

GCDPlot

Version 0.4

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Abstract

GCDPlot is a user-friendly, extensible program for plotting geochemical discrimination diagrams. It was developed using the VBA language and runs on the Microsoft Excel 2000 or later. Besides basic plotting functions like discrimination diagram (including X-Y plot and triangular plot), the major advantage of the GCDPlot is its feasibility of editing existing diagrams and adding new diagrams according to user's needs in Microsoft Excel using the definition files for diagrams.

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INTRODUCTION

FREEWARE

GCDPlot is a free software.

Weifeng Ma and Xiaorui Wang developed the Discrimination diagram module and Config module of GCDPlot.

System Requirement

Windows 98/Me/2000/XP or later version.

Microsoft Excel 2000/XP/2003

Installation and uninstall

Installation:







- 1) Download the zip file (GCDPlot.zip), extract it to a directory or default folder.
- 2) Start Excel, and open Worksheet, select Tools/Add-Ins.

If GCDPlot.xla is not in the list of available Add-Ins, select browse to locate it.

Uninstall:

- 1) Start Excel, and open Worksheet;
- 2) Select the Tools/Add-Ins, and cancel the GCDPlot;
- 3) Delete the GCDPlot files.

Features

-  GCDPlot is a new VBA program for geochemical data plotting in Microsoft Excel.
-  Microsoft Excel spreadsheet data are used.
-  GCDPlot offers basic plotting functions like discrimination diagram (including X-Y plots and triangular plots).
-  The core function of GCDPlot is offering a visual tool that can edit existing diagrams and add new diagrams.
-  Graphs produced by GCDPlot are standard Microsoft Excel graphs that can be edited, modified, output, and printed under Microsoft Excel.
-  GCDPlot offers useful Excel templates (e.g., REE pattern and Spider diagram).

Discrimination diagrams

Step 1: Select discrimination diagram type

GCDPlot will add a toolbar and a button named "Discrimination" into Microsoft Excel. First, single click the "Discrimination" icon; then, select the type of diagrams from pop-upped dialog box. Then, click the "Next" button go to the data input dialog box.

Step 2: Add data

User can add one or more data series in the data input dialog box. There are two or three data input textboxes for each data series. Scatter diagrams need two groups of data: X-axis and Y-axis, and triangular diagrams require three groups of data. The textbox is an Excel "refedit" textbox that users can add data by using mouse selecting and dragging in a spreadsheet directly.

Step 3: Edit, output and print the diagram



After data selecting, click the "finish" or "OK" button to plot the diagram. The program can ignore unselected and problematic data. Users can use the functions of Excel to add additional data into graph.

Scatter and ternary chart

First, single click the "Discrimination" icon; second, select the "scatter and ternary" from "diagram categories" in dialog box; then, select "scatter and ternary chart" and add data into the data input dialog box; finally, select the "OK" button to plot the diagram.

Add, edit and delete discrimination diagrams

There are two means of adding new diagrams in GCDPlot:

-  Use the "Config" function of the GCDPlot.
 - First, single click the "Config" icon and a dialog box will display. Click the left "add" icon, a new diagram category will be added and click the right "add" icon, a new type of diagram will be added.
 - Second, select the diagram type, such as X-Y scatter.
 - Then, define diagram, prompting four options: "General", "X-Y Axis", "Classify lines", and "Labels", where appropriate information should be input.
 - After completed, click the "Save" icon, the added information will be saved as a Windows standard .INI format file.
 - Finally, click "OK" icon, the diagram will be added in the GCDPlot successfully.
-  Edit the configuration file in a text editor.
 - First, locate the GCDPlot folder and open the "dig" child folder.
 - Second, create a new text file and change the filename extension ".txt" to ".ini".
 - Then, add the detailed diagram information in .INI format file.

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- Finally, name new added diagram in the “GeoChemistryChart.ini” file.

Other tools

You can use the “Chart template” to plot “REE” and “Spider” diagrams after coping your data to the corresponding charts.

SUPPORT

Contact us

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