRA~1\QGIS3~1.4\apps\saga-ltr\modules\
library name: grid_visualisation
library : Grids
tool : RGB Composite
author : O.Conrad (c) 2002
processors : 8 [8]

Load grid:

C:/Users/User/AppData/Local/Temp/processing_62f1db45cbbf463e8ddd11d0771a7761/bd44649ecd0e47c2bc7f9fbe8ca1f000/L8FerrousSi
L8FerrousSi.sgrd...
failed

Usage: saga_cmd grid_visualisation 3 [-R_GRID <str>] [-R_METHOD <str>] [-R_RANGE_MIN <double>] [-R_RANGE_MAX
<double>] [-R_PERCTL_MIN <double>] [-R_PERCTL_MAX <double>] [-R_STDDEV <double>] [-G_GRID <str>] [-G_METHOD
<str>] [-G_RANGE_MIN <double>] [-G_RANGE_MAX <double>] [-G_PERCTL_MIN <double>] [-G_PERCTL_MAX <double>]
[-G_STDDEV <double>] [-B_GRID <str>] [-B_METHOD <str>] [-B_RANGE_MIN <double>] [-B_RANGE_MAX <double>]
[-B_PERCTL_MIN <double>] [-B_PERCTL_MAX <double>] [-B_STDDEV <double>] [-A_GRID <str>] [-A_METHOD <str>]
[-A_RANGE_MIN <double>] [-A_RANGE_MAX <double>] [-A_PERCTL_MIN <double>] [-A_PERCTL_MAX <double>]
[-A_STDDEV <double>] [-RGB <str>]

-R_GRID:<str> Red

Grid (input)

-R_METHOD:<str> Value Preparation

Choice

Available Choices:

[0] take original value (0 - 255)

[1] rescale to 0 - 255

[2] user defined

[3] percentiles

[4] standard deviation

Default: 4

-R_RANGE_MIN:<double> Rescale Range

Value range

-R_RANGE_MAX:<double> Rescale Range

Value range

-R_PERCTL_MIN:<double> Percentiles

Value range

-R_PERCTL_MAX:<double> Percentiles

Value range

-R_STDDEV:<double> Standard Deviation

Floating point

Minimum: 0.000000

Default: 2.000000

-G_GRID:<str> Green

Grid (input)

-G_METHOD:<str> Value Preparation

Choice

Available Choices:

[0] take original value (0 - 255)

[1] rescale to 0 - 255

[2] user defined

[3] percentiles
 [4] standard deviation
 Default: 4
 -G_RANGE_MIN:<double> Rescale Range
 Value range
 -G_RANGE_MAX:<double> Rescale Range
 Value range
 -G_PERCTL_MIN:<double> Percentiles
 Value range
 -G_PERCTL_MAX:<double> Percentiles
 Value range
 -G_STDDEV:<double> Standard Deviation
 Floating point
 Minimum: 0.000000
 Default: 2.000000
 -B_GRID:<str> Blue
 Grid (input)
 -B_METHOD:<str> Value Preparation
 Choice
 Available Choices:
 [0] take original value (0 - 255)
 [1] rescale to 0 - 255
 [2] user defined
 [3] percentiles
 [4] standard deviation
 Default: 4
 -B_RANGE_MIN:<double> Rescale Range
 Value range
 -B_RANGE_MAX:<double> Rescale Range
 Value range
 -B_PERCTL_MIN:<double> Percentiles
 Value range
 -B_PERCTL_MAX:<double> Percentiles
 Value range
 -B_STDDEV:<double> Standard Deviation
 Floating point
 Minimum: 0.000000
 Default: 2.000000
 -A_GRID:<str> Alpha
 Grid (optional input)
 -A_METHOD:<str> Value Preparation
 Choice
 Available Choices:
 [0] take original value (0 - 255)
 [1] rescale to 0 - 255
 [2] user defined
 [3] percentiles
 [4] standard deviation
 Default: 4
 -A_RANGE_MIN:<double> Rescale Range
 Value range
 -A_RANGE_MAX:<double> Rescale Range
 Value range

-A_PERCTL_MIN:<double> Percentiles
Value range
-A_PERCTL_MAX:<double> Percentiles
Value range
-A_STDDEV:<double> Standard Deviation
Floating point
Minimum: 0.000000
Default: 2.000000
-RGB:<str> Composite
Grid (output)

