

Software Installation and Registration

Installation of GeoAccessPro is easy... use the Start | Run command or Windows Explorer to navigate to and run the Setup.exe program in the Setup directory on the installation CD. Follow the instructions on screen and setup will do the rest. You can make a desktop shortcut to the file GeoAccessPro.exe if you want quick access to the program. The system will ask for a Validation Code after installation – this will be provided separately with your installation CD.

User Guides

This Overview provides a Guide to the things you need to know to quickly get the most out of GeoAccessPro. It deals with general information regarding loading and saving data, using filters, using colour files etc. There are three separate Function Guides that describe the specific functions found in GeoAccessPro - the Statistics User Guide, the Geotech User Guide and the MultiPlot User Guide. PDF files are installed into Documentation directory in the GeoAccessPro program directory.

Getting Started

The Setup program copies some example data, colour, symbol and filter files to the program directory in which GeoAccessPro is installed (typically 'C:\Program Files\GeoAccess Professional'. These can be used to get going and experiment with the program. Online help is accessed by using the F1 key or from the Help menu.

File Management

GeoAccessPro keeps track separately of the directories in which different types of files are kept, so it is advantageous to make different directories to store colour, symbol, filter files etc. Then, when using different data directories, you can easily find the other file types you need.

GeoAccess Professional – Getting Started Guide

This **Overview Guide** tells you how to accomplish various general tasks and contains the following sections:

- How To Load Data
- How To Use Filters
- How To Save Data
- How To View and Edit Data
- How To Use The Main Dialog Box
- How To Use Grouping and Overlays
- How To Use Colour Files
- How To Use Symbol Files
- How To Use The Clipboard and Save Bitmaps
- How To Get Hardcopy on a Printer or Plotter

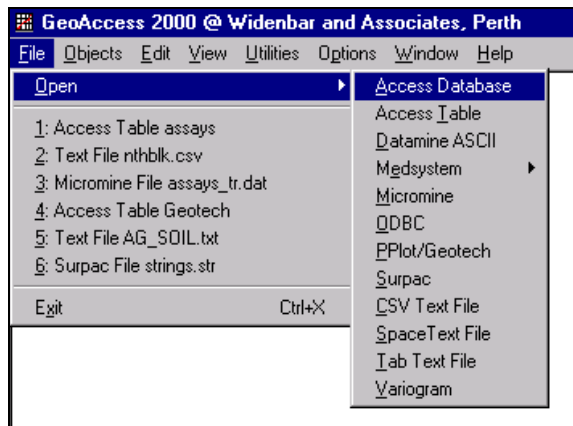
The separate **Function Guides** contain information on the functions in GeoAccessPro.

- Statistics, Grouped Statistics and Box Plots (Statistics User Guide)
- Probability Plots and Histograms (Statistics User Guide)
- Correlation Analysis (Statistics User Guide)
- XY and XYZ Plots, and Contouring (MultiPlot User Guide)
- Variograms (Statistics User Guide)
- Geotech Oriented Core Transformation (Geotech User Guide)
- Geotech StereoPlots (Geotech User Guide)
- Geotech Sections (Geotech User Guide)
- Geotech Plans (Geotech User Guide)

How To Load Data

Prior to loading data, you need to open a file or database using the File Open command or Recent Files List.

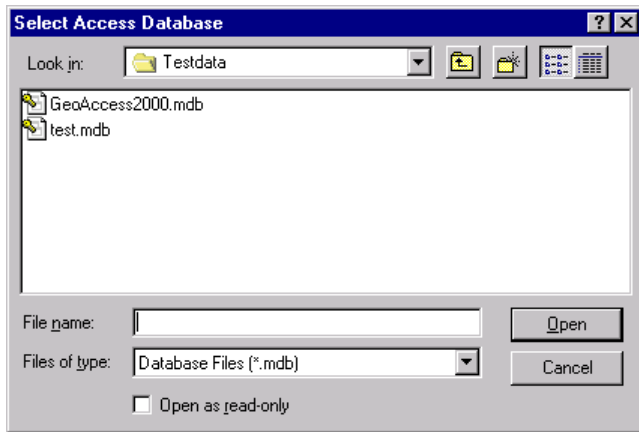
The File Menu



The File menu provides access to commands that enable you to open files of various sorts. It also displays a list of the last six files opened; these files can be re-opened simply by selecting their name. The menu can also be accessed by using the right mouse button on the GeoAccessPro Main Form.

