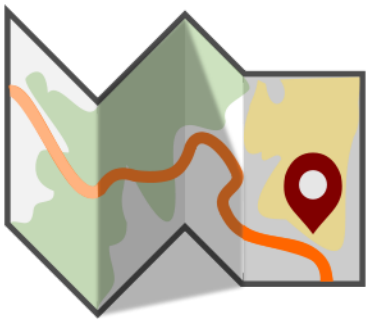
# Points in Polygon Analysis

## QGIS Tutorials and Tips



Author

Ujaval Gandhi

http://google.com/+UjavalGandhi

Translations by

SongHyun Choi

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Natural Earth□ Admin 0 – Countries □□□□□ □□□ □□□□. `countries <http://www.naturalearthdata.com/http//www.naturalearthdata.com/download/10m/cultural/ne_10m_admin_0_countries.zip>`_□ □□□□ □□□.

For convenience, you may directly download a copy of the dataset from the link below:

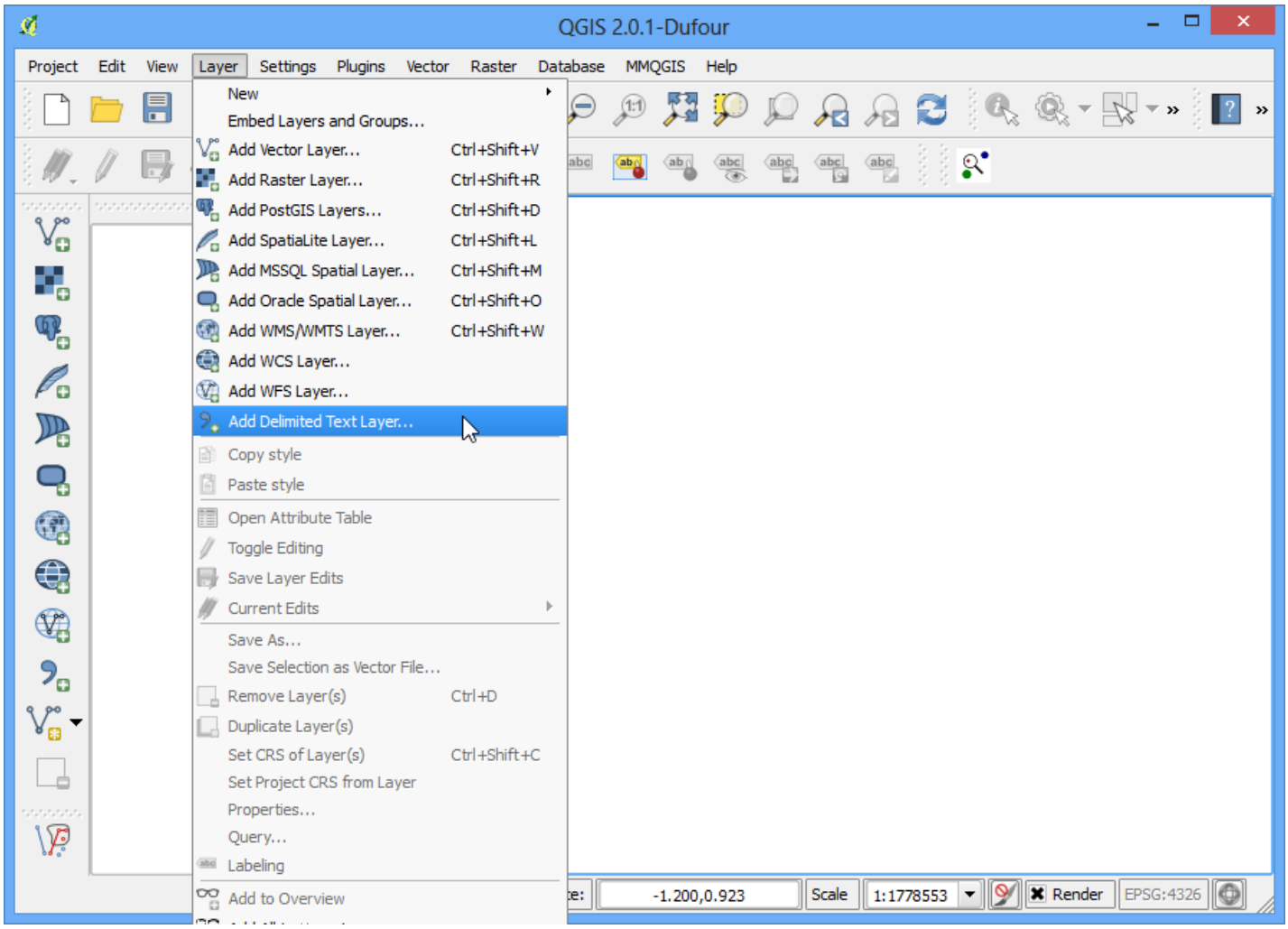
signif.txt

ne_10m_admin_0_countries.zip

□□□ □□: [NGDC] [NATURALEARTH]

