

QGIS Application - Bug report #7855

Error in OTB segmentation with certain projections

2013-05-18 02:50 AM - Luca Congedo

|                                 |                 |                              |
|---------------------------------|-----------------|------------------------------|
| Status:                         | Closed          |                              |
| Priority:                       | Normal          |                              |
| Assignee:                       | Victor Olaya    |                              |
| Category:                       | Processing/Core |                              |
| Affected QGIS version:          | 2.4.0           | Regression?: No              |
| Operating System:               | unspecified     | Easy fix?: No                |
| Pull Request or Patch supplied: |                 | Resolution: up/downstream    |
| Crashes QGIS or corrupts data:  |                 | Copied to github as #: 16733 |

Description

Hi,

I have the following error:

Oooops! SEXTANTE could not open the following output layers

Output vector file: /tmp/sextante/otbmeanshiftsegmentationlargescalevectoroutputbdc33d1cf5754b099ae93605846a76e8.shp  
The above files could not be opened, which probably indicates that they were not correctly produced by the executed algorithm

Checking the log information might help you see why those layers were not created as expected

when running the following command with the attached image:

```
sextante.runalg("otb:meanshiftsegmentationlargescalevectoroutput", "/home/user/Desktop/NorthCarolina.tif", 5, 0.1, 15, 100, 100, None, False, True, 1, 0, "layer", 1024, 1, 0, "", None)
```

This is the INFO log:

OTB execution console output

```
Segmentation -filter meanshift -in /home/user/Desktop/NorthCarolina.tif -filter.meanshift.spatialr 5 -filter.meanshift.thres 0.1 -filter.meanshift.ranger 15 -filter.meanshift.minsize 100 -filter.meanshift.maxiter 100 -mode.vector.stitch true -mode.vector.minsize 1 -mode.vector.simplify 0 -mode.vector.layername layer -mode.vector.tilesize 1024 -mode.vector.startlabel 1 -mode.vector.outmode ulco -mode vector -mode.vector.out /tmp/sextante/otbmeanshiftsegmentationlargescalevectoroutputc61bed2286f142c6ae8dee21876d8c96.shp
```

2013 May 18 11:36:25 : Application.logger (FATAL) Image projection reference PROJCS["NAD83(HARN) / North Carolina",  
GEOGCS["NAD83(HARN)",  
DATUM["NAD83\_High\_Accuracy\_Reference\_Network",  
SPHEROID["GRS 1980",6378137,298.2572221010042,  
AUTHORITY["EPSG","7019"]],  
TOWGS84[0,0,0,0,0,0,0],  
AUTHORITY["EPSG","6152"]],  
PRIMEM["Greenwich",0],  
UNIT["degree",0.0174532925199433],

```
AUTHORITY["EPSG","4152"],
PROJECTION["Lambert_Conformal_Conic_2SP"],
PARAMETER["standard_parallel_1",36.16666666666666],
PARAMETER["standard_parallel_2",34.33333333333333],
PARAMETER["latitude_of_origin",33.75],
PARAMETER["central_meridian",-79],
PARAMETER["false_easting",609601.22],
PARAMETER["false_northing",0],
UNIT["metre",1,
  AUTHORITY["EPSG","9001"]],
AUTHORITY["EPSG","3358"]]
```

2013 May 18 11:36:25 : Application.logger (FATAL) The following error occurred during application execution :  
/build/buildd/otb-3.16.0/Applications/Segmentation/otbSegmentation.cxx:493:  
itk::ERROR: Segmentation(0x8713470): Image spatial reference can't be converted to ESRI. Use another output format  
(kml,SQLite,...) to overcome .shp limitation

I think it is related to an issue of OTB, about certain projections, described here:

<https://groups.google.com/forum/?fromgroups#!topic/otb-users/OTe-TnCyVj0> and <http://bugs.orfeo-toolbox.org/view.php?id=572>

Thank you

## History

### #1 - 2013-05-18 03:18 AM - Giovanni Manghi

- Status changed from Open to Feedback

it seems that the meanshiftsegmentation tools with vector output only work if the input is in wgs84, but if is a OTB issue there is not much that SEXTANTE can do.

### #2 - 2013-05-18 04:01 AM - Luca Congedo

Giovanni Manghi wrote:

*it seems that the meanshiftsegmentation tools with vector output only work if the input is in wgs84, but if is a OTB issue there is not much that SEXTANTE can do.*

Yes, maybe it could be useful to check if raster projection is in wgs84 and, if not, to provide a message that meanshiftsegmentation does not work with that raster projection.

Cheers!

### #3 - 2014-03-26 07:35 AM - Alexander Bruy

- Category set to 57

### #4 - 2014-03-28 12:59 AM - Manuel Grizonnet

It is not true that the OTB Segmentation only support WGS84 but on the other hand the application tests if the output projection is compatible with the

output vector format if it is ESRI Shapefile.

We're using gdal/OGR API to test this and it is more a limitation of the Shapefile format:

<http://hg.orfeo-toolbox.org/OTB/file/c10e2afb9ade/Code/Common/otbGeoInformationConversion.cxx#l66>

This test is perhaps not valid and there is somehow a way to write a shapefile in the projection dump the INFO log above. We did not find for now in OTB how to do this.

Let me know if someone more familiar with shp format and specific projection system got some info about it.

Cheers!

**#5 - 2014-10-04 11:45 AM - Giovanni Manghi**

- *Crashes QGIS or corrupts data set to No*
- *Affected QGIS version set to 2.4.0*
- *Category deleted (57)*
- *Project changed from 78 to QGIS Application*

**#6 - 2014-10-04 11:46 AM - Giovanni Manghi**

- *Category set to 120*

**#7 - 2014-10-04 11:47 AM - Giovanni Manghi**

- *Assignee set to Victor Olaya*

**#8 - 2014-10-12 10:29 AM - Giovanni Manghi**

- *Resolution set to up/downstream*
- *Status changed from Feedback to Closed*

**#9 - 2017-05-01 10:58 AM - Giovanni Manghi**

- *Regression? set to No*

**#10 - 2017-05-01 11:01 AM - Giovanni Manghi**

- *Easy fix? set to No*

**#11 - 2017-05-01 11:04 AM - Giovanni Manghi**

Some providers are being removed from QGIS/Processing (will be available as plugin) and so are their categories in the bug tracker. To not leave them orphaned of a category they are being reassigned to processing/core.

**#12 - 2017-05-01 11:06 AM - Giovanni Manghi**

- *Category changed from 120 to Processing/Core*

| Files             |         |            |              |
|-------------------|---------|------------|--------------|
| NorthCarolina.zip | 1.33 MB | 2013-05-18 | Luca Congedo |