

## Application: gvSIG desktop - gvSIG bugs #4650

### 3d view ignoring mdt values

09/04/2017 11:07 PM - Mario Fevre

<b>Status:</b> Invalid	<b>% Done:</b> 0%
<b>Priority:</b> Normal	<b>Spent time:</b> 0.00 hour
<b>Assignee:</b>	
<b>Category:</b>	
<b>Target version:</b> 2.4.0-2835 (rev. org.gvsig.desktop-2.0.202)	
<b>Severity:</b> Minor	<b>Add-on version:</b>
<b>gvSIG version:</b> 2.4.0	<b>Add-on build:</b>
<b>gvSIG build:</b> 2834	<b>Add-on resolve version:</b>
<b>Operative System:</b> Windows	<b>Add-on resolve build:</b>
<b>Keywords:</b>	<b>Proyecto:</b>
<b>Has patch:</b>	<b>Hito:</b>
<b>Add-on name:</b> Unknown	

**Description**

Using 3d with this layer as mdt, resulting elevation is 0m. screenshot attached.

original tif raster file can be downloaded here:

[[[http://190.111.246.33/almacen/carga/2017-06-14\\_chocon\\_1mts\\_MDT.tif](http://190.111.246.33/almacen/carga/2017-06-14_chocon_1mts_MDT.tif)]]  
(58 mb)

#### History

##### #1 - 09/05/2017 03:40 PM - Antonio Falciano

- Target version set to 2.4.0-2835 (rev. org.gvsig.desktop-2.0.202)
- Status changed from New to Invalid

Hi Mario,

[2017-06-14\\_chocon\\_1mts\\_MDT.tif](http://190.111.246.33/almacen/carga/2017-06-14_chocon_1mts_MDT.tif) has not a declared NoData value. You can verify it in the Raster properties. So you should set the NoData value (-32767 in this case) in the last textbox of the 3D tab of Raster properties in order to work correctly. Because this issue is not a gvSIG one, but related to data, I set this ticket as Invalid.

##### #2 - 09/05/2017 04:44 PM - Mario Fevre

- File *pantalla2.png* added

Hi Antonio,

Thanks for the explanation. In advance in sorry this the missworking becomes from my lack of experience instead of a software error.

But, as you can see, in my original post, in raster layer properties 3D, was already set -32767 al null value.

Now I run a new test with the raster file corrected, nodata value set in -32767.

The result still the same, at.

<http://190.111.246.33/almacen/carga/raster.zip>

as you can see in attached screenshot.

### #3 - 09/05/2017 06:27 PM - Antonio Falciano

These are the steps I follow in order to have the DTM elevation in a 3D view:

- create a View, if it not exists yet;
- open the View properties | 3D tab, uncheck the "Show default elevation" option, click on Apply and then Accept;
- add the DTM layer and open its Raster properties | 3D tab, edit the NoData value, click on Apply and then Accept;
- open a Spherical (or Flat) 3D View, activate the (2D) View and then click on "Synchronize 3D viewport" button;
- in the 3D View, increase the vertical exaggeration clicking on the upper right control.

Result: you should see only the elevation coming from your DTM layer.

### #4 - 09/05/2017 06:40 PM - Mario Fevre

I included, this missing step (uncheck "Show default elevation")  
But no satisfying result. Elevation remains 0m. in every all along.

Any test I could run?

### #5 - 09/06/2017 10:58 AM - Antonio Falciano

- File *mdt3d.png* added

Antonio Falciano wrote:

[2017-06-14\\_chocon\\_1mts\\_MDT.tif](#) has not a declared NoData value. You can verify it in the Raster properties. [...]

I'm sorry, but the above affirmation is not right... In fact, executing gdalinfo:

```
>gdalinfo 2017-06-14_chocon_1mts_MDT.tif
Driver: GTiff/GeoTIFF
Files: 2017-06-14_chocon_1mts_MDT.tif
Size is 8874, 3694
Coordinate System is:
PROJCS["POSGAR 94 / Argentina 2",
  GEOGCS["WGS 84",
    DATUM["WGS_1984",
      SPHEROID["WGS 84",6378137,298.2572235604902,
        AUTHORITY["EPSG","7030"]],
      AUTHORITY["EPSG","6326"]],
    PRIMEM["Greenwich",0],
    UNIT["degree",0.0174532925199433],
    AUTHORITY["EPSG","4326"]],
  PROJECTION["Transverse_Mercator"],
  PARAMETER["latitude_of_origin",-90],
  PARAMETER["central_meridian",-69],
  PARAMETER["scale_factor",1],
  PARAMETER["false_easting",2500000],
  PARAMETER["false_northing",0],
  UNIT["metre",1,
    AUTHORITY["EPSG","9001"]],
  AUTHORITY["EPSG","22182"]]
```

Origin = (2512571.020050520100000,5656136.577992312600000)

Pixel Size = (0.923529999999979,-0.923529999999941)

Metadata:

AREA\_OR\_POINT=Point

Image Structure Metadata:

COMPRESSION=LZW

INTERLEAVE=BAND

Corner Coordinates:

Upper Left ( 2512571.020, 5656136.578) ( 68d51'15.76"W, 39d14'45.75"S)

Lower Left ( 2512571.020, 5652725.058) ( 68d51'15.53"W, 39d16'36.37"S)

Upper Right ( 2520766.425, 5656136.578) ( 68d45'33.99"W, 39d14'45.18"S)

Lower Right ( 2520766.425, 5652725.058) ( 68d45'33.61"W, 39d16'35.81"S)

Center ( 2516668.723, 5654430.818) ( 68d48'24.72"W, 39d15'40.81"S)

Band 1 Block=8874x1 Type=Float32, ColorInterp=Gray

NoData Value=-32767

we can note that the NoData value is correctly set (see the last line), so gvSIG is not able to read it (gvSIG bug). So setting the NoData value manually is a workaround in this case. I attach a screenshot showing that the 3D rendering of your elevation data works (on Windows 7 64 bits at least). I've opened another ticket about the NoData recognition (#4652).

mdt3d.png

## Files

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captura.png	1.02 MB	09/04/2017	Mario Fevre
pantalla2.png	1.04 MB	09/05/2017	Mario Fevre
mdt3d.png	957 KB	09/06/2017	Antonio Falciano