# QGIS Application - Bug report #20912
# gdalwarp on 3.4.3 behaving differently to 3.4.2

2019-01-03 10:16 PM - Ross Edwards

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|---|---|---|---|---|
| **Status:** | Closed | | | |
| **Priority:** | Normal | | | |
| **Assignee:** | Ross Edwards | | | |
| **Category:** | GDAL Tools | | | |
| **Affected QGIS version:** | 3.4.3 | **Regression?:** | No | |
| **Operating System:** | Windows 10 | **Easy fix?:** | No | |
| **Pull Request or Patch supplied:** | No | **Resolution:** | up/downstream | |
| **Crashes QGIS or corrupts data:** | Yes | **Copied to github as #:** | 28731 | |

## Description

I found an entirely repeatable issue with gdalwarp commands that worked perfectly on 3.4.2, but on 3.4.3 they appear to generate slightly off height and width.

on 3.4.2 I run the following 2 commands separately in Python console -

gdalwarp -t_srs EPSG:32631 -wo SOURCE_EXTRA=1000 -tr 5.0 5.0 -r cubic -of GTiff "E:/Users/rosso/Arma/Terrain Heightmaps/Heightmaps Opentopo/output_srtm.asc" D:/Arma/QGIS/crm4.tif

gdalwarp -of GTiff -cutline E:\Users\rosso\Arma\QGIS\UTM31N\Test23-11-18\shape.shp -crop_to_cutline "D:/Arma/QGIS/crm4.tif" D:/Arma/QGIS/cut6.tif

which generates a perfect 8192 x 8192 tif

https://ibb.co/6PmvQ8x

However running exactly the same on 3.4.3

gdalwarp -t_srs EPSG:32631 -wo SOURCE_EXTRA=1000 -tr 5.0 5.0 -r cubic -of GTiff "E:/Users/rosso/Arma/Terrain Heightmaps/Heightmaps Opentopo/output_srtm.asc" D:/Arma/QGIS/crm5.tif

gdalwarp -of GTiff -cutline E:\Users\rosso\Arma\QGIS\UTM31N\Test23-11-18\shape.shp -crop_to_cutline "D:/Arma/QGIS/crm5.tif" D:/Arma/QGIS/cut7.tif

I get a tif with 8191 x 8191

https://ibb.co/0GcptBT

## History

**#1 - 2019-01-03 11:58 PM - Ross Edwards**

Just to confirm the shapefile feature used to cut the tif is a perfect square 40960 x 40960 so at 5m resolution I expect 8192 output

**#2 - 2019-01-04 01:32 AM - Nyall Dawson**

*- Resolution set to up/downstream*

*- Status changed from Open to Closed*

If the difference is encountered when using the exact same gdal command then the change must be in gdal itself -- you'll need to file this on gdal's tracker.