## □□

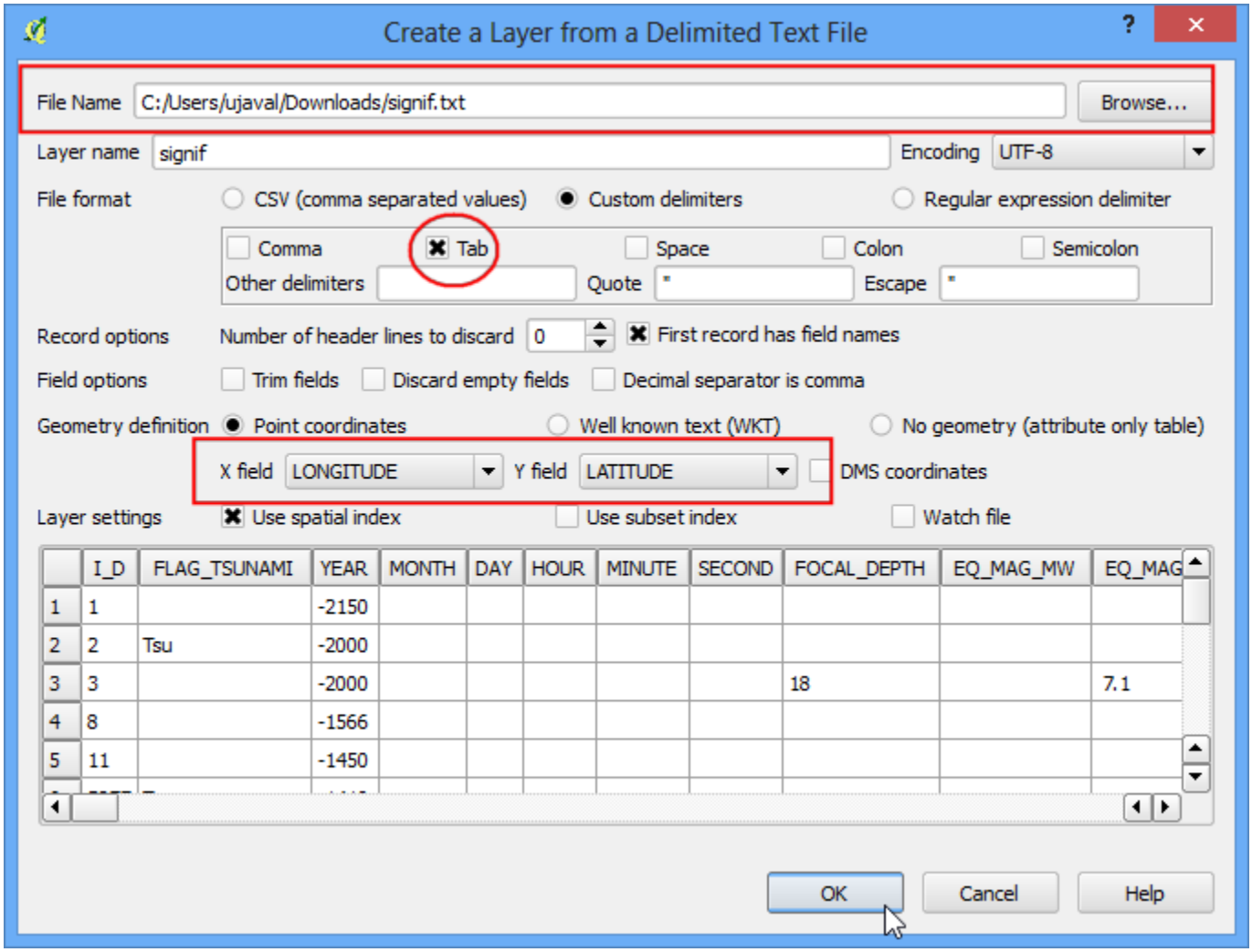
1. □□ □□□ --> □□□□ □□□ □□□ □□□ □□ :menuselection:`Layer --> Add Delimited Text Layer`□ □□ □□□□□ ``signif.txt``□□□ □□□□.



