

QGIS Application - Bug report #16880

SAGA Catchment Area tool not working

2017-07-17 05:37 PM - Mario Reyes

Status:	Closed	
Priority:	High	
Assignee:	Giovanni Manghi	
Category:	Processing/SAGA	
Affected QGIS version:	2.18.10	Regression?: No
Operating System:	Windows 32 bits	Easy fix?: No
Pull Request or Patch supplied:	Not supplied	Resolution: fixed/implemented
Crashes QGIS or corrupts data:	No	Copied to github as #: 24779

Description

I'm trying to use the SAGA Catchment Area tool within QGIS and I don't get a result. The log file is the following:

```
2017-07-17T00:58:58 0 SAGA execution commands
io_gdal 0 -TRANSFORM 1 -RESAMPLING 3 -GRIDS
"C:\Users\Leslie\AppData\Local\Temp\processing30ebabc0f3844302af111e184a46deea\207375cf6c214fc29b38c563de21ea7b\demssnad27\demssnad27lcc.sgrd" -FILES "C:/Users/Leslie/Documents/Curso QGIS II/Practica 3 Hidrologia/datos_practica/dem_ss_nad27lcc.tif"
ta_preprocessor "Fill Sinks (Wang & Liu)" -ELEV
"C:\Users\Leslie\AppData\Local\Temp\processing30ebabc0f3844302af111e184a46deea\207375cf6c214fc29b38c563de21ea7b\demssnad27\demssnad27lcc.sgrd" -MINSLOPE 0.01 -FILLED
"C:\Users\Leslie\AppData\Local\Temp\processing30ebabc0f3844302af111e184a46deea\8fb1dc9374ee4cea93f13f58b828018c\FILLED.sdat" -FILLED.sdat" -FDIR
"C:\Users\Leslie\AppData\Local\Temp\processing30ebabc0f3844302af111e184a46deea\9023bec26954e91a5cf2e01f43df720\FDIR.sdat" -FDIR.sdat" -WSHED
"C:\Users\Leslie\AppData\Local\Temp\processing30ebabc0f3844302af111e184a46deea\8fe1bc1b8684dc9b3297c2fdf1188b9\WSHED.sdat" -WSHED.sdat"
2017-07-17T00:59:32 0 Salida de la consola de ejecución de SAGA

C:\PROGRA~1\QGIS2~1.18\bin>set SAGA=C:/PROGRA~1/QGIS2~1.18/apps\saga-ltr

C:\PROGRA~1\QGIS2~1.18\bin>set SAGA_MLB=C:/PROGRA~1/QGIS2~1.18/apps\saga-ltr\modules

C:\PROGRA~1\QGIS2~1.18\bin>PATH=C:\PROGRA~1\QGIS2~1.18\apps\Python27\lib\site-packages\Shapely-1.2.18-py2.7-win32.egg\shapely;C:\PROGRA~1\QGIS2~1.18\apps\Python27\lib\site-packages\Shapely-1.2.18-py2.7-win32.egg\shapely\DLLs;C:\PROGRA~1\QGIS2~1.18\apps\Python27\DLLs;C:\PROGRA~1\QGIS2~1.18\apps\Python27\lib\site-packages\numpy\lib\site-packages\numpy\core;C:\PROGRA~1\QGIS2~1.18\apps\qgis\bin;C:\PROGRA~1\QGIS2~1.18\apps\grass\grass-7.2.1\lib;C:\PROGRA~1\QGIS2~1.18\apps\grass\grass-7.2.1\bin;{app};C:\PROGRA~1\QGIS2~1.18\bin;C:\WINDOWS\system32;C:\WINDOWS;C:\WINDOWS\system32\WBem;C:\PROGRA~1\QGIS2~1.18\apps\Python27\Scripts;C:\Program Files\IR-R-3.4.0\bin\i386;C:\Program Files\IRStudio\bin;C:/PROGRA~1/QGIS2~1.18/apps\saga-ltr;C:/PROGRA~1/QGIS2~1.18/apps\saga-ltr\modules

C:\PROGRA~1\QGIS2~1.18\bin>saga_cmd io_gdal 0 -TRANSFORM 1 -RESAMPLING 3 -GRIDS
"C:\Users\Leslie\AppData\Local\Temp\processing30ebabc0f3844302af111e184a46deea\207375cf6c214fc29b38c563de21ea7b\demssnad27\demssnad27lcc.sgrd" -FILES "C:/Users/Leslie/Documents/Curso QGIS II/Practica 3 Hidrologia/datos_practica/dem_ss_nad27lcc.tif"

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

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

SAGA Version: 2.3.2 (32 bit)

library path: C:\PROGRA~1\QGIS2~1.18\apps\saga-ltr\modules\
library name: io_gdal
library : GDAL/OGR
tool : Import Raster
author : O.Conrad (c) 2007 (A.Ringeler)
processors : 2 [2]

Parameters

Grids: No objects
