

QGIS Application - Bug report #19115

[processing] Optional band rise exception in Batch mode (QgsProcessingParameterRasterLayer)

2018-06-05 10:02 AM - Luigi Pirelli

Status:	Closed	
Priority:	High	
Assignee:	Luigi Pirelli	
Category:	Processing/Core	
Affected QGIS version:	3.1(master)	Regression?: Yes
Operating System:	Ubuntu 16.04	Easy fix?: Yes
Pull Request or Patch supplied:		Resolution:
Crashes QGIS or corrupts data:		Copied to github as #: 26945
Description		
As far I can see, most of commands that use optional QgsProcessingParameterBand fail running alg in batch mode due to control like this: https://github.com/qgis/QGIS/blob/master/python/plugins/processing/algs/gdal/gdalcalc.py#L225 because the value for the band is "". I can fix gdalcalc, but probably it's a more general problem related with the meaning of default in optional QgsProcessingParameterBand		

Associated revisions

Revision fa7879ad - 2018-06-05 11:53 AM - Luigi Pirelli

[processing] Correct management of optional rasters in batch mode. Fixes #19115

Revision b2fce736 - 2018-06-05 12:47 PM - Luigi Pirelli

Merge pull request #7180 from luipir/processing_optional_value_default_in_batch_fix19115

[processing] Correct management of optional rasters in batch mode. Fixes #19115

History

#1 - 2018-06-05 10:04 AM - Luigi Pirelli

- Assignee set to Nyall Dawson

Hi Nyall I assign to you, just because I suppose you can fix in a minute. It's not clear to me if giving a default return to None to QgsProcessingParameterBand can have side effects

#2 - 2018-06-05 11:28 AM - Luigi Pirelli

- Subject changed from [processing] Optional band rise exception in Batch mode (QgsProcessingParameterBand) to [processing] Optional band rise exception in Batch mode (QgsProcessingParameterRasterLayer)

How to reproduce

1) get a generic raster in qgis

- 2) open processing alg: e.g. gdal raster calculator
- 3) open "run as batch process"
- 4) add raster layer (step1) and layer A (mandatory) and leave empty any other layer (optional)
- 5) run =>

Traceback (most recent call last):

```
File "/mnt/data/PROGRAMMING/QGIS/QGIS-master/build/output/python/plugins/processing/algs/gdal/GdalAlgorithm.py", line 119, in processAlgorithm
  commands = self.getConsoleCommands(parameters, context, feedback, executing=True)
File "/mnt/data/PROGRAMMING/QGIS/QGIS-master/build/output/python/plugins/processing/algs/gdal/gdalcalc.py", line 228, in getConsoleCommands
  raise QgsProcessingException(self.invalidRasterError(parameters, self.INPUT_B))
_core.QgsProcessingException: Could not load source layer for INPUT_B: invalid value
```

but it is optional!

#3 - 2018-06-05 11:32 AM - Luigi Pirelli

this is the run log

Processing algorithm 1/1...

Algorithm Raster calculator starting...

```
Input parameters: {'BAND_A': 1,
'BAND_B': -1,
'BAND_C': -1,
'BAND_D': -1,
'BAND_E': -1,
'BAND_F': -1,
'EXTRA': '',
'FORMULA': 'A*2',
'INPUT_A': 'landcover',
'INPUT_B': '',
'INPUT_C': '',
'INPUT_D': '',
'INPUT_E': '',
'INPUT_F': '',
'NO_DATA': None,
'OPTIONS': '',
'OUTPUT': <QgsProcessingOutputLayerDefinition {'sink': '/tmp/pippo.tif', 'createOptions': {}}>,
'RTYPE': 5}
```

Traceback (most recent call last):

```
File "/mnt/data/PROGRAMMING/QGIS/QGIS-master/build/output/python/plugins/processing/algs/gdal/GdalAlgorithm.py", line 119, in processAlgorithm
  commands = self.getConsoleCommands(parameters, context, feedback, executing=True)
File "/mnt/data/PROGRAMMING/QGIS/QGIS-master/build/output/python/plugins/processing/algs/gdal/gdalcalc.py", line 228, in getConsoleCommands
  raise QgsProcessingException(self.invalidRasterError(parameters, self.INPUT_B))
_core.QgsProcessingException: Could not load source layer for INPUT_B: invalid value
```

#4 - 2018-06-05 11:35 AM - Luigi Pirelli

parameters if NOT run as batch are

Processing algorithm...

Algorithm 'Raster calculator' starting...

```
Input parameters: {'BAND_B' : -1, 'BAND_C' : -1, 'INPUT_A' : '/home/ginetto/PROGRAMMING/GIS/GISDATA/qgis_sample_data/raster/landcover.img',
```

'INPUT_B' : None, 'EXTRA' : "", 'BAND_D' : -1, 'OUTPUT' :

'/tmp/processing_15f1ccd70fc94dcc8af15be11fbb2182/85718598606f4759946e1883d6879506/OUTPUT.tif', 'FORMULA' : 'A*2', 'NO_DATA' : None, 'RTYPE' : 5, 'INPUT_F' : None, 'INPUT_D' : None, 'OPTIONS' : "", 'INPUT_E' : None, 'BAND_E' : -1, 'INPUT_C' : None, 'BAND_F' : -1, 'BAND_A' : 1 }

GDAL command:

```
gdal_calc --calc "A*2" --format GTiff --type Float32 -A /home/ginetto/PROGRAMMING/GIS/GISDATA/qgis_sample_data/raster/landcover.img --A_band 1 --outfile /tmp/processing_15f1ccd70fc94dcc8af15be11fbb2182/85718598606f4759946e1883d6879506/OUTPUT.tif
```

so it's clear that the way to build param disctionary works in different way depending if it is in batch or not

#5 - 2018-06-05 11:42 AM - Luigi Pirelli

- Assignee changed from Niyall Dawson to Luigi Pirelli

#6 - 2018-06-05 12:46 PM - Luigi Pirelli

- % Done changed from 0 to 100

- Status changed from Open to Closed

Applied in changeset commit:qgis|fa7879ade16515784be51ab6d2170604eb5ea5f5.