The types of data that can be opened are shown on the menu.

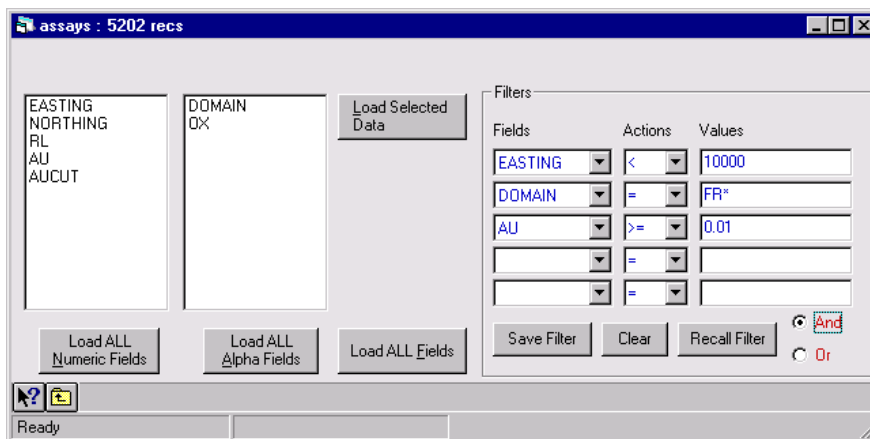
Selecting any data type will show a File Open dialog box, as shown at right.



On selecting a file, the **Data Selection Dialog Box** will be shown (see Page 5).

If an Access database is selected, a dialog box will open allowing you to select any of the tables or queries in the database.

The Data Selection Dialog Box



At this point GeoAccessPro has simply looked at the file to determine what variables it contains, and will show a screen similar to the one above.

The dialog has two list boxes on the left that show the numeric and alpha fields or variables found in the data set. Variables can be selected from either or both list boxes using the left mouse button. In standard Windows fashion, using Ctrl-Left Mouse will add (or remove) selected variables, while Shift-Left Mouse will add all variables between the first and last selected. Buttons are also provided to select all numeric, all alpha, or all variables.

Once one of the Load buttons has been used the appropriate data is loaded into memory and the GeoAccessPro **Function Dialog Box** appears.

How To Use Filters

Filters allow you to selectively load part of a data set using numeric or alphanumeric conditions applied to any of the variables. You don't necessarily need to load the variables that are used in the filtering.

Prior to setting up filters for loading data, you need to open a file using the File Open command or Recent Files List. This will show the Data Selection Dialog Box, which includes a section for specifying filter conditions, as shown on the left.

This dialog has the following components: The **Fields** section displays drop down list boxes of the variables in the currently selected data file.

The **Actions** section shows list boxes of the available conditions that can be applied in filtering.

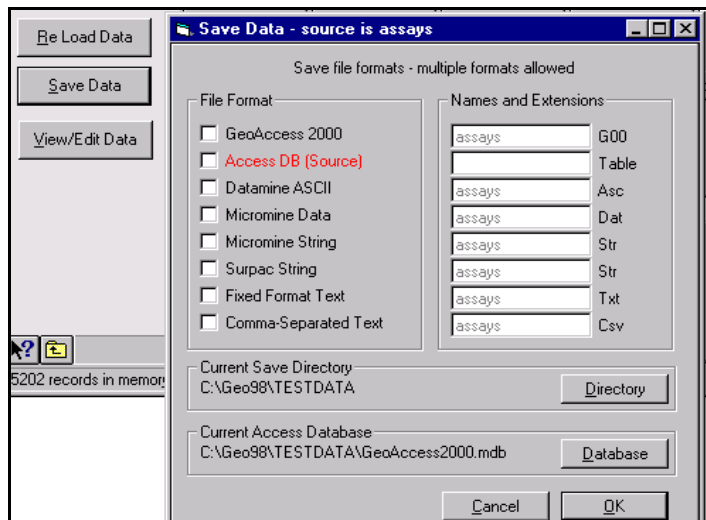
The **Values** section lets you enter numeric values or strings to use in filtering. If strings are used, the wildcards * and ? can be used to match all or single characters. For example FR* finds all occurrences starting with FR, while DD1?? will find entries with DD1 followed by any other two characters; for example, DD100 and DD11A will be found, but not DD1000.

