Getting Started with Geochemistry for ArcGIS

This *Getting Started with Geochemistry for ArcGIS* How-To Guide introduces you to the Geochemistry for ArcGIS system, an extension to Esri's ArcGIS™ software that simplifies the import, validation, analysis and presentation of geochemistry data within your GIS environment.

This *Getting Started with Geochemistry for ArcGIS* How-To Guide will demonstrate how to set up your Geosoft ID, install the Geochemistry for ArcGIS software, install your Geosoft License Key, display the Geochemistry for ArcGIS toolbars, import a Geosoft Map into you project, find and download spatial data using Geosoft's Seeker and save your ArcMap Map Document file in your project folder.

The Geochemistry for ArcGIS system was designed to provide interactive visual software tools for field and project geologists. The Geochemistry import, edit, review and analysis system provides a versatile environment in which to apply your experience and knowledge – while staying in touch with original data and multi-disciplinary information.

Geosoft provides sample data for you to use when working through these How-To Guides. These data files can be found in your "...\Geosoft\Oasis montaj\resourcefiles\data\geochemistry" folder.

Geosoft Connect and Geosoft ID

Geosoft Connect is a service available through the Geochemistry for ArcGIS application. Geosoft users can sign in to their Geosoft ID, using Geosoft Connect, to access any online service that requires a secure sign in, including online licensing, online updates, VOXI Earth Modelling and Bing Map services. Geosoft Connect enables you to sign in from your desktop when you are connected to the Internet.

As a customer, your Geosoft ID is the only sign in you'll need to remember when accessing any of our services, resources, community activities or our web site.

⚠️ *For more information see the Geosoft ID Common Questions (https://my.geosoft.com/commonquestions) on the Geosoft web site*

Create your Geosoft ID

Your Geosoft ID is the only sign in you'll need to remember when accessing any of our secure online services, including online licensing, online updates, VOXI Earth Modelling and Bing Map services.

Create Geosoft ID:

1. Connect to the Internet.
2. Go to the, *Register Geosoft ID (https://my.geosoft.com/createnew)* web page.
3. Select the **Create a Geosoft ID** button. The *Create a Geosoft ID* web page is displayed.
4. Enter your information as required and then select the **Create a Geosoft ID** button.

   ⚠️ *We prefer if you use your business email for your Geosoft ID. You may get a message saying 'A user account already exists for that e-mail address.', If you don't know or have forgotten the associated password, you may need to reset it.*

5. Once you have registered, Geosoft will immediately send you an activation link to the e-mail address you provided (within 20 minutes).
6. When you receive the activation e-mail, select the **Click to Activate** link. Your Geosoft ID will be activated.

Geosoft Connect is a service available through the Geochemistry for ArcGIS application. You can use this service to sign in to your Geosoft ID from your desktop, when you are connected to the Internet.

Installing Geochemistry for ArcGIS

Geochemistry for ArcGIS is installed from the Geosoft Extensions for ArcGIS DVD. Please note that your installation procedure will vary slightly depending on the operating system you are using. If you are installing on Windows NT, you must install while logged in as Administrator.

Once you have successfully installed this program you can begin working with Geosoft's Geochemistry for ArcGIS software application.

To Install Geochemistry for ArcGIS

1. Insert the Geosoft Extensions for ArcGIS DVD into your computer. The *Install Wizard Setup* dialog is displayed and tells you that the system is preparing the installation.
2. When ready, the program displays the *Geosoft Extensions for ArcGIS – Install Wizard Welcome* screen. To continue, follow the directions on the screens that appear.
3. When the *Installation is complete message* appears, click **Finish**. The Geosoft Extensions for ArcGIS software has been installed on your computer.