Files: "C:/Users/Leslie/Documents/Curso QGIS II/Practica 3 Hidrologia/datos_practica/dem_ss_nad27lcc.tif"
Select from Multiple Bands:
Alphanumeric Sorting: yes
Transformation: yes
Resampling: B-Spline Interpolation

loading: C:/Users/Leslie/Documents/Curso QGIS II/Practica 3 Hidrologia/datos_practica/dem_ss_nad27lcc.tif

Driver: GTiff

Bands: 1

Rows: 1362

Columns: 1144

loading: dem_ss_nad27lcc

C:\PROGRA~1\QGIS2~1.18\bin>saga_cmd ta_preprocessor "Fill Sinks (Wang & Liu)" -ELEV

"C:\Users\Leslie\AppData\Local\Temp\processing30ebabc0f3844302af111e184a46deea\207375cf6c214fc29b38c563de21ea7b\demssnad27lcc.sgrd" -MINSLOPE 0.01 -FILLED

"C:\Users\Leslie\AppData\Local\Temp\processing30ebabc0f3844302af111e184a46deea\8fb1dc9374ee4cea93f13f58b828018c\FILLED.sdat" -FDIR

"C:\Users\Leslie\AppData\Local\Temp\processing30ebabc0f3844302af111e184a46deea\9023bec26954e91a5cf2e01f43df720\FDIR.sdat" -WSHED

"C:\Users\Leslie\AppData\Local\Temp\processing30ebabc0f3844302af111e184a46deea\8fe1bc1b8684dc9b3297c2fdf1188b9\WSHED.sdat" -WSHED.sdat"

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

SAGA Version: 2.3.2 (32 bit)

library path: C:\PROGRA~1\QGIS2~1.18\apps\saga-ltr\modules\

library name: ta_preprocessor

library : Preprocessing

tool : Fill Sinks (Wang & Liu)

author : Copyrights (c) 2007 by Volker Wichmann

processors : 2 [2]

Load grid:

C:\Users\Leslie\AppData\Local\Temp\processing30ebabc0f3844302af111e184a46deea\207375cf6c214fc29b38c563de21ea7b\demssnad27lcc.sgrd...

Parameters

Grid system: 30.325388; 1362x 1144y; 463349.588191x 267606.598769y

DEM: demssnad27lcc

Filled DEM: Filled DEM

Flow Directions: Flow Directions

Watershed Basins: Watershed Basins

Minimum Slope [Degree]: 0.010000

Save grid:

C:\Users\Leslie\AppData\Local\Temp\processing30ebabc0f3844302af111e184a46deea\9023bec26954e91a5cf2e01f43df720\FDIR.sdat...[DIR.sdat...

Save grid:

C:\Users\Leslie\AppData\Local\Temp\processing30ebabc0f3844302af111e184a46deea\8fe1bc1b8684dc9b3297c2fdf1188b9\WSHED.sdat...SHED.sdat...

C:\PROGRA~1\QGIS2~1.18\bin>exit

2017-07-17T01:00:03 0 SAGA execution commands

ta_hydrology "Flow Accumulation (Top-Down)" -ELEVATION

"C:\Users\Leslie\AppData\Local\Temp\processing30ebabc0f3844302af111e184a46deea\8fb1dc9374ee4cea93f13f58b828018c\FILLED.sgrd...

FILLED.sgrd" -METHOD 0 -CAREA

"C:\Users\Leslie\AppData\Local\Temp\processing30ebabc0f3844302af111e184a46deea\ef8b47abf5f14cdfba5fb1aef6bc881b\CAREA.sdat..."

AREA.sdat"

2017-07-17T01:00:14 0 Salida de la consola de ejecución de SAGA

C:\PROGRA~1\QGIS2~1.18\bin>set SAGA=C:/PROGRA~1/QGIS2~1.18/apps\saga-ltr

C:\PROGRA~1\QGIS2~1.18\bin>set SAGA_MLB=C:/PROGRA~1/QGIS2~1.18/apps\saga-ltr\modules

C:\PROGRA~1\QGIS2~1.18\bin>PATH=C:\PROGRA~1\QGIS2~1.18\apps\Python27\lib\site-packages\Shapely-1.2.18-py2.7-win32.egg\shapely;C:\PROGRA~1\QGIS2~1.18\apps\Python27\lib\site-packages\numpy\core;C:\PROGRA~1\QGIS2~1.18\apps\qgis\bin;C:\PROGRA~1\QGIS2~1.18\apps\grass\grass-7.2.1\lib;C:\PROGRA~1\QGIS2~1.18\apps\grass\grass-7.2.1\bin;{app};C:\PROGRA~1\QGIS2~1.18\bin;C:\WINDOWS\system32;C:\WINDOWS;C:\WINDOWS\system32\WBem;C:\PROGRA~1\QGIS2~1.18\apps\Python27\Scripts;C:\Program Files\IR-R-3.4.0\bin\i386;C:\Program Files\IRStudio\bin;C:/PROGRA~1/QGIS2~1.18/apps\saga-ltr;C:/PROGRA~1/QGIS2~1.18/apps\saga-ltr\modules

