

QGIS Application - Bug report #5357

kml innerBoundaryIs

2012-04-14 06:21 PM - Chris Chaudoir

Status: Closed	
Priority: Normal	
Assignee:	
Category:	
Affected QGIS version: master	Regression?: No
Operating System:	Easy fix?: No
Pull Request or Patch supplied:	Resolution: wontfix
Crashes QGIS or corrupts data:	Copied to github as #: 15052

Description

When importing a kml vector layer, the parser only recognizes the first of multiple linear rings nested within a single set of innerBoundaryIs tags.

For example:

```
<outerBoundaryIs>
  <LinearRing>
    <coordinates>      {Big poygon}
    </coordinates>
  </LinearRing>
</outerBoundaryIs>
<innerBoundaryIs>
  <LinearRing>
    <coordinates>      {1st hole in Big polygon}
    </coordinates>
  </LinearRing>
  <LinearRing>
    <coordinates>      {This second hole is being ignored}
    </coordinates>
  </LinearRing>
</innerBoundaryIs>
```

Note, the parser will recognize the 2nd hole, if it is withing a 2nd set of innerBoundaryIs tags, but combining multiple holes within a single set of innerBoundaryIs tags is legal, more efficient, and how Google Earth exports kml layers.

History

#1 - 2012-04-15 12:57 AM - Giovanni Manghi

- Status changed from Open to Feedback

Hi, is this a QGIS issue or an ogr one?

#2 - 2012-04-15 04:47 AM - Richard Duivenvoorde

- Resolution set to wontfix

- File fromshp.kml added

Although the kml you sent is viewable in GoogleEarth, I think your kml is not valid.
Where did you get it from?

Even GoogleMaps is showing just one of the innerrings. you can check via this url:

<http://maps.google.com/?q=https://issues.qgis.org/attachments/4394/example.kml>

Both qgis and ogr2ogr show and or generate a polygon with just one hole.

This online validator is also complaining <http://kmlvalidator.com/home.htm> if you give it <https://issues.qgis.org/attachments/4394/example.kml>

BUT if I create a shapefile in qgis with a polygon with several holes, AND i save this polygon as a KML, qgis shows all holes.

I attach my example here fromshp.kml

As you can see it has a different layout for the innerrings:

```
<Polygon>
  <outerBoundaryIs>
    <LinearRing>
      <coordinates>...</coordinates>
    </LinearRing>
  </outerBoundaryIs>
  <innerBoundaryIs>
    <LinearRing>
      <coordinates>...</coordinates>
    </LinearRing>
  </innerBoundaryIs>
  <innerBoundaryIs>
    <LinearRing>
      <coordinates>...</coordinates>
    </LinearRing>
  </innerBoundaryIs>
</Polygon>
```

I will close this ticket as I think it is not a QGIS bug

#3 - 2012-04-15 04:50 AM - Richard Duivenvoorde

- Status changed from Feedback to Closed

#4 - 2012-04-15 05:22 AM - Chris Chaudoir

- File 51.kml added

I now think this must be a Google Earth bug. The example file I submitted was exported from (Save As) Google Earth. The initial file (correctly tagged) I generated using text editor, by pasting-in the holes, each inside its own innerBoundaryIs tag.

I could open the initial file correctly in QGIS and Google Earth. But when saved the layer using Google Earth (the example file I submitted), the three sets of tags are replaced by a single tag that encloses all three holes.

Thanks for the help, and sorry this took up your time.

Attached is the original file I created, which is formatted correctly.

Files				
example.kml	14.9 KB	2012-04-14		Chris Chaudoir
fromshp.kml	1.64 KB	2012-04-15		Richard Duivenvoorde
51.kml	15 KB	2012-04-15		Chris Chaudoir