Installing the Geosoft License

To enable Geochemistry for ArcGIS you must install a valid Geosoft License using the Geosoft License Manager. With the Geosoft electronic licensing model, licenses are handled by the Geosoft license server. Using this electronic License you can move your license between computers online, via email, or if necessary by disk. The Geosoft License management system offers many tangible and real benefits, including:

- Regular upgrades and fixes. We release multiple upgrades a year (with interim patches when possible). You can only access these with a valid license key.
- Transfer license from office to home computer without re-installing all software
- Add newproducts to your license instantly
- Easy to manage "1 user - 1 license" model
- Reduces costs by eliminating unauthorized use
- Rent modules for specific time periods
- Add extra services adn products when required

It may take some time to get used to the system and there are some restrictions that apply:

- Licenses are keyed to individual PCs. Therefore you must park the license to switch computers
- Must park license before changing operating system (for a new hard drive, for example)

⚠️ *If you have any problems with your licensing please contact your local Geosoft Technical Support representative http://www.geosoft.com/support.*

To install your Geosoft License

1. On the *Geosoft Extensions Setup and Seeker* toolbar, select **Geosoft Setup**.

2. Select *License* and then select **Setup license**.
   The *Geosoft License Manager* will appear.

3. In the *License Key* box, enter your 8-digit alphanumeric license key (provided with your DVD-ROM) and click the **Internet** button. Geosoft's license server will retrieve your license from our Internet server and download it to your computer. When the license has been successfully installed all of the software you are licensed for will now be accessible to you.

⚠️   *The Geosoft License Manager can also be accessed directly from the Windows "Start" menu (i.e. on the **Start** menu, select All Programs|Geosoft|Extensions for ArcGIS|License|Setup.*

Using the Geosoft License Manager

The following Geosoft License Manager options enable you to manage your license:

❯   **Install License** – Installs your license, using your 'license key', from the Geosoft license server

❯   **Show computer ID** – Displays your computer ID which is a unique alpha-numeric string that identifies your computer and is used to link your Geosoft license to your computer. The Computer ID is also used when transferring your license to another computer

❯   **View License** – Displays your license information which you can view at any time to see what applications or tools you are licensed for

❯   **Update License** – Updates your license (i.e. access additional extensions) by first contacting your local Geosoft representative and then simply connecting to the Geosoft license server

❯   **Park License** – Parks (moves) your license onto the Geosoft license server, enabling it to be retrieved later

❯   **Transfer License** – Transfers license from one computer to another (e.g. from your desktop to a laptop or visa-versa), using the "Computer ID"

❯   **Lock License** – Locks license on the current computer

❯   **Unlock License** – Unlocks license from the computer using the 'License key'

Displaying Geochemistry for ArcGIS Toolbars

Once you have installed the Geosoft Extensions for ArcGIS software and opened your ArcGIS application, you may want to display the Geochemistry for ArcGIS toolbars (Geosoft Extensions Setup and Seeker and Geosoft Geochemistry).

Geosoft Extensions Setup and Seeker Toolbar

The *Geosoft Extensions Setup and Seeker* toolbar provides a variety of options enabling you to set up your Geochemistry for ArcGIS system, setup and manage your Geosoft License, access Seeker data, import Geosoft map files directly into your ArcGIS application, and access a variety of Help resources for your Geosoft software.

To Display the Geosoft Extensions Setup and Seeker Toolbar

1. On the *ArcMap* menu, select **Customize**.
2. Select **Toolbars**. The *Toolbar* menu will be displayed. This menu includes all the toolbars that can be displayed in your ArcGIS application.
3. Select the **Geosoft Extensions Setup and Seeker** option and the *Geosoft Extensions Setup and Seeker* toolbar will be displayed.

To Display the Geosoft Geochemistry Toolbar

1. On the *ArcMap* menu, select **Customize**.
2. Select **Toolbars**. The *Toolbar* menu will be displayed.
3. Select the **Geosoft Geochemistry** option and the *Geosoft Geochemistry* toolbar will be displayed.
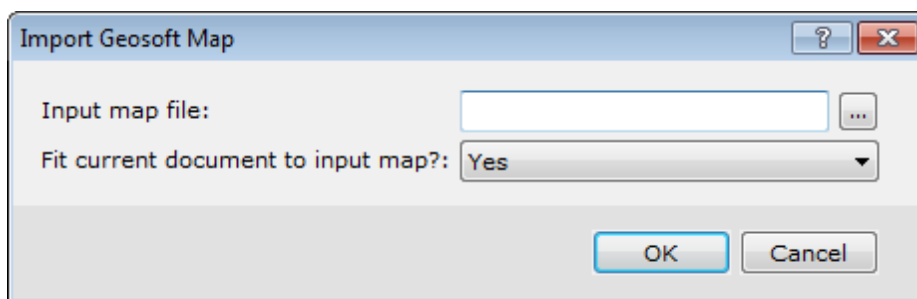

4. The Geochemistry for ArcGIS toolbars can then be docked in the ArcGIS menu area (top, bottom or sides) by dragging each toolbar and dropping them at the desired location.