```
C:\PROGRA~1\QGIS2~1.18\bin>saga_cmd ta_hydrology "Flow Accumulation (Top-Down)" -ELEVATION
"C:\Users\Leslie\AppData\Local\Temp\processing30ebabc0f3844302af111e184a46deea\8fb1dc9374ee4cea93f13f58b828018c\FILLED.sgrd"
FILLED.sgrd" -METHOD 0 -CAREA
"C:\Users\Leslie\AppData\Local\Temp\processing30ebabc0f3844302af111e184a46deea\ef8b47abf5f14cdfba5fb1aef6bc881b\CAREA.sdat"
AREA.sdat"
```

Unknown option 'CAREA'

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

SAGA Version: 2.3.2 (32 bit)

```
library path: C:\PROGRA~1\QGIS2~1.18\apps\saga-ltr\modules\
library name: ta_hydrology
library      : Hydrology
tool         : Flow Accumulation (Top-Down)
author       : O.Conrad (c) 2001-2016, T.Grabs portions (c) 2010
processors   : 2 [2]
```

Usage: saga_cmd ta_hydrology 0 [-ELEVATION <str>] [-SINKROUTE <str>] [-WEIGHTS <str>] [-FLOW <str>] [-VAL_INPUT <str>] [-VAL_MEAN <str>] [-ACCU_MATERIAL <str>] [-ACCU_TARGET <str>] [-ACCU_TOTAL <str>] [-ACCU_LEFT <str>] [-ACCU_RIGHT <str>] [-STEP <num>] [-FLOW_UNIT <str>] [-FLOW_LENGTH <str>] [-LINEAR_VAL <str>] [-LINEAR_DIR <str>] [-METHOD <str>] [-LINEAR_DO <str>] [-LINEAR_MIN <num>] [-CONVERGENCE <double>] [-NO_NEGATIVES <str>] [-WEIGHT_LOSS <str>]