The **And/Or** Section allows multiple conditions to be evaluated in combination (using And) or individually (using Or).

Buttons are available to **Clear** all filter conditions and to **Save** and **Recall** filters in files. GeoAccessPro remembers the directory location of filter files, so that all filter files can be conveniently kept in one location. Long filenames can be used, so meaningful names can be given to filter files. When you have specified the filter conditions, you can use the one of the various **Load...** buttons to actually load the data.

How To Save Data

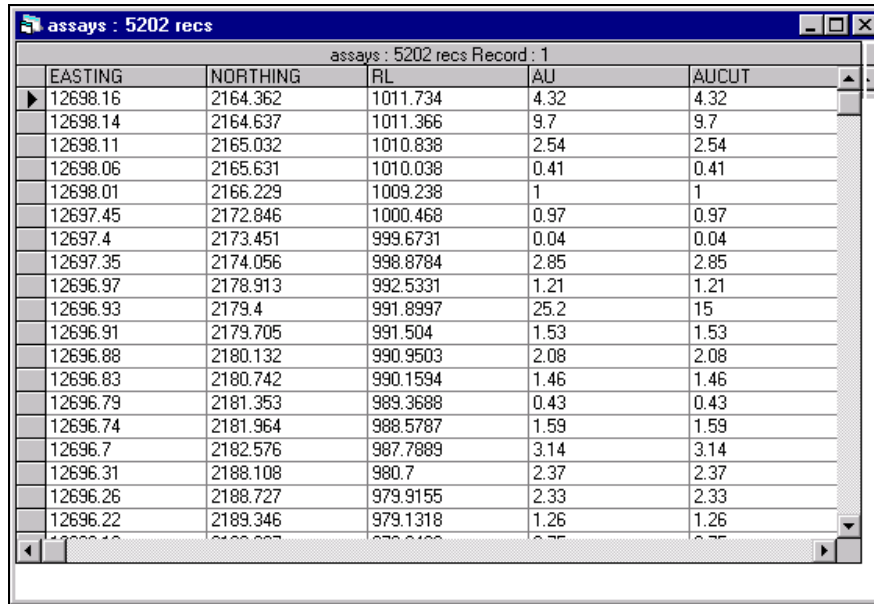
Once a data set has been loaded into memory, GeoAccessPro can be used to save this data in a variety of formats. It can be saved in the same format as loaded or in other formats, so that the system can be used for data translation. The **Save** option is accessed from the Function Dialog Box once data has been loaded.



Selecting the save option brings up the dialog box shown below. You can select one or more file save options, and change the names of files to save if required. To save as an Access Table, the Access database must already exist.

How to View and Edit Data

Once a data set has been loaded into memory, the data can be viewed and/or edited. The View option is accessed from the Function Dialog Box, and opens a screen similar to the one below.