Import Geosoft Map

The **Import Geosoft Map** icon () found on the Geosoft toolbar enables you to quickly and easily add any Geosoft map as a Layers and/or Graphics in ArcMap.

To Import a Geosoft Map into an ArcMap MxD

1. On the *Geosoft Extensions Setup and Seeker* toolbar, select the **Import Geosoft Map** icon (). The *Import Geosoft Map* dialog appears.
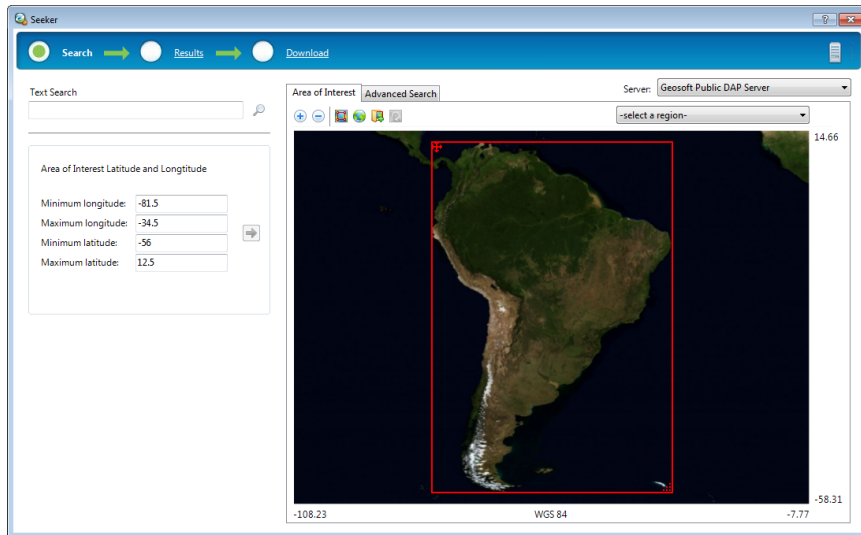

2. Using the *Browse* button locate the Geosoft *Input map (*.map) file* to add.

3. From the *Fit current document to input map* dropdown list, select the option that best suits your data.

4. Click the **OK** button and your Geosoft Map is imported into your current ArcMap MxD file.

Seeker

Seeker is designed to help you search for and download spatial data stored on global and corporate spatial servers including Geosoft DAP servers and WMS servers, as well as data discovered by the Dapple Search data service and spatial data indexed locally by Desktop Cataloger.

From the **Seek Data** menu, select **Seeker** to open Seeker and find relevant exploration data.

See Also:
  ▶ Download Seeker Data

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Locating and Downloading a Spatial Dataset

The *Seeker* tool enables you to find, view and download a dataset in 3-easy steps. To begin open a map, with a set coordinate system. The Seeker tool will search for and display data that is within the open map's extents.

To Locate and Download a Spatial Dataset

1. On the *Seek Data* menu, select **Seeker**. The *Search* step on the *Seeker* tool will be displayed.

   ⚠ *If the area of interest (AOI) displayed in the Interactive Map window is not the same as your open map, select the **Update Area of Interest from Open Map** (⬡) button from the Navigational tools bar.*

2. To narrow the search to a specific region or data type, you can specify a text string in the <type text search criteria> text box, and press **Enter** .

   ⚠ *You can also select the Advanced tab and use the Structured Metadata Query tools to refine your search parameters. For more information, select the **Help** button on the Seeker tool.*

3. The *Results* step is opened, displaying your default DAP server search results. You can view other data source

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results by selecting the data source on the Server Manager menu . The data results are also available in three views (Tree , List and Thumbnail). When viewing the results in tree or list view, if you hover your cursor over the data icons (e.g. 🖼, 🎨, 🎲) a popup thumbnail image with a View Metadata link will be displayed. Using the check box, select the dataset file names and select the *Preview Map* tab. The selected datasets will be displayed in the preview map window. When you are satisfied with your data selections, select the Cart step.