```
-ELEVATION:<str>      Elevation
Grid (input)
-SINKROUTE:<str>      Sink Routes
Grid (optional input)
-WEIGHTS:<str>        Weights
Grid (optional input)
-FLOW:<str>           Flow Accumulation
Grid (output)
-VAL_INPUT:<str>       Input for Mean over Catchment
Grid (optional input)
-VAL_MEAN:<str>        Mean over Catchment
Grid (output)
-ACCU_MATERIAL:<str>   Material for Accumulation
Grid (optional input)
-ACCU_TARGET:<str>     Accumulation Target
Grid (input)
-ACCU_TOTAL:<str>      Accumulated Material
Grid (optional output)
-ACCU_LEFT:<str>       Accumulated Material (Left Side)
Grid (optional output)
-ACCU_RIGHT:<str>      Accumulated Material (Right Side)
```

Grid (optional output)
 -STEP:<num> Step
 Integer
 Minimum: 1
 Default: 1
 -FLOW_UNIT:<str> Flow Accumulation Unit
 Choice
 Available Choices:
 [0] number of cells
 [1] cell area
 Default: 1
 -FLOW_LENGTH:<str> Flow Path Length
 Grid (optional output)
 -LINEAR_VAL:<str> Linear Flow Threshold Grid
 Grid (optional input)
 -LINEAR_DIR:<str> Channel Direction
 Grid (optional input)
 -METHOD:<str> Method
 Choice
 Available Choices:
 [0] Deterministic 8
 [1] Rho 8
 [2] Braunschweiger Reliefmodell
 [3] Deterministic Infinity
 [4] Multiple Flow Direction
 [5] Multiple Triangular Flow Directon
 [6] Multiple Maximum Downslope Gradient Based Flow Directon
 Default: 4
 -LINEAR_DO:<str> Thresholded Linear Flow
 Boolean
 Default: 0
 -LINEAR_MIN:<num> Linear Flow Threshold
 Integer
 Default: 500
 -CONVERGENCE:<double> Convergence
 Floating point
 Minimum: 0.000000
 Default: 1.100000
 -NO_NEGATIVES:<str> Prevent Negative Flow Accumulation
 Boolean
 Default: 1
 -WEIGHT_LOSS:<str> Loss through Negative Weights
 Grid (optional output)

C:\PROGRA~1\QGIS2~1.18\bin>exit

2017-07-17T01:00:14 2 Error loading result layer:

Traceback (most recent call last):

File "C:/PROGRA~1/QGIS2~1.18/apps/qgis/.python/plugins\processing\gui\Postprocessing.py", line 77, in
 handleAlgorithmResults
 isRaster)
 File "C:/PROGRA~1/QGIS2~1.18/apps/qgis/.python/plugins\processing\tools\dataobjects.py", line 187, in load
 + "\nCheck the processing framework log to look for errors')
 RuntimeError: Could not load layer:

C:\Users\Leslie\AppData\Local\Temp\processing30ebabc0f3844302af111e184a46deea\ef8b47abf5f14cdfba5fb1aef6bc881b\CAREA.sdat[?] REA.sdat

Check the processing framework log to look for errors

Thanks.

History

#1 - 2017-07-17 05:41 PM - Giovanni Manghi

- Status changed from Open to Feedback

do you installed with the standalone or osgeo4w installer? if the latter what saga version have you installed and using, 2.1.2 or 2.3.2?

#2 - 2017-07-17 05:41 PM - Giovanni Manghi

- Assignee changed from Victor Olaya to Giovanni Manghi

#3 - 2017-07-17 05:43 PM - Mario Reyes

Giovanni Manghi wrote:

| do you installed with the standalone or osgeo4w installer? if the latter what saga version have you installed and using, 2.1.2 or 2.3.2?

I installed QGIS using the stand-alone installer. Thanks.

#4 - 2017-07-20 01:18 PM - Giovanni Manghi

- Status changed from Feedback to Closed

- Resolution set to fixed/implemented

Fixed here: <https://github.com/qgis/QGIS/pull/4895>

if you don't want to wait for the new point release of 2.18 you can easily apply by hand the changes, is just a matter of edit the description file with the correct parameter names.

#5 - 2017-07-21 09:25 PM - Mario Reyes

Giovanni Manghi wrote:

| Fixed here: <https://github.com/qgis/QGIS/pull/4895>

| if you don't want to wait for the new point release of 2.18 you can easily apply by hand the changes, is just a matter of edit the description file with the correct parameter names.

Thanks. Just a question, every time someone fixes a bug, do I have to wait for the next release or is it fixed if I download and install QGIS again?

| *Thanks. Just a question, every time someone fixes a bug, do I have to wait for the next release or is it fixed if I download and install QGIS again?*

if you don't want to manually apply the changes (as you can do easily as are in parts of the code is interpreted and not compiled) you need to wait for a new version or point release.