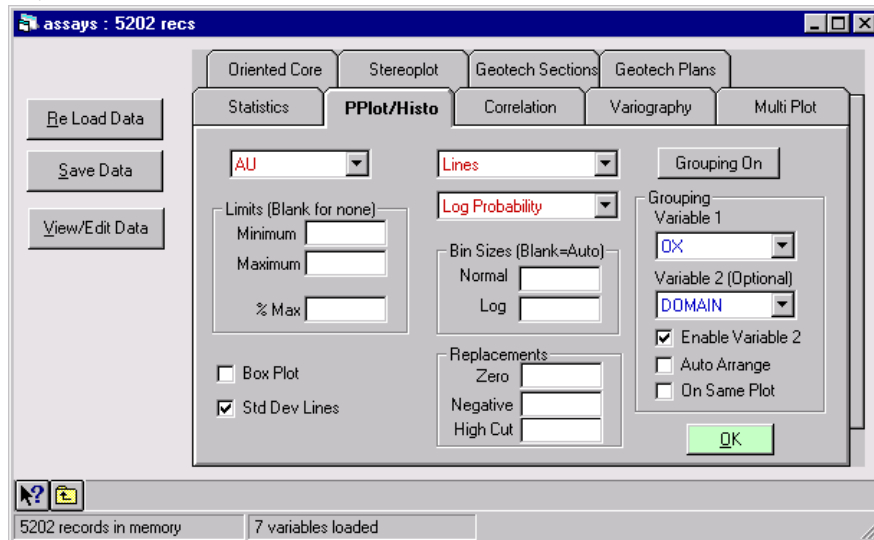
EASTING	NORTHING	RL	AU	AUCUT
12698.16	2164.362	1011.734	4.32	4.32
12698.14	2164.637	1011.366	9.7	9.7
12698.11	2165.032	1010.838	2.54	2.54
12698.06	2165.631	1010.038	0.41	0.41
12698.01	2166.229	1009.238	1	1
12697.45	2172.846	1000.468	0.97	0.97
12697.4	2173.451	999.6731	0.04	0.04
12697.35	2174.056	998.8784	2.85	2.85
12696.97	2178.913	992.5331	1.21	1.21
12696.93	2179.4	991.8997	25.2	15
12696.91	2179.705	991.504	1.53	1.53
12696.88	2180.132	990.9503	2.08	2.08
12696.83	2180.742	990.1594	1.46	1.46
12696.79	2181.353	989.3688	0.43	0.43
12696.74	2181.964	988.5787	1.59	1.59
12696.7	2182.576	987.7889	3.14	3.14
12696.31	2188.108	980.7	2.37	2.37
12696.26	2188.727	979.9155	2.33	2.33
12696.22	2189.346	979.1318	1.26	1.26

The Function Dialog Box

When data has been loaded into memory, the Function Dialog Box is shown. This is where all the functions available within GeoAccessPro can be accessed. The functions operate directly on the data which has been loaded into memory

You can, of course, load multiple files (of any type), and a new Function Dialog Box will open for each data set.

A typical screen is shown below.



The screenshot shows the 'assays : 5202 recs' window with the 'Function Dialog Box' open. The dialog has several tabs at the top: 'Oriented Core', 'Stereoplot', 'Geotech Sections', 'Geotech Plans', 'Statistics', 'PPlot/Histo', 'Correlation', 'Variography', and 'Multi Plot'. The 'PPlot/Histo' tab is selected. On the left, there are buttons for 'Re Load Data', 'Save Data', and 'View/Edit Data'. The main area contains various settings for the P-Plot/Histogram function, including a variable selector set to 'AU', a 'Lines' dropdown, and a 'Log Probability' dropdown. There are also input fields for 'Limits (Blank for none)' (Minimum, Maximum, % Max) and 'Bin Sizes (Blank=Auto)' (Normal, Log). A 'Grouping' section includes 'Grouping On', 'Variable 1' (OX), 'Variable 2 (Optional)' (DOMAIN), and checkboxes for 'Enable Variable 2', 'Auto Arrange', and 'On Same Plot'. A 'Replacements' section has input fields for 'Zero', 'Negative', and 'High Cut'. An 'OK' button is at the bottom right. At the bottom of the dialog, it shows '5202 records in memory' and '7 variables loaded'.

All of the modules of GeoAccessPro are accessible from this one screen, using the Tabs at the top of the Function Dialog Box.

The purpose of the Function Dialog Box is to let you control the parameters that will be used to run the functions within GeoAccessPro. In general, when you select one of the tabs after opening a file for the first time, the system will make some intelligent guesses about which fields you might want to use. For example, if you are doing a Geotech Section, it will look for fields called EAST, EASTING, X or something similar to use as the X or Easting coordinate values for the display. It will also fill in default values and options based on typical responses, or on your previous responses if you have used the function before.

It is usually possible to press the green OK button without entering anything at all. The function will run and display the results, usually in one or more graphics windows. It is possible to return to the Function Dialog Box at any time and either run the same function using different conditions or variables, or run a different function using the same data.

On all of the Tabs of the Main Dialog Box, any boxes that must be filled in are coloured **red**, whereas optional responses will either be blank initially or **blue** if filled.

