

QGIS Application - Bug report #13169

Georeferencer produces invalid Geotiff Information in some cases

2015-07-29 08:00 AM - Adam Szieberth

Status:	Closed	
Priority:	Normal	
Assignee:		
Category:	C++ plugins/Georeferencer	
Affected QGIS version:	2.6.1	Regression?: No
Operating System:	Windows	Easy fix?: No
Pull Request or Patch supplied:	No	Resolution:
Crashes QGIS or corrupts data:	No	Copied to github as #: 21232
Description		
In some cases the georeferencer produces invalid Geotiff Information. I attached an example TIFF file for georeferencing. Georeferencer settings: Helmert; Lanczos;LZW;SRS:"EPSG:23700". [Z:\GIS\adam_szkriptej"C:\Program Files\QGIS Brighton\bin\listgeo.exe" 0.tif Geotiff_Information: Version: 1 Key_Revision: 1.0 Tagged_Information: ModelTiepointTag (2,3): 0 0 0 553955.398797477 82861.388376936 0 ModelPixelScaleTag (1,3): 0.08849110111781320.08849110111781320 End_Of_Tags. Keyed_Information: GTModelTypeGeoKey (Short,1): ModelTypeProjected GTRasterTypeGeoKey (Short,1): RasterPixelsArea UTCitationGeoKey (Ascii,11): "HD72 / EOVS" GeogCitationGeoKey (Ascii,5): "HD72" GeogAngularUnitsGeoKey (Short,1): Angular_Degree ProjectedCSTypeGeoKey (Short,1): PCS_HD72_EOV ProjLinearUnitsGeoKey (Short,1): Linear_Meter End_Of_Keys. End_Of_Geotiff. PCS = 23700 (name unknown) Projection Linear Units: 9001/metre (1.000000m) Corner Coordinates: Upper Left (553955.399, 82861.388) Lower Left (553955.399, 82624.675) Upper Right (554427.499, 82861.388) Lower Right (554427.499, 82624.675) Center (554191.449, 82743.032) Here ModelPixelScaleTag format is invalid due to the many decimal places. Writing it back to the tif with geotifcp -g and printing it again produces the following:		

[Z:\\GIS\\adam_szkripte]\"C:\\Program Files\\QGIS Brighton\\bin\\listgeo.exe\" 0.uj.tif

Geotiff_Information:

Version: 1

Key_Revision: 1.0

Tagged_Information:

ModelTiepointTag (2,3):

0 0 0

553955.398797477 82861.388376936 0

ModelPixelScaleTag (1,3):

0.08849110111781320 0

End_Of_Tags.

Keyed_Information:

GTModelTypeGeoKey (Short,1): ModelTypeProjected

GTRasterTypeGeoKey (Short,1): RasterPixelsArea

UTCitationGeoKey (Ascii,11): "HD72 / EOV"

GeogCitationGeoKey (Ascii,5): "HD72"

GeogAngularUnitsGeoKey (Short,1): Angular_Degree

ProjectedCSTypeGeoKey (Short,1): PCS_HD72_EOV

ProjLinearUnitsGeoKey (Short,1): Linear_Meter

End_Of_Keys.

End_Of_Geotiff.

PCS = 23700 (name unknown)

Projection Linear Units: 9001/metre (1.000000m)

Corner Coordinates:

Upper Left (553955.399, 82861.388)

Lower Left (553955.399, 82861.388)

Upper Right (554427.499, 82861.388)

Lower Right (554427.499, 82861.388)

Center (554191.449, 82861.388)

As you can see all the second coordinates became identical due to the second pixelscale become zero.

As a workaround, manually rounding the original ModelPixelScaleTags solves the issue:

ModelPixelScaleTag (1,3):

0.08849110111781 0.08849110111781 0

History

#1 - 2015-07-30 01:36 PM - Giovanni Manghi

- Status changed from Open to Feedback
- Category set to C++ plugins/Georeferencer

There have been fixes in the georeferencer in the latest qgis version, 2.10, please give it a try and report back.

#2 - 2015-07-30 02:37 PM - Adam Szieberth

Sure, please give me 2-3 weeks.

#3 - 2015-08-11 01:29 AM - Adam Szieberth

Issue is fixed in 2.10. We switch to the new version. Thanks!

#4 - 2015-08-11 03:32 AM - Adam Szieberth

- Status changed from Feedback to Closed

Files			
example.tif	1.41 MB	2015-07-29	Adam Szieberth
example.tif.points	152 Bytes	2015-07-29	Adam Szieberth