

earthVision®9.1 MSYS Installation - Required for Classroom Training

(Win7x64-bit instructions, substitute 32-bit if needed)

- A. Login with Administrative rights.
- B. Go to Control Panel -> System -> Advanced settings -> Environment Variables and add the 2 license variables provided in the License Information Sheet.
- C. Control Panel->Add/Remove Programs (XP) or Programs and Features (Win7); remove any version of earthVision 8 or 9.0 and any version of PTC MKS Toolkit NutCracker Platform Components. Restart computer
- D. Go to <http://strawberryperl.com/> download and install the recommended 64-bit version.
- E. Open EV 9.1 Windows DVD, open MSYS/ev91_win64MSYS_1nov2015 and run setup.exe, take all defaults. Finish and restart.
- F. Log in and confirm MSYS version: Open EV Main Menu -> Visualization; Base and Contour maps should be grayed-out. If not grayed-out, you'll have to repeat step C then reinstall EV9.1 MSYS.
- G. Test license settings: From EV Main Menu, open the 3D Viewer. If the dialog box doesn't open after a bit, double-check Step B. If settings are good, you should get a firewall alert. It's harmless - click "cancel" and back out of the Viewer. The alert won't appear again.



- H.** EV9.1 MSYS is now installed. See Appendix A for important/recommended settings.
- I.** These instructions are specifically for TIPS users. The EV Site_Admin_Guide contains non-TIPS information that could be confusing; Appendix B of these instructions are from the guide and do apply to TIPS installations.

Any issues or questions should be directed to: Mike Dunn
(mldunn@osmre.gov) (412)-937-2910 or Kristin Brown
(kbrown2@osmre.gov) (303)-293-5048

The TIPS' website sometimes gets updated; every now and then, check the earthVision and download pages for patches, updates, and new features

NOTE #1: Digitizing tablets are no longer supported. Contact us if this is unacceptable.

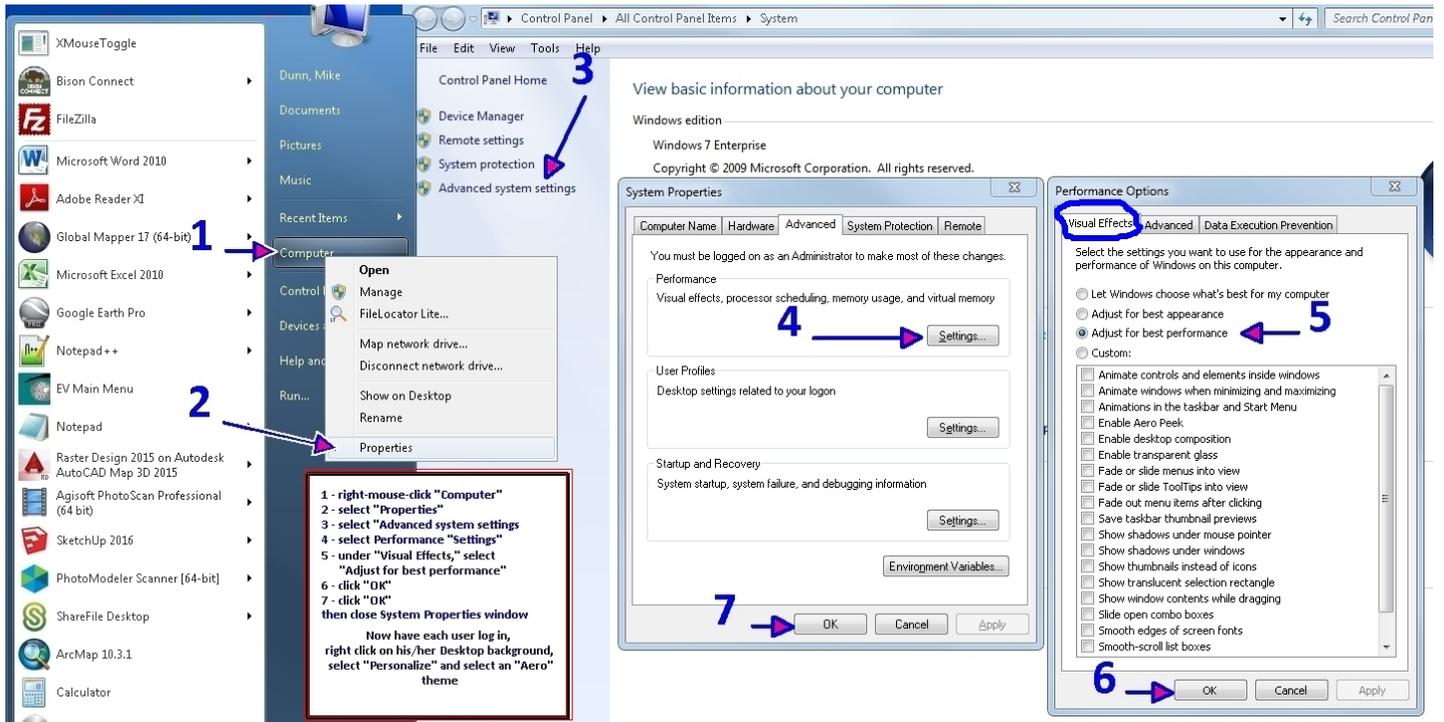
NOTE #2: Direct printing to some newer printers isn't supported. Workaround: install a PDF printer; print to a file, open the file in a PDF viewer, then print.