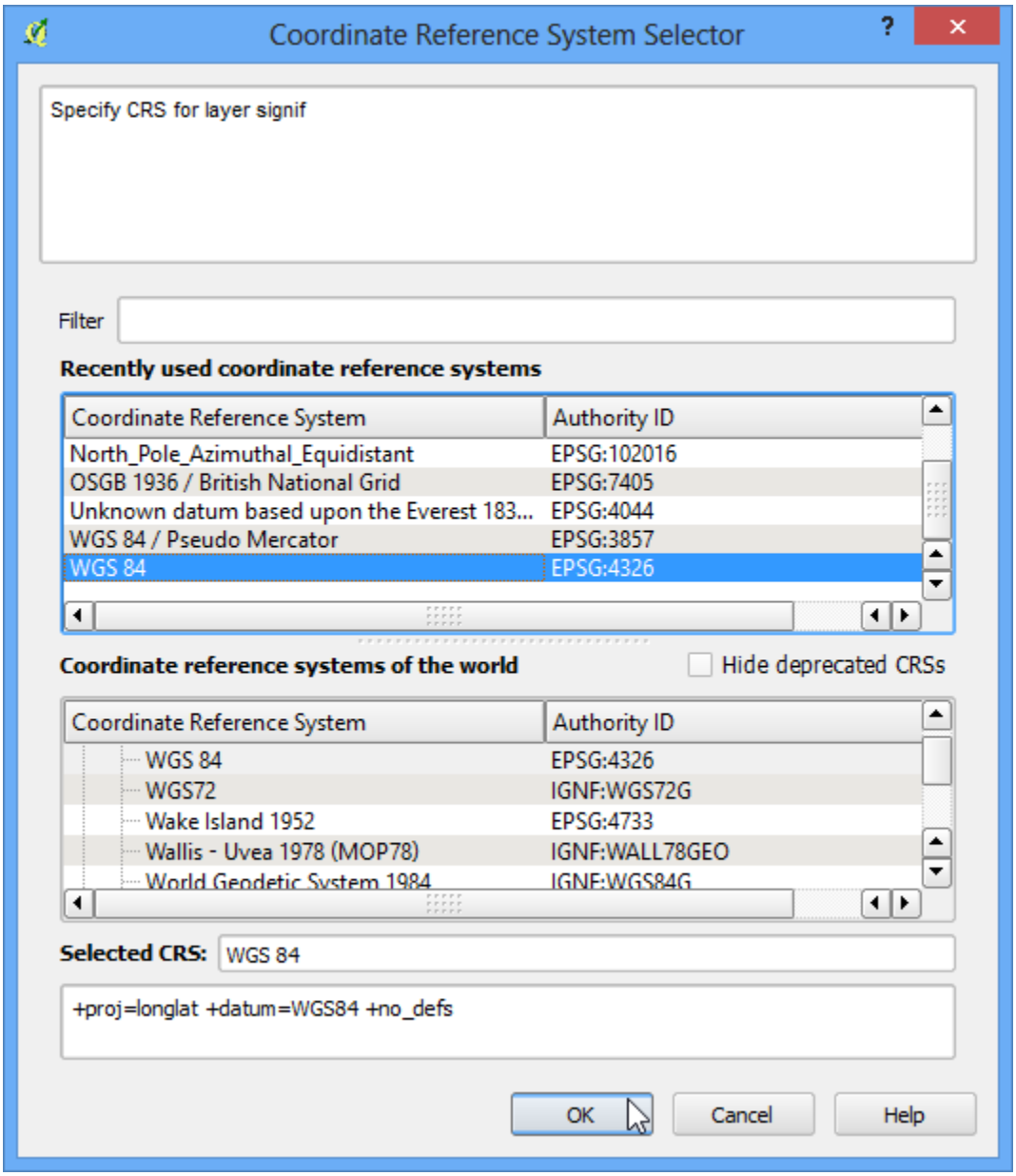

2. □□□ □□□ □□□ □□ *tab-delimited file*□□□ □□ □□ :guilabel:`File format`□ □ :guilabel:`Tab`□ □□□□□. X□□ :guilabel:`X field`□ Y□□ :guilabel:`Y field`□ □□□□□ □□□□□. :guilabel:`OK`□ □□□□□.

## *Note*

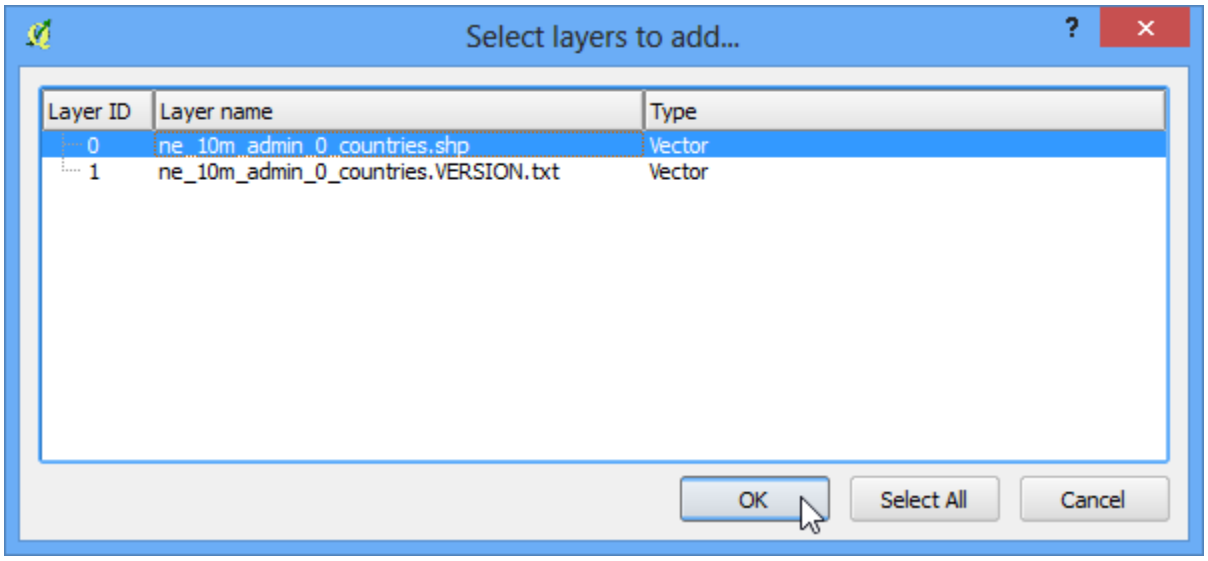
□□□ QGIS□ □□□□□ □□□□□ □□□□□□ □ □□□□□. □□□□ □□□ □□□□ □□□ □ □□ □□□□□□ □□ □□□□. □ □□□□□ □□□ □□□ □ □□□□.