4. The *Cart* step enables you to select a dataset for download, and to display a selected dataset in the globe data explorer, Dapple . To specify download options, select the *Options* tab. This tab enables you to specify download options for all the datasets and for individual datasets.

5. When you are satisfied with the download settings, select **Retrieve** and the selected datasets will be downloaded directly to you open map. Select the *Close* button to close the *Seeker* tool.
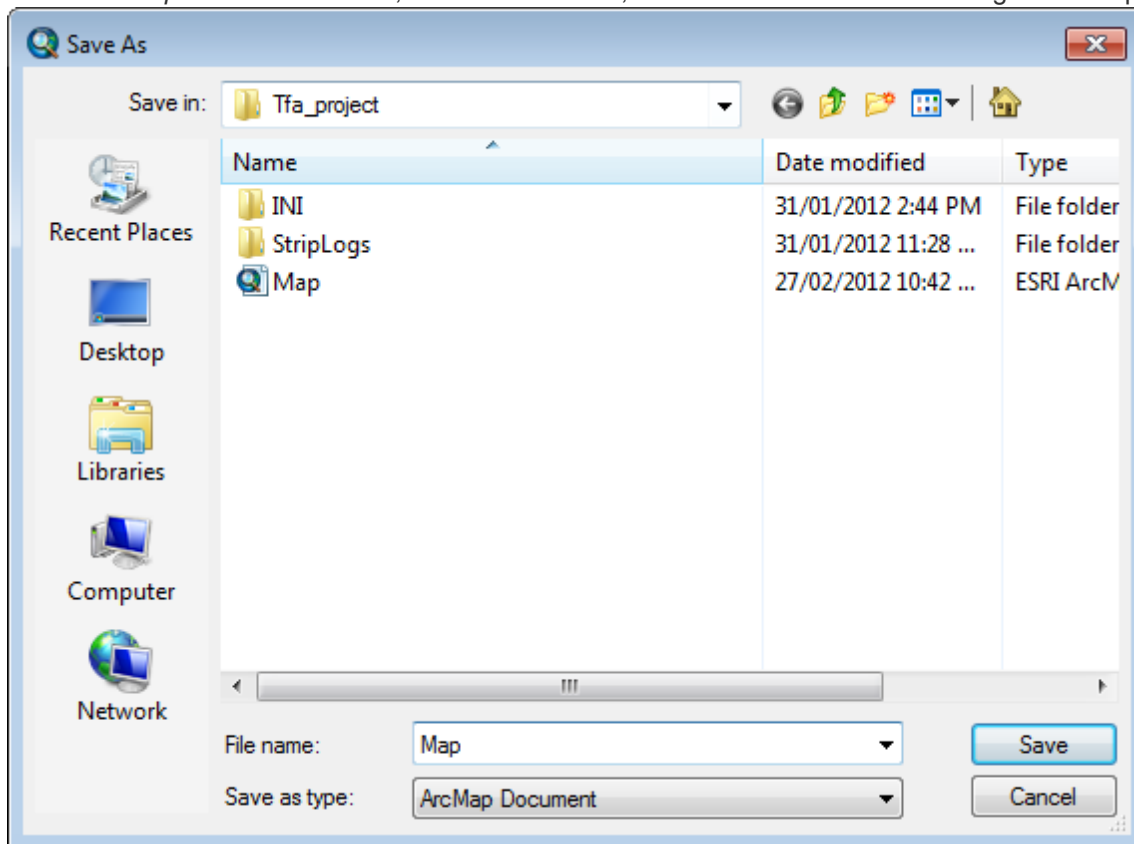
💡 *For more information select the **Help** button on the Seeker tool.*

Saving the ArcMap Map Document File

The ArcMap map document file (*.MXD) should be saved in the same working folder where the Geochemistry for ArcGIS project and data will be saved. This will ensure that dialogs will point to the correct folder when saving data.

To Save the Esri MXD Project

1. On the *ArcMap* main menu toolbar, from the *File* menu, select **Save**. The *Save As* dialog will be displayed.

2. Navigate to the working folder where the files are saved.
3. In the *File name* text box, specify the name.
4. Click **Save**.

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