

QGIS Application - Feature request #16290

Processing: warn user when units are in degrees

2017-03-05 09:58 PM - Paolo Cavallini

| | |
|---|-------------------------------------|
| Status: Closed | |
| Priority: Normal | |
| Assignee: | |
| Category: Processing/Core | |
| Pull Request or Patch supplied: | Resolution: |
| Easy fix?: No | Copied to github as #: 24200 |
| Description | |
| <p>It is very easy to get wrong when doing analyses if map units are in degrees (one common case: buffer > user type 100, meaning meters, and ends up with huge balloons covering the whole world).</p> <p>To prevent this, CRS units could be used in the analysis dialog, maybe even in red/italic/bold when these are degrees.</p> <p>See https://lists.osgeo.org/pipermail/qgis-developer/2017-March/047372.html for a discussion on this.</p> | |

Associated revisions

Revision 6a262566 - 2018-04-20 10:27 AM - Nyal Dawson

[processing] Add dedicated "distance" parameter

This is a subclass of QgsProcessingParameterNumber, but specifically for numeric parameters which represent distances. It is linked to a parent parameter, from which the distance unit will be determined, and is shown using a dedicated distance widget within the processing parameters panel. This widget shows the distance unit.

This avoids the confusion when running algorithms which use distances where the unit depends on a layer or CRS parameter - e.g. the distance parameter in the buffer algorithm gives the distance in layer units... so now we can show those units directly within the dialog. Hopefully this leads to less user confusion and accidental "1000 degree buffers"!

Additionally - if the unit is in degrees, a small warning icon is shown next to the parameter. The tooltip for this icon advises users to reproject data into a suitable projected local coordinate system.

Initially implemented for the native buffer and single sided buffer algorithm only - but more will be added.

Fixes #16290

History

#1 - 2017-03-05 09:59 PM - Paolo Cavallini

- Subject changed from *Processing: warnr user when units are in degrees* to *Processing: warn user when units are in degrees*

#2 - 2017-05-01 12:44 AM - Giovanni Manghi

- *Easy fix?* set to *No*

#3 - 2018-02-24 03:25 PM - Paolo Cavallini

- *Assignee deleted (Victor Olaya)*

- *Description updated*

Even more of a problem now that reprojection is done transparently to the user.

#4 - 2018-04-20 10:26 AM - Nyal Dawson

- *% Done changed from 0 to 100*

- *Status changed from Open to Closed*

Applied in changeset commit:qgis|6a2625664e341f676808fb39fa40347d843aa955.