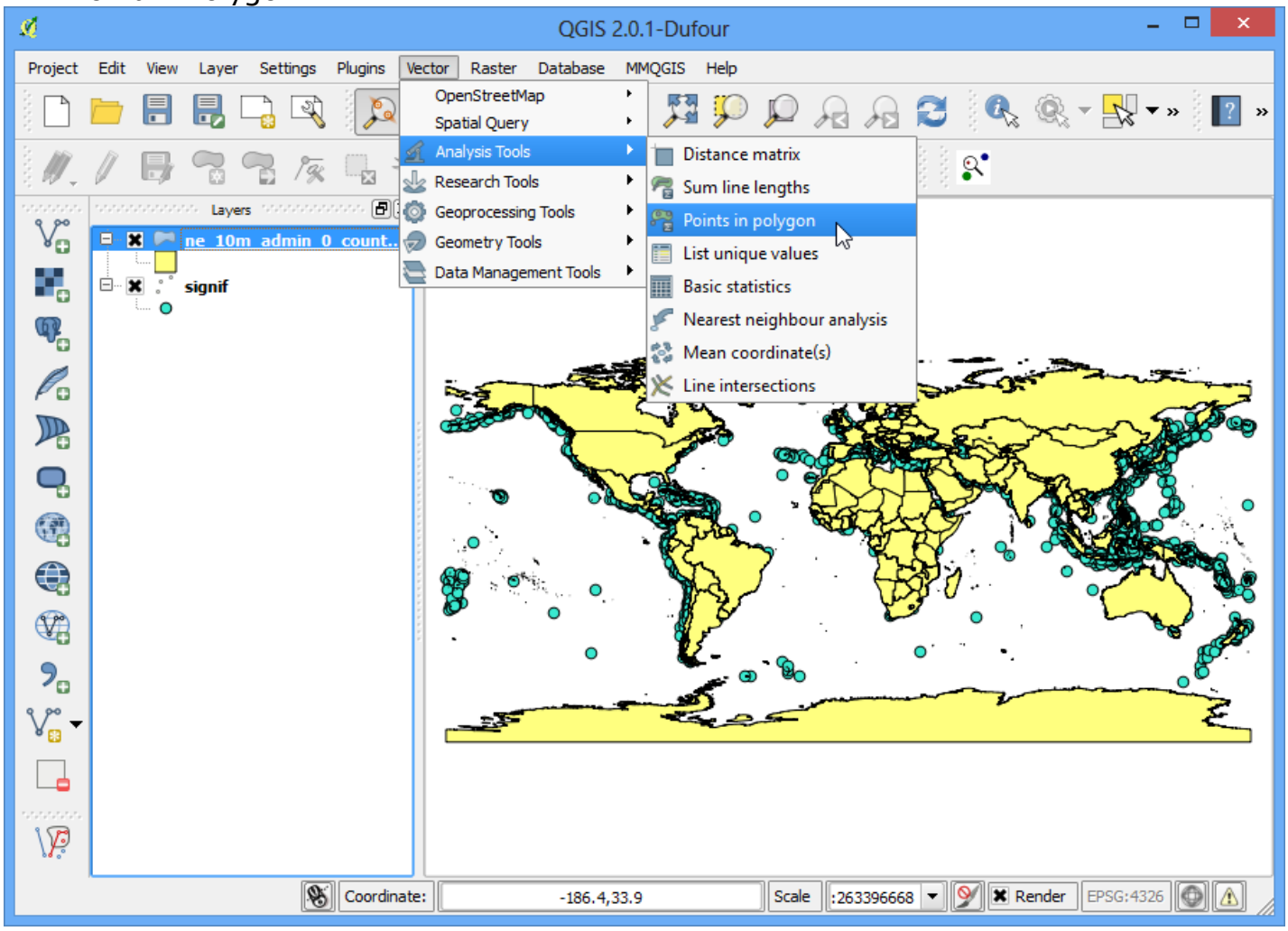

3. □□ □□□□□ □□/□□ □□□ □□□□ □□□□□ Coordinate Reference System Selector □□□□□□□ □□□□ :guilabel:`WGS 84 EPSG:436`□ □□□□□.




4. The earthquake point layer would now be loaded and displayed in QGIS. Let's also open the Countries layer. Go to Layer ‣ Add Vector Layer. Browse to the downloaded ***ne_10m_admin_0_countries.zip*** file and click Open. Select the ***ne_10m_admin_0_countries.shp*** as the layer in the Select layers to add... dialog.




5. □□ □□ --> □□ □□ --> □□□□ □ :menuselection:`Vector --> Analysis Tools --> Point in Polygon`□ □□□□□.




6. □□□□□ □□□ □□□□ □□□ □□□□ □□ □□□□□. □□ □□□□ ``earthquake_per_coutry.shp``□ □□□□ :guilabel:`OK`□ □□□□□.