After a data set has been loaded and one of the functions has been run, the parameters used for that function on that file are saved in the current directory (i.e. the directory from which the file was loaded). Then, the next time you use that function on that file, all the parameters previously used will be re-loaded as defaults.

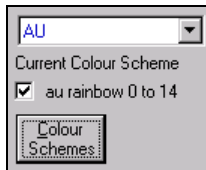
How To Use Grouping and Overlays

The concept of **grouping** allows you to pick one (or sometimes two) variables and have the system generate groups of data for all identical entries of that variable. The data does not have to be sorted, and you don't need to know the entries in the grouping field – the system will figure out what subsets to generate and open as many windows as necessary.

When a number of windows of the same type are displayed (eg two or more probability plot windows), you can drag one window onto another to make a composite display. This process can be repeated as required.

How To Use Colour Schemes

Colour schemes are used in various parts of GeoAccessPro to define colour coding of variables in graphics displays. They can be used in Geotech Plans and Sections, StereoPlot, MultiPlot and Correlation Analysis. Colour coding can be applied using ranges for numeric variables and character strings for alpha variables. For strings, the * and ? wildcards can be used.



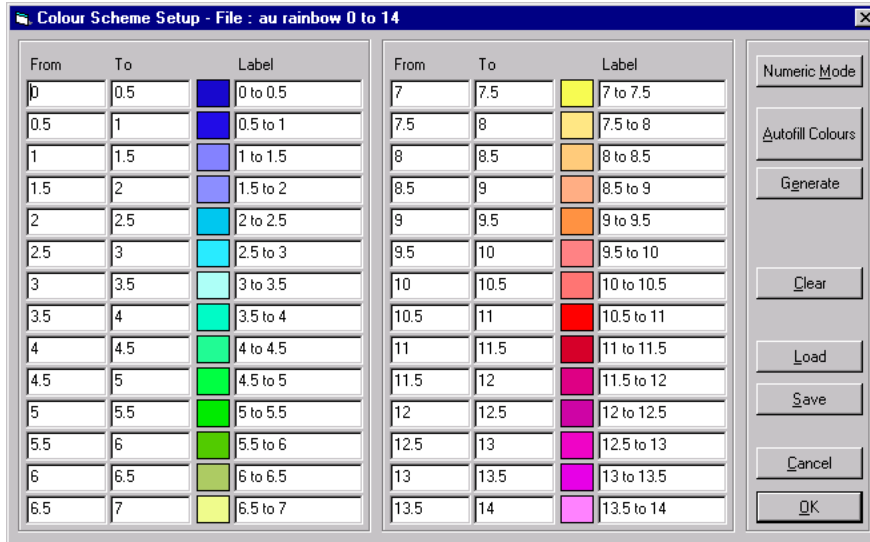
This is a typical colour scheme interface dialog. The dropdown list box with the entry 'AU' is the variable to be colour coded. The Current Colour Scheme being used is coming from a file called 'au rainbow 0 to 14', and the tick box shows that the colour coding option has been enabled. The **Colour Schemes** button is used to access the Colour Scheme Setup Dialog Box, which is shown on the right. Clicking on one of the colour boxes will bring up the standard Windows colour selection dialog, where the colour can be selected.

For numeric variables the **Generate** button allows you to generate a series of ranges automatically. The **Autofill Colours** button will automatically fill the colour boxes with a rainbow as shown on the right. The **Clear** button clears all entries and colours.

The **Numeric Mode** button switches between alpha and numeric mode.

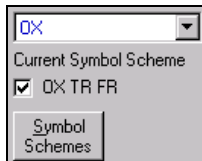
The **Load** button allows you to load a previously saved colour scheme, while the **Save** button saves the current colour definitions.

GeoAccessPro keeps track of the directory in which colour files are stored, so it is useful to keep all colour files in a common directory (called for example, 'ColourFiles').



How To Use Symbol Schemes

Symbol schemes are used in various parts of GeoAccessPro to define symbols to be used in coding of variables in graphics displays. They can be used in StereoPlot, MultiPlot and Correlation Analysis. A special set of geological symbols is available for Geotech Plans. Symbol coding can be applied using ranges for numeric variables and character strings for alpha variables. For strings, the * and ? wildcards can be used.