C:\PROGRA~1\QGIS3~1.4\bin>saga_cmd io_grid_image 0 -COLOURING 4 -GRID:"C:/temp/test.sgrd" -FILE:"C:/temp/test.tif"
Error: input file [C:/temp/test.sgrd]
Error: Grid

##

SAGA Version: 2.3.2 (64 bit)

library path: C:\PROGRA~1\QGIS3~1.4\apps\saga-ltr\modules\
library name: io_grid_image
library : Images
tool : Export Image (bmp, jpg, pcx, png, tif)
author : O.Conrad (c) 2005
processors : 8 [8]

Load grid: C:/temp/test.sgrd...
failed

Usage: saga_cmd io_grid_image 0 [-GRID <str>] [-SHADE <str>] [-FILE <str>] [-FILE_KML <str>] [-COLOURING <str>]
[-COL_PALETTE <str>] [-COL_COUNT <num>] [-COL_REVERT <str>] [-STDDEV <double>] [-STRETCH_MIN <double>]
[-STRETCH_MAX <double>] [-LUT <str>] [-SHADE_TRANS <double>] [-SHADE_BRIGHT_MIN <double>]
[-SHADE_BRIGHT_MAX <double>]
-GRID:<str> Grid
Grid (input)
-SHADE:<str> Shade
Grid (optional input)
-FILE:<str> Image File
File path
-FILE_KML:<str> Create KML File
Boolean
Default: 1
-COLOURING:<str> Colouring
Choice
Available Choices:

[0] stretch to grid's standard deviation
 [1] stretch to grid's value range
 [2] stretch to specified value range
 [3] lookup table
 [4] rgb coded values
 Default: 0
 -COL_PALETTE:<str> Color Palette
 Choice
 Available Choices:
 [0] DEFAULT
 [1] DEFAULT_BRIGHT
 [2] BLACK_WHITE
 [3] BLACK_RED
 [4] BLACK_GREEN
 [5] BLACK_BLUE
 [6] WHITE_RED
 [7] WHITE_GREEN
 [8] WHITE_BLUE
 [9] YELLOW_RED
 [10] YELLOW_GREEN
 [11] YELLOW_BLUE
 [12] RED_GREEN
 [13] RED_BLUE
 [14] GREEN_BLUE
 [15] RED_GREY_BLUE
 [16] RED_GREY_GREEN
 [17] GREEN_GREY_BLUE
 [18] RED_GREEN_BLUE
 [19] RED_BLUE_GREEN
 [20] GREEN_RED_BLUE
 [21] RAINBOW
 [22] NEON
 [23] TOPOGRAPHY
 [24] ASPECT_1
 [25] ASPECT_2
 [26] ASPECT_3
 Default: 0
 -COL_COUNT:<num> Number of Colors
 Integer
 Default: 100
 -COL_REVERT:<str> Revert Palette
 Boolean
 Default: 0
 -STDDEV:<double> Standard Deviation
 Floating point
 Minimum: 0.000000
 Default: 2.000000
 -STRETCH_MIN:<double> Stretch to Value Range
 Value range
 -STRETCH_MAX:<double> Stretch to Value Range
 Value range
 -LUT:<str> Lookup Table
 Table (optional input)

-SHADE_TRANS:<double> Shade Transparency []

Floating point

Minimum: 0.000000

Maximum: 100.000000

Default: 40.000000

-SHADE_BRIGHT_MIN:<double> Shade Brightness []

Value range

-SHADE_BRIGHT_MAX:<double> Shade Brightness []

Value range

C:\PROGRA~1\QGIS3~1.4\bin>exit

Execution completed in 22.85 seconds

Results:

{'RGB': 'C:/temp/test.tif'}

Loading resulting layers

The following layers were not correctly generated.C:/temp/test.tifYou can check the 'Log Messages Panel' in QGIS main window to find more information about the execution of the algorithm.

Related issues:

Duplicates QGIS Application - Bug report # 20340: SAGA RGB Composite not working

Closed

2018-11-02

History

#1 - 2019-01-17 11:22 AM - Giovanni Manghi

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

it has been fixed in master, aka 3.5, but not backported yet.

#2 - 2019-01-21 11:57 AM - Jürgen Fischer

- Description updated

#3 - 2019-01-21 11:58 AM - Jürgen Fischer

- Duplicates Bug report #20340: SAGA RGB Composite not working added

#4 - 2019-01-21 11:58 AM - Jürgen Fischer

- Description updated