***Note***

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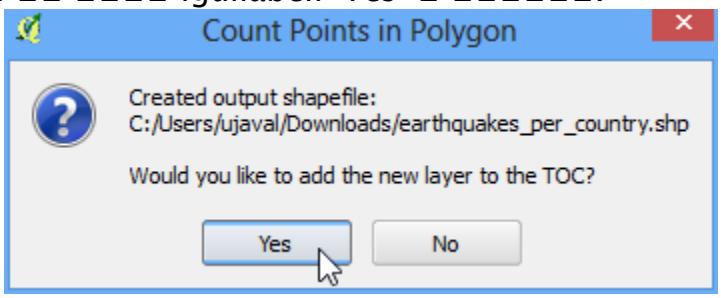
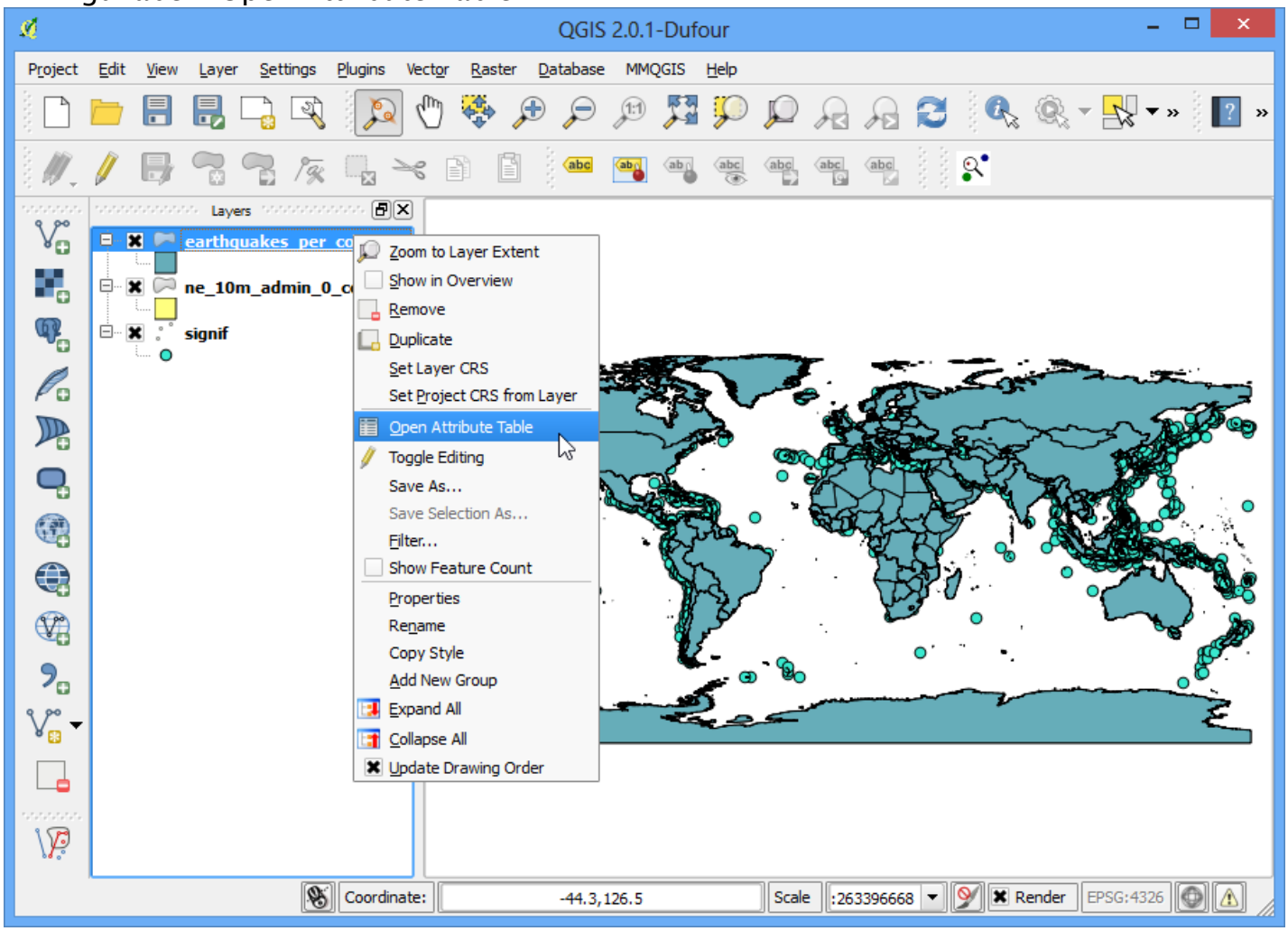
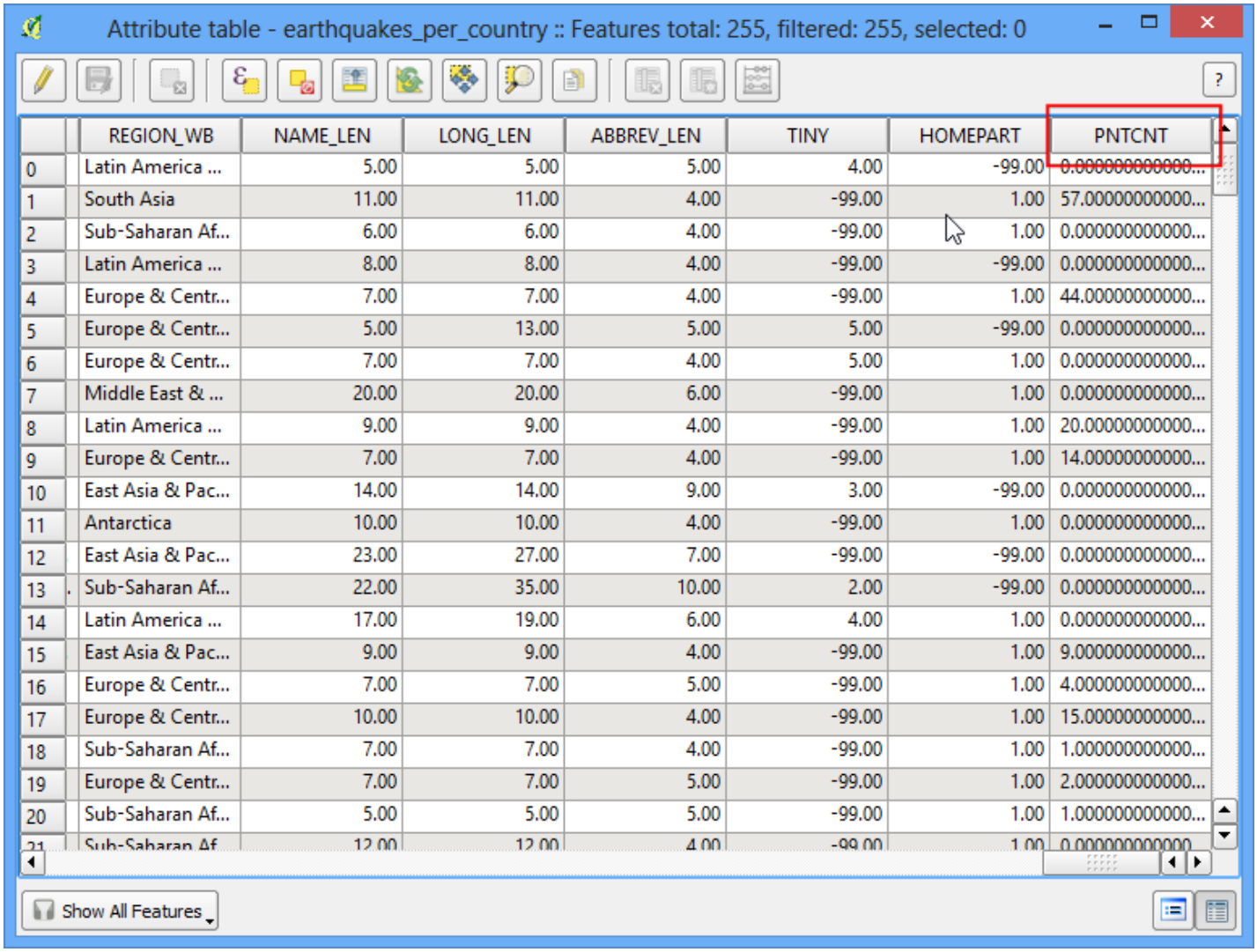
7. □□□□ TOC□ □□□ □□ □□□□ :guilabel:`Yes`□ □□□□□□.




