QGIS Application - Bug report #3348
GDAL TIFF dataset masking not fully supported

2010-12-17 01:23 PM - darkblueb -

Status:	Closed		
Priority:	Low		
Assignee:			
Category:	Rasters		
Affected QGIS version:	2.2.0	**Regression?:**	No
Operating System:	All	**Easy fix?:**	No
Pull Request or Patch supplied:	No	**Resolution:**	fixed/implemented
Crashes QGIS or corrupts data:	No	**Copied to github as #:**	13408

Description

recent improvements in masking of TIFF by GDAL can generate images that QGis does not completely support. Improved support would understand the masks and render only non-masked pixels. note that mapserver trunk understands this masking right now..

Related issues:

Duplicates QGIS Application - Bug report # 2491: Raster transparency doesn't ...	**Closed**

History

#1 - 2011-10-27 11:24 AM - Alexander Bruy

- Pull Request or Patch supplied set to No

- Status changed from Open to Closed

- Assignee deleted (nobody -)

- Resolution set to duplicate

Duplicate #2491

#2 - 2014-03-11 08:43 AM - Benjamin Schepers

- Affected QGIS version set to 2.2.0

- Crashes QGIS or corrupts data set to No

- Target version changed from Version 1.7.0 to Version 2.2

- Status changed from Closed to Reopened

Internal NoData-Masks in GeoTIFFs seem not to be respected by QGIS. The masked area is shown black (Value "0,0,0") and not transparent ("NoData") as it should.
Internal NoData-Masks are possible since GDAL 1.6.0 --> http://www.gdal.org/frmt_gtiff.html

Use-Case are large aerial images (BigTIFFs with JPEG-Compression and internal tiles, internal pyramids an **nodata-masks** for all layers) with non-rectangle borders/masks (because of administrative borders, which - of course - don't respect classic rectangle BBOXes). Many of those large images (50+) should be shown patched together; this works flawlessly and with a not too big performance-hit in mapserver (and also ArcGIS :-( ).

WORKAROUND: the internal nodata-mask could be mapped to the alpha-channel with the use of gdal_translate and a VRT.
gdal_translate -b 1 -b 2 -b 3 -b mask -of VRT $SOURCE.tif $TARGET.vrt
After adding the VRT to QGIS, there is the possibility to select the new "channel 4" as transparency-channel.

IMHO a BUGFIX or "general" nodata-mask-support would be more performant and satisfying...

EDIT: Refering to #6360 there could be another checkbox "nodata-value from internal mask"?

#3 - 2014-06-28 07:36 AM - Jürgen Fischer

- Target version changed from Version 2.2 to Future Release - Lower Priority

#4 - 2017-05-01 01:09 AM - Giovanni Manghi

- Regression? set to No

- Easy fix? set to No

#5 - 2017-08-30 10:55 AM - Even Rouault

- Status changed from Reopened to Closed

- Resolution changed from duplicate to fixed/implemented

Was implemented per commit:0f16eb869cf5efbce531fcb617aab36d09755306 in QGIS 3