Appendix A – Recommended Performance and Desktop Settings

PERFORMANCE

Default Windows Vista and 7 settings aren't optimized for high-end technical software. An Administrator needs to make the following change:

Open Control Panel -> System and Security -> System (Admin login and password needed) Under Advanced -> Settings and Adjust Visual Effects for best performance:



The “best performance” setting disables Windows Aero themes. earthVision works best with Aero themes so re-enable your Aero preference.

As a regular user, right-mouse-click the Desktop, pick the Personalize option, then pick any one of the Aero themes. Back out – save theme if you want – the aero effects are re-enabled but “best performance” is unaffected.



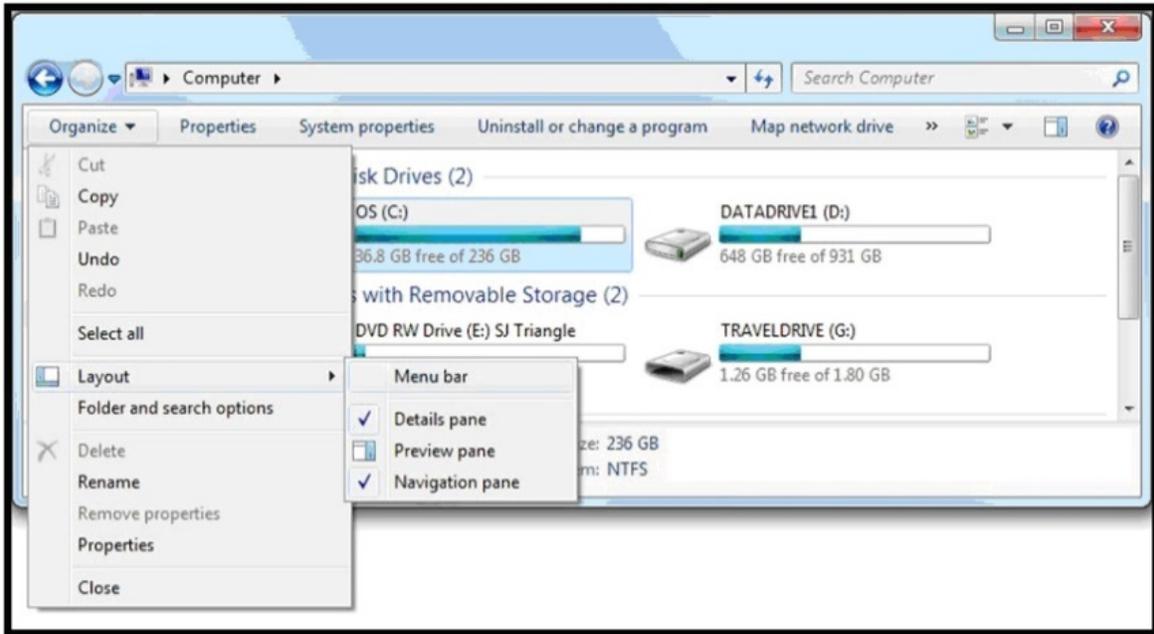
Every week or two, recheck the performance settings. IT departments and policies have a bad habit of putting everything back to the Window’s defaults.

