

QGIS Application - Bug report #20730

Netcdf mesh aligned, or not?

2018-12-05 11:59 AM - Richard Duivenvoorde

Status:	Open	
Priority:	Normal	
Assignee:	Peter Petrik	
Category:	Data Provider/MDAL	
Affected QGIS version:	3.5(master)	Regression?: No
Operating System:	Ubuntu 16.04	Easy fix?: No
Pull Request or Patch supplied:		Resolution:
Crashes QGIS or corrupts data:		Copied to github as #: 28550
Description		
<p>I created a small 7x3 cell netcdf with a python script: test.nc (attached)</p> <p>Loaded in QGIS3 as gdal raster you see 7x3 cells</p> <p>Loaded as netcdf in Geoserver and served as wms you see 7x3 cells</p> <p>If you load this small set as Mesh in QGIS3 you see 6x2 cells.</p> <p>In the attached 'mesh.png' those three layers are all visible.</p> <p>Note that I'm no netcdf expert! So I'm 100% sure that this IS actually a problem.</p> <p>I think all depends on the definition of a mesh: is it the middle point of grid cells or not?</p> <p>When loaded in Panoply netcdf viewer: https://www.giss.nasa.gov/tools/panoply/</p> <p>you also can see both situations see attached screenies:</p> <p>panoply_interpolate.png zoomed in to test.png and checkbox 'interpolate' checked</p> <p>panoplyNOinterpolate.png: checkbox 'interpolate' UNchecked.</p> <p>So my feeling is that it depends on the interpretation of a mesh/grid and it's visualisation.</p> <p>Maybe some netcdf guru's can have a say about this?</p> <p>Peter Petrik asked me to create this issue to further investigate.</p>		

Files			
mesh.png	117 KB	2018-12-05	Richard Duivenvoorde
test.nc	18.1 KB	2018-12-05	Richard Duivenvoorde
panoplyNOinterpolate.png	31.3 KB	2018-12-05	Richard Duivenvoorde
panoply_interpolate.png	97.9 KB	2018-12-05	Richard Duivenvoorde