8. TOC□ □□□ □□□ □□□□ □□ □□□ □□□□. □□□□ □□□□□□ □□ □□□□ □□ □□□□□ □□ :guilabel:`Open Attribute Table`□ □□□□□.

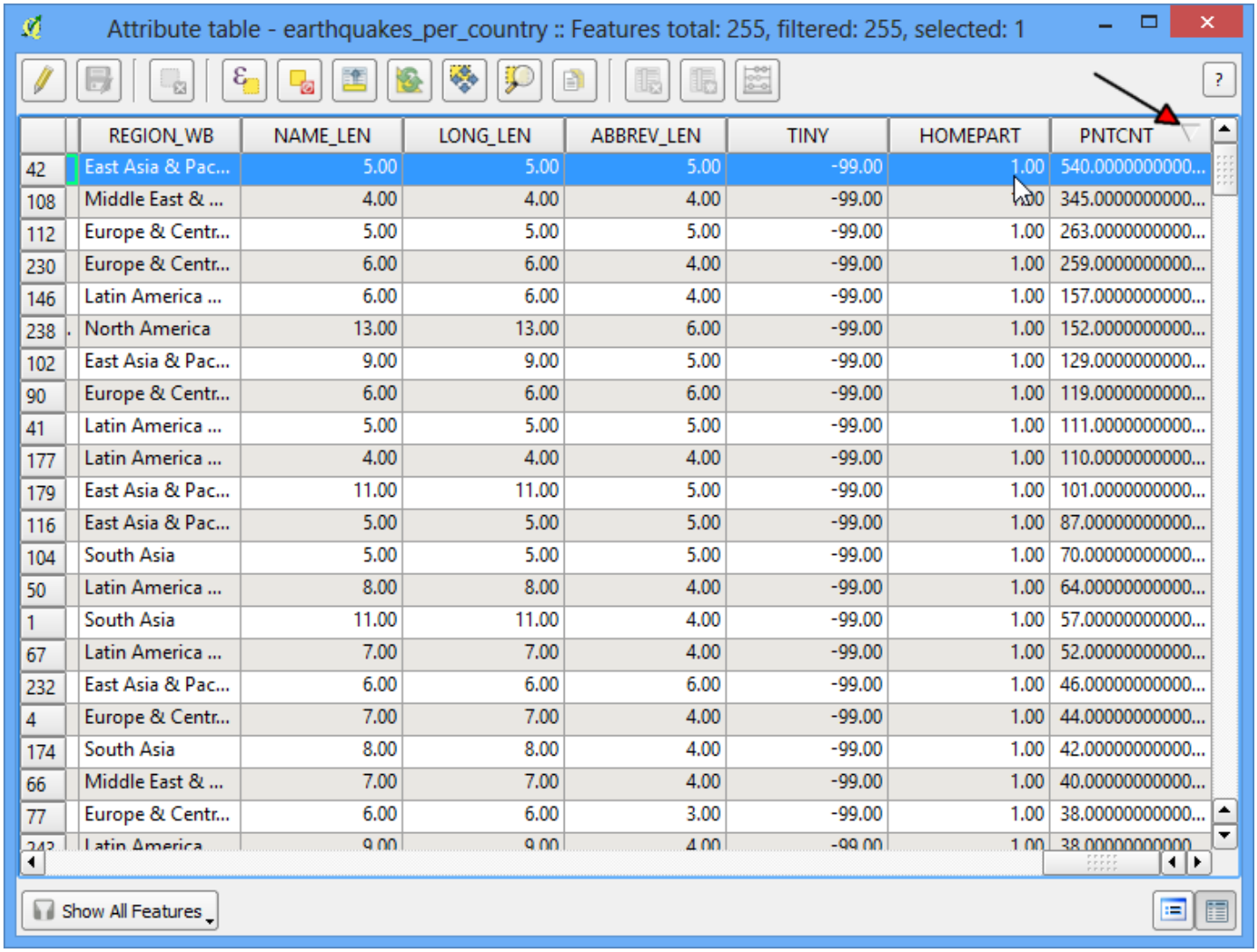



9. □□ □□□□□ ``PNTCNT``□□ □□□ □□□ □□□□ □□□□ □□□. □□□ □ □□□□□ □□□ □□□□□□□ □□ □□□ □□□ □□□□.