This is a typical symbol scheme interface dialog. The dropdown list box with the entry 'OX' is the variable to be symbol coded. The Current Symbol Scheme being used is coming from a scheme called 'OX TR FR', and the tick box shows that the symbol coding option has been enabled. The **Symbol Schemes** button is used to access the Symbol Scheme Setup Dialog Box, which is shown on the right.

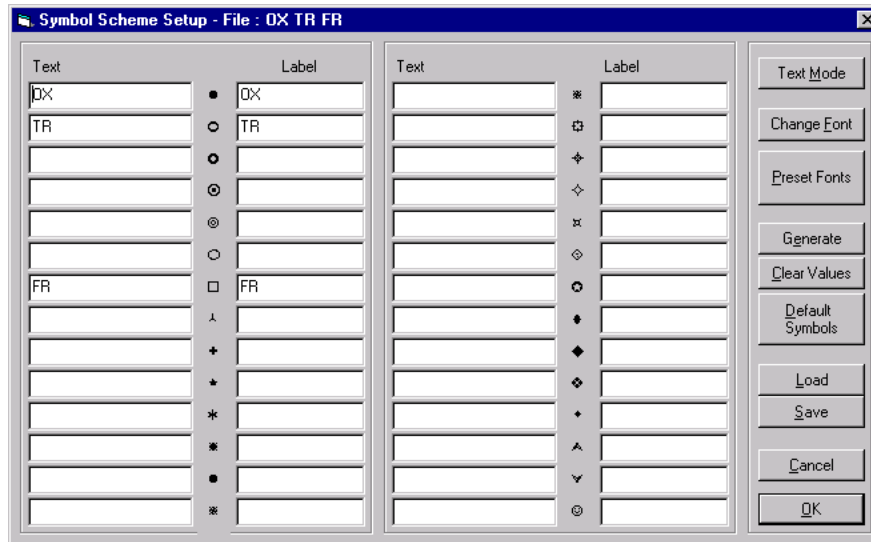
Symbol schemes use Windows True Type fonts to draw symbols, and two pre-defined fonts are available, which can be toggled using **Preset Fonts** button. Any font available on your system can be used via the **Change Font** button.

For numeric variables the **Generate** button allows you to generate a series of ranges automatically. The **Clear** button clears all entries and symbols.

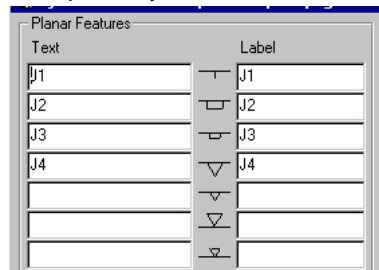
The **Numeric Mode** button switches between alpha and numeric mode.

The **Load** button allows you to load a previously saved symbol scheme, while the **Save** button saves the current symbol definitions.

GeoAccessPro keeps track of the directory in which symbol schemes are stored, so it is useful to keep all symbol files in a common directory (called for example, 'Symbol Files').



The special symbols available for the Geotech Plans function are shown below.



How To Use The Clipboard and Save Bitmaps



You can send a copy of any graphics output screen to the Windows clipboard at any time using this button. The image can then be pasted into Word or any other application using the Paste | Special command – paste as a bitmap for best results. Note that with all graphic screens you can add a title block to make the image more informative. Most functions have a Save Bitmap option on the popup menu which saves the image in a bitmap file. There is also a Save All Bitmaps option which generates bitmaps for all open windows.

How To Get Hardcopy on a Printer or Plotter



Hardcopy output can be sent from any graphics screen directly to any printer attached to your computer or network. A dialog screen allows you to specify paper size, orientation and title block information. More information can be found in the Functions User Guide.



Scaled plots can be sent to a Windows-compatible plotter for the Geotech Sections, Geotech Plans and MultiPlot functions. A dialog screen allows you to set up paper size, orientation, scale and title blocks. More information can be found in the Functions User Guide.

And a final note on **Toolbars** and **Menus**. After running any function, all further actions on the output can be performed either from toolbar buttons or from the menu that appears when you right click the active graph. Also, on the Main menu bar, the same menu options will be available and will apply to the currently active window.

Contacts for More Help and Information

Call Widenbar and Associates on (08) 9641 2877 or Fax on (08) 9641 2899

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