

Targeted skills

By the end of this module, you will know how to:

- generate a grid with custom extent and resolution
- clip a grid with a polygon layer
- aggregate spatially an underlying point layers and produce a thematic map (but you know it already!)

Data

- Romania admin layer
- ASF outbreaks

Exercise outline & memos

In this module, given our previous analysis, we would like to perform a fine-grained analysis of the outbreak situation at a higher resolution (large scale) in the south west of Romania, especially in these counties:

- Ialomița
- Constanța
- Călărași
- Brăila
- Tulcea

1. Data preparation

Your tasks:

1. Select counties of interest and save it as new layer
2. Select ASF outbreaks data covered by this new area of interest
3. Save it as a new layer

Once, this is done, we would like to create a new layer with one single feature/polygon representing the contour of the area formed by 5 counties selected. This transformation is called **dissolving**.

[In QGIS Processing Toolbox]

Write "dissolve" in the search box

and double-click on Vector geometry Dissolve

Choose the layer of interest and "Run"

Save it as new layer

By now, you should have three new layers (see screenshot below):

- the ASF outbreaks for these 5 counties
- the 5 counties selected as a new layer
- a layer with one single feature representing the contour of these 5 counties



2. Generate and clip a grid

Now, we would like to generate a grid of 5km resolution. To do so:

[In QGIS Processing Toolbox]

Write "grid" in the search box

and double-click on Vector creation Create grid

and reproduce the settings below:

And finally, let's **clip** (using region of interest as a contour to the newly created grid):

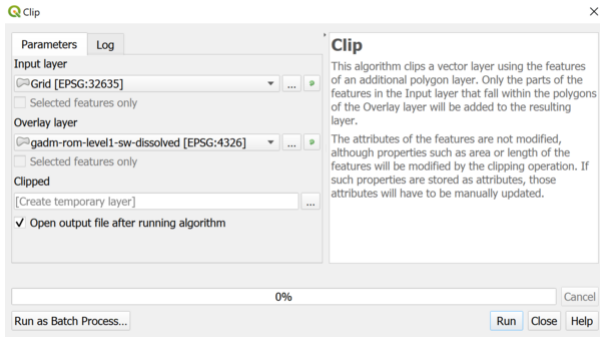
[In QGIS Processing Toolbox]

Write "clip" in the search box

double-click on Vector overlay Clip

reproduce the settings below

and save it as a new layer



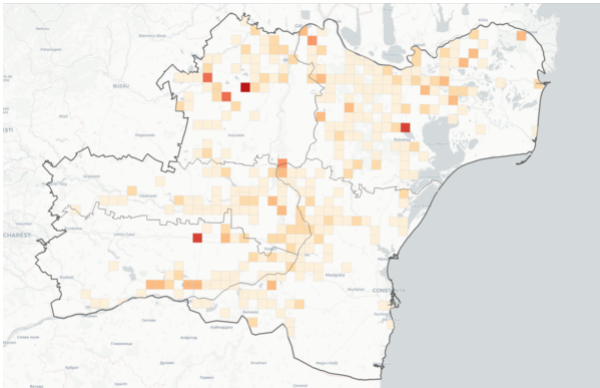
3. Thematic mapping of sum of ASF cases

Now it is your turn. By now, based on modules covered these last 2 days, you should be able to:

- aggregate the nb of cases of the ASF outbreaks dataset into each individual grid;
- produce a thematic map of the sum of number of cases in the gridded layer.

YOUR TURN ...

You could come up with a thematic analysis similar to the one below:



We will see in a later module, how to produce a map publication ready including legend, north arrow, titles, ...