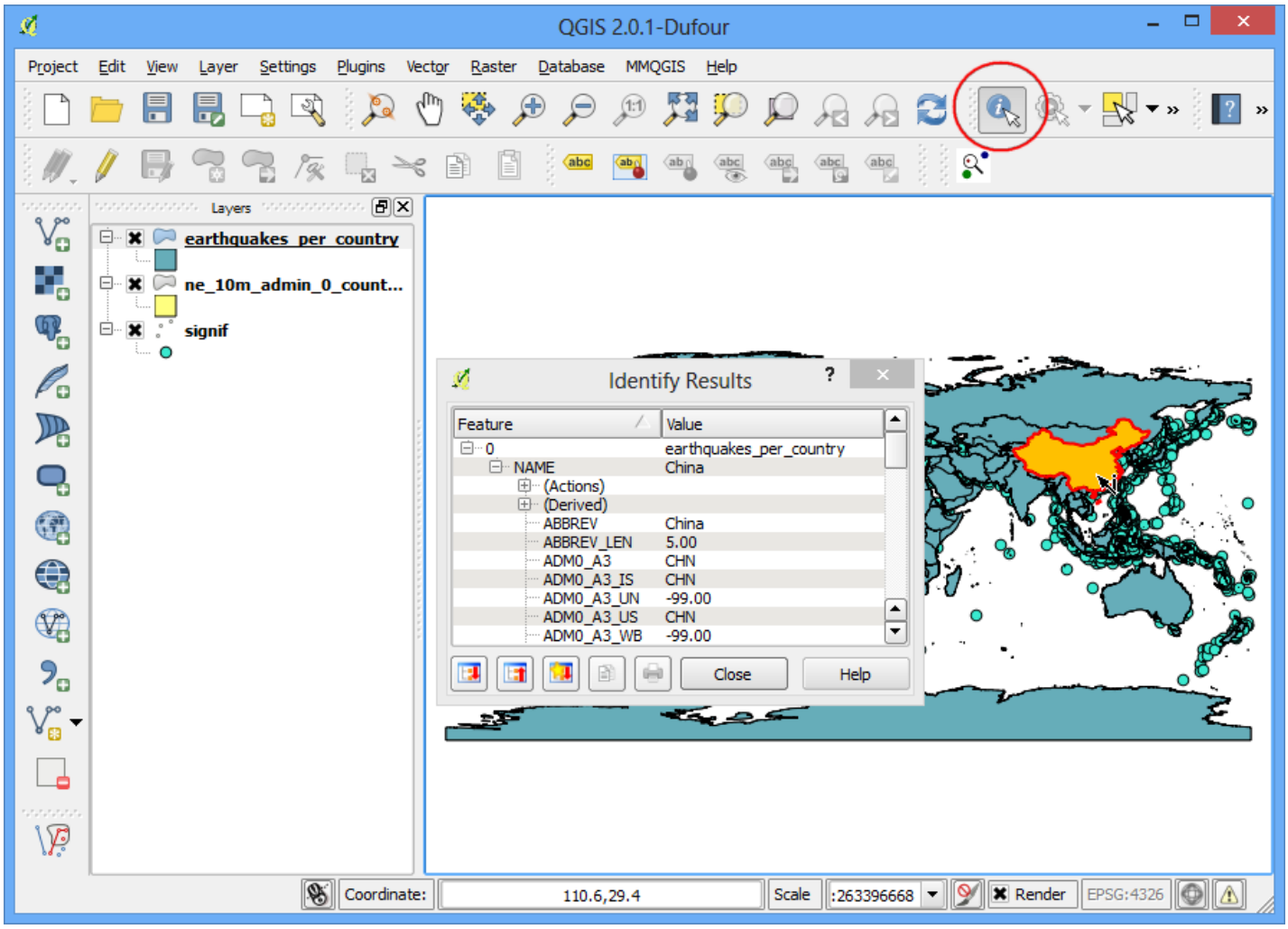

| | REGION_WB | NAME_LEN | LONG_LEN | ABBREV_LEN | TINY | HOMEPART | PNTCNT |
|---|---|---|---|---|---|---|---|
| 0 | Latin America ... | 5.00 | 5.00 | 5.00 | 4.00 | -99.00 | 0.000000000000... |
| 1 | South Asia | 11.00 | 11.00 | 4.00 | -99.00 | 1.00 | 57.000000000000... |
| 2 | Sub-Saharan Af... | 6.00 | 6.00 | 4.00 | -99.00 | 1.00 | 0.000000000000... |
| 3 | Latin America ... | 8.00 | 8.00 | 4.00 | -99.00 | -99.00 | 0.000000000000... |
| 4 | Europe & Centr... | 7.00 | 7.00 | 4.00 | -99.00 | 1.00 | 44.000000000000... |
| 5 | Europe & Centr... | 5.00 | 13.00 | 5.00 | 5.00 | -99.00 | 0.000000000000... |
| 6 | Europe & Centr... | 7.00 | 7.00 | 4.00 | 5.00 | 1.00 | 0.000000000000... |
| 7 | Middle East & ... | 20.00 | 20.00 | 6.00 | -99.00 | 1.00 | 0.000000000000... |
| 8 | Latin America ... | 9.00 | 9.00 | 4.00 | -99.00 | 1.00 | 20.000000000000... |
| 9 | Europe & Centr... | 7.00 | 7.00 | 4.00 | -99.00 | 1.00 | 14.000000000000... |
| 10 | East Asia & Pac... | 14.00 | 14.00 | 9.00 | 3.00 | -99.00 | 0.000000000000... |
| 11 | Antarctica | 10.00 | 10.00 | 4.00 | -99.00 | 1.00 | 0.000000000000... |
| 12 | East Asia & Pac... | 23.00 | 27.00 | 7.00 | -99.00 | -99.00 | 0.000000000000... |
| 13 | Sub-Saharan Af... | 22.00 | 35.00 | 10.00 | 2.00 | -99.00 | 0.000000000000... |
| 14 | Latin America ... | 17.00 | 19.00 | 6.00 | 4.00 | 1.00 | 0.000000000000... |
| 15 | East Asia & Pac... | 9.00 | 9.00 | 4.00 | -99.00 | 1.00 | 9.000000000000... |
| 16 | Europe & Centr... | 7.00 | 7.00 | 5.00 | -99.00 | 1.00 | 4.000000000000... |
| 17 | Europe & Centr... | 10.00 | 10.00 | 4.00 | -99.00 | 1.00 | 15.000000000000... |
| 18 | Sub-Saharan Af... | 7.00 | 7.00 | 4.00 | -99.00 | 1.00 | 1.000000000000... |
| 19 | Europe & Centr... | 7.00 | 7.00 | 5.00 | -99.00 | 1.00 | 2.000000000000... |
| 20 | Sub-Saharan Af... | 5.00 | 5.00 | 5.00 | -99.00 | 1.00 | 1.000000000000... |
| 21 | Sub-Saharan Af... | 12.00 | 12.00 | 4.00 | -99.00 | 1.00 | 0.000000000000... |

10. □□ □□ □□ ``PNTCNT``□□□ □□□□ □□ □□ □□ □□□ □□ □□□. □□□□□□ □□□□ □□ ``PNTCNT``□□ 2□ □□□□□. □□□ □□□□ □□□ □□□ □□ □□□□ □□ □□□□ □□□□.




| | REGION_WB | NAME_LEN | LONG_LEN | ABBREV_LEN | TINY | HOMEPART | PNTCNT |
