

Front Advance Histogram user guide



Application for drawing histograms and cumulative histograms of events count and seismic energy for selected bins, the width of which corresponds to a constant value of the mining front advance. Calculations are performed from the beginning of the excavation along the axis of the excavation.

open in IS-EPOS PLATFORM

REFERENCES

CATEGORY Visualizations

KEYWORDS Episode-oriented graphics, Production data visualization

CITATION Please acknowledge use of this application in your work: IS-EPOS. (2015). *Front Advance Histograms* [Web application]. Retrieved from <https://tcs.ah-epos.eu/>

Step by Step

The data needed for this application comes from the "AH Episodes" and in particular 'Bobrek Mine seismic catalog' and 'Bobrek Mine mining front advance', as depicted in Figure 1. Any other, previously filtered, catalog can be introduced as well. In addition, the front window size is requested to be entered by the user (in meters).

The screenshot shows the 'Front Advance histograms' application interface. At the top, there is a header with the title 'Front Advance histograms' and an 'ACTIONS' button. Below the header, a file list shows 'FrontAdvanceHistograms' with a description: 'Application for drawing histograms and cumulative histograms of events c...' and an 'EXPAND' link. The main section is titled 'INPUTS' and contains three input fields: 'Catalog' (required 1 file) with the value 'BOBREK_catalog.mat', 'Mining Front Advance' (required 1 file) with the value 'GDF_BOBREK_mining_front_advance_EPSG4326.mat', and a window size input field with the value '50.0'. Each file input field has 'CHANGE...' and 'CLEAR' buttons. At the bottom, there are 'CLEAR', 'SAVE', 'RUN' buttons, a cursor icon, and a checkbox for 'Enable autorun'. The status at the bottom is 'Status: New'.

Figure 1. Input for the visualization.

After running of the application is finished successfully the User sees two histograms ('events histogram' - above, 'energy histogram' - below) as shown in Figure 2. The User may select *Histogram type* between 'Histogram' (interval histogram) and 'Cumulative histogram' (red field in Figure 2). Zooming in/out histogram plotting is available for both events and energy charts. Options for linear/logarithmic scale of the x-axis and y-axis are available only for 'energy histogram'. The results are also available in numerical format.

OUTPUTS

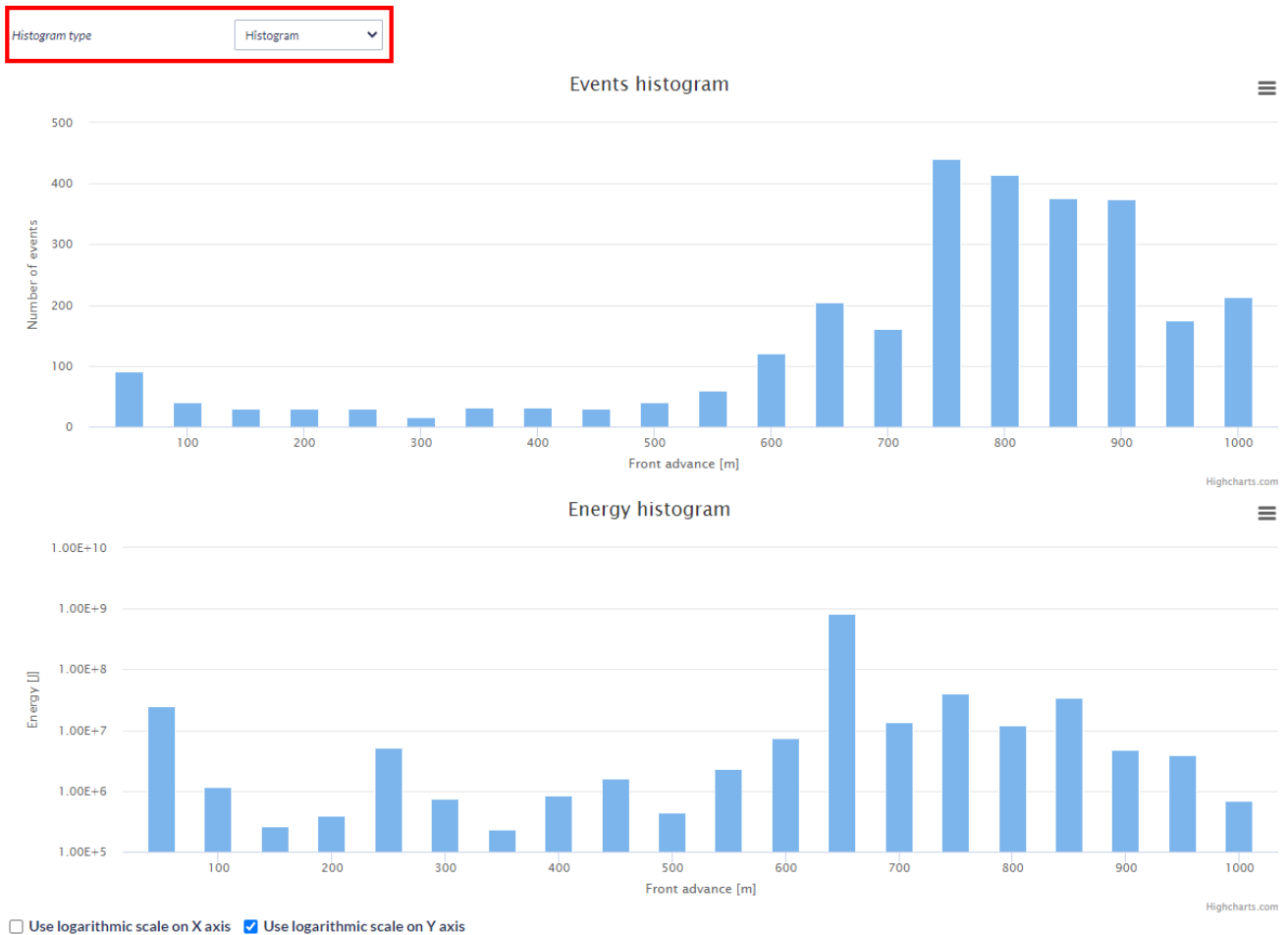


Figure 2. Output of the visualization.

[Back to top](#)

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