

Quantitative Textural Analysis (Under construction)

PETROG supports Estimation Textural Analysis. It has always been the goal that quantitative textural analysis would eventually be supported, and the first step towards this is point-counted grain size data collection.

Grain size may be measured by clicking on either end of a grain (both major and minor axis measurements will follow shortly), either (a) concurrently with quantitative compositional analysis (point-counting) or (b) separately, if just grain size data is required.

Grain Size Concurrently with Point Counting Compositional

The workflow currently implemented, for evaluation and feedback, is that the grain size is specified by clicking on the grain in the saved image view; i.e. you must first click the button "grab image" in the quantitative composition window. This is as opposed to clicking in the "live" image. This adds a single click (of the "grab image" button) but gives more options for later additions without significantly changing the workflow. For example, we could relatively simply introduce a "lasso" feature (c.f. Photoshop), whereby the image outline could be specified with a minimal number of clicks, more easily on the static image than on the live image.

We are looking for feedback on workflow.

Separate Grain Size Measurements

The main menu

Data Entry | Texture - Quantitative

Allows grain measurements to be collected by clicking on each grain within a field of view, and then moving the field of view. This can be done as many times as the user wishes.

Reviewing and Editing Grain Size

Data Edit | Texture - Quantitative

Shows a list of each grain with its position on the slide and the grain size measurement recorded, with basic grain size statistics and a histogram. We have not yet incorporated the additional information on grain type which is available when the data have been collected concurrently with point counting; i.e. when the two analyses are undertaken concurrently, the grain type is known as well as the size.

Options potentially available include a plot of just the grain size information for specific grain types detrital grains, or of all grains with each type of grain shown in a different colour/symbol combination.