|---|---|---|---|---|---|---|---|
| 42 | East Asia & Pac... | 5.00 | 5.00 | 5.00 | -99.00 | 1.00 | 540.0000000000... |
| 108 | Middle East & ... | 4.00 | 4.00 | 4.00 | -99.00 | 1.00 | 345.0000000000... |
| 112 | Europe & Centr... | 5.00 | 5.00 | 5.00 | -99.00 | 1.00 | 263.0000000000... |
| 230 | Europe & Centr... | 6.00 | 6.00 | 4.00 | -99.00 | 1.00 | 259.0000000000... |
| 146 | Latin America ... | 6.00 | 6.00 | 4.00 | -99.00 | 1.00 | 157.0000000000... |
| 238 | North America | 13.00 | 13.00 | 6.00 | -99.00 | 1.00 | 152.0000000000... |
| 102 | East Asia & Pac... | 9.00 | 9.00 | 5.00 | -99.00 | 1.00 | 129.0000000000... |
| 90 | Europe & Centr... | 6.00 | 6.00 | 6.00 | -99.00 | 1.00 | 119.0000000000... |
| 41 | Latin America ... | 5.00 | 5.00 | 5.00 | -99.00 | 1.00 | 111.0000000000... |
| 177 | Latin America ... | 4.00 | 4.00 | 4.00 | -99.00 | 1.00 | 110.0000000000... |
| 179 | East Asia & Pac... | 11.00 | 11.00 | 5.00 | -99.00 | 1.00 | 101.0000000000... |
| 116 | East Asia & Pac... | 5.00 | 5.00 | 5.00 | -99.00 | 1.00 | 87.0000000000... |
| 104 | South Asia | 5.00 | 5.00 | 5.00 | -99.00 | 1.00 | 70.0000000000... |
| 50 | Latin America ... | 8.00 | 8.00 | 4.00 | -99.00 | 1.00 | 64.0000000000... |
| 1 | South Asia | 11.00 | 11.00 | 4.00 | -99.00 | 1.00 | 57.0000000000... |
| 67 | Latin America ... | 7.00 | 7.00 | 4.00 | -99.00 | 1.00 | 52.0000000000... |
| 232 | East Asia & Pac... | 6.00 | 6.00 | 6.00 | -99.00 | 1.00 | 46.0000000000... |
| 4 | Europe & Centr... | 7.00 | 7.00 | 4.00 | -99.00 | 1.00 | 44.0000000000... |
| 174 | South Asia | 8.00 | 8.00 | 4.00 | -99.00 | 1.00 | 42.0000000000... |
| 66 | Middle East & ... | 7.00 | 7.00 | 4.00 | -99.00 | 1.00 | 40.0000000000... |
| 77 | Europe & Centr... | 6.00 | 6.00 | 3.00 | -99.00 | 1.00 | 38.0000000000... |
| 243 | Latin America | 9.00 | 9.00 | 4.00 | -99.00 | 1.00 | 38.0000000000 |

11. QGIS □□□ □□□□□ □ □□□ □□□□□ □□ □□□ □□ □□□□□. □□□ □□□□□□□ □□ □□ □□□ □□□ □□ □□□ □□□□□. □□ □□ :guilabel:`Identify`□□ □□□□ □□□□ □□□□□. □□□ □□□□□ □□ □□ □□□ □□ **China**□□ □ □ □□□□.


QGIS 2.0.1-Dufour
Project Edit View Layer Settings Plugins Vector Raster Database MMQGIS Help
Layers
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