Show ALL Files and Extensions

File extensions are hidden by default in Windows. Because Windows’ “idea” of **Type** can’t be trusted, showing extensions helps you use the right files for all software.

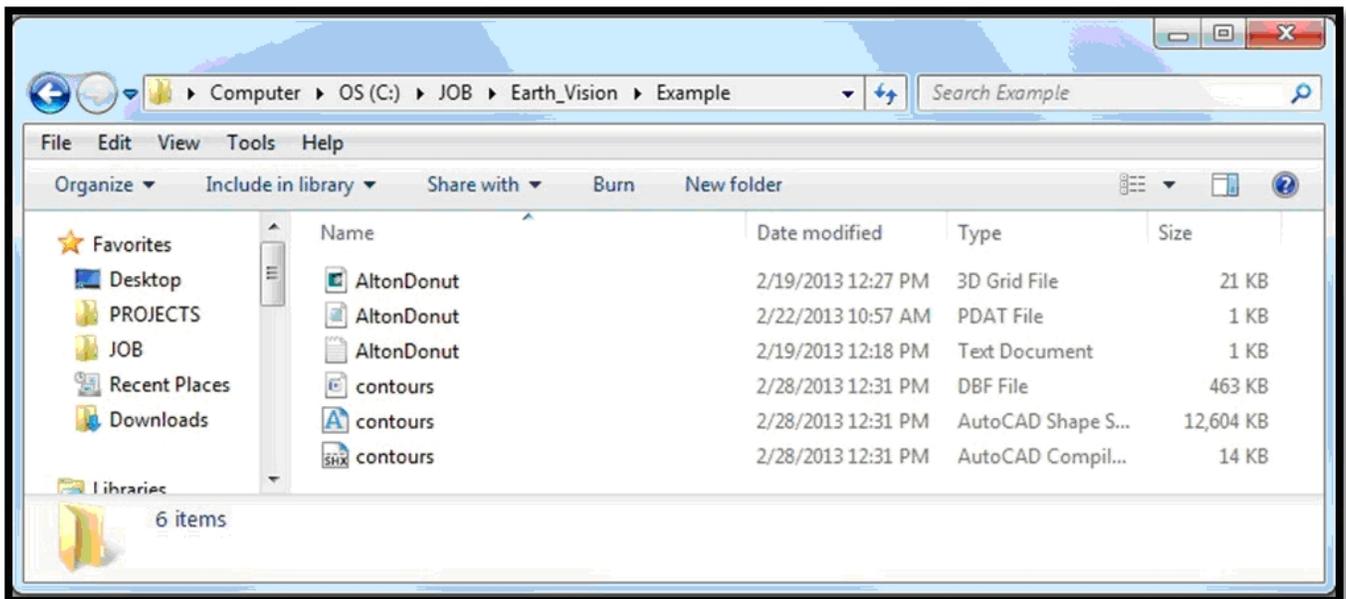
Example: A folder may have several files with the same name:

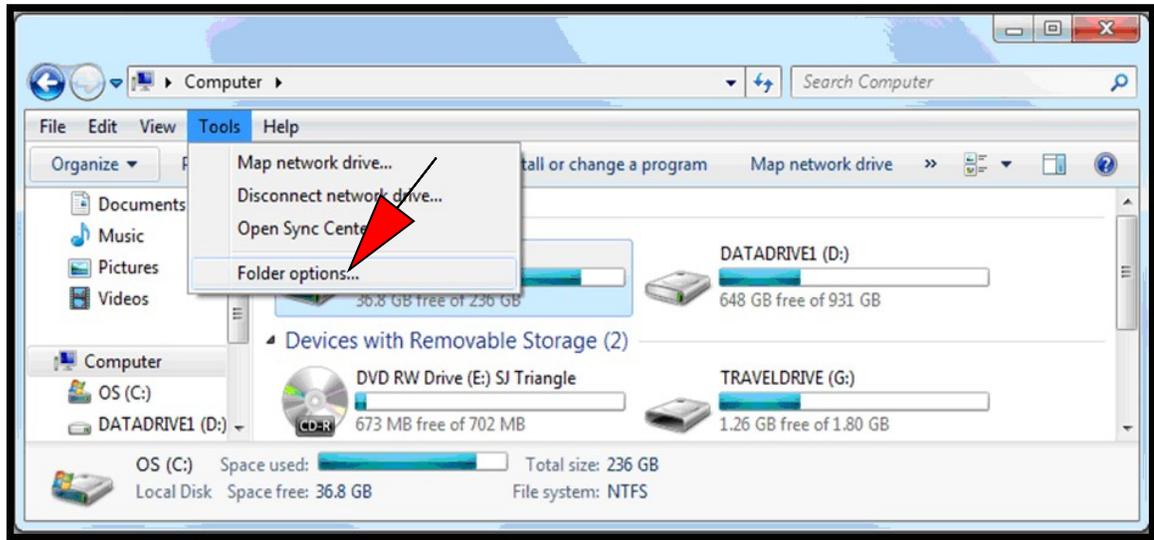
You can't tell what these files are just from their names. "Type" is often associated with



the wrong program. Not only is this confusing but it's easy to delete the wrong files. To show file extensions, click on **My Computer** to get a window that looks like this:

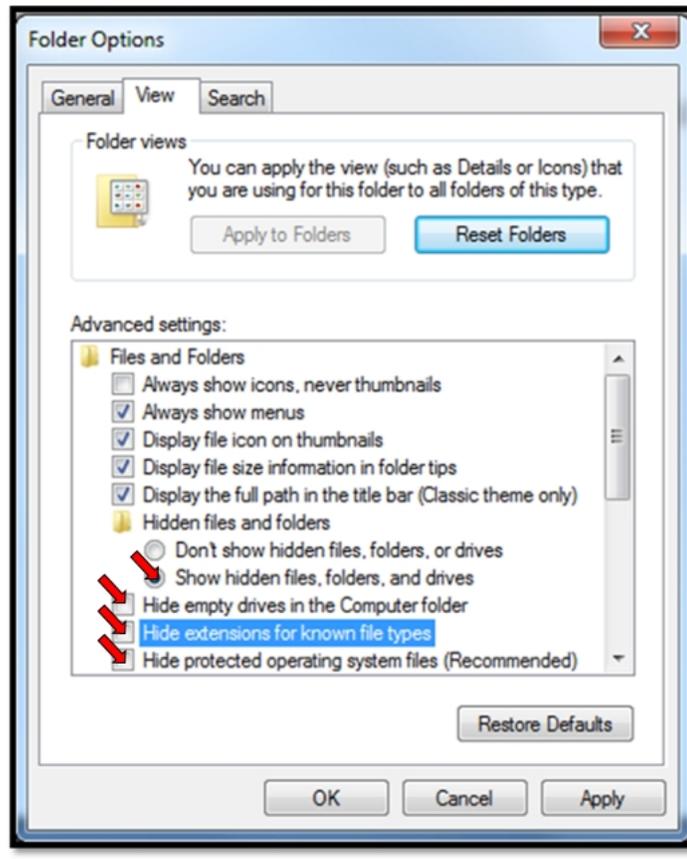
Under the **Organize** dropdown **Menu**, choose **Layout** and turn on the **Menu Bar**. Then click the **Tools** dropdown menu and select **Folder Options**.





Select the **View** tab and under **Advanced Settings**, check:

Show Hidden Files, Folders and Drives then uncheck **Hide Empty Drives in the Computer folder** and **Hide extensions for known file types** and **Hide protected operating system files** (answer “yes” when Windows prompts).



Click **OK** and now you can see all extensions.

Appendix B– Installation Problems

(From Pages 23 through 25 of Dynamic Graphics EV Windows Install Guide)

Errors During Installation

An EarthVision installation will install the EarthVision software and, when the “mks” version is being loaded, the MKS Toolkit as well. Problems can occur in either of these steps.

EarthVision Installation Problems

The most common problems with the EarthVision installation is lack of disk space. If this occurs, an error message will appear and the installation must be canceled. More disk space can be freed, the Trash Emptied on a particular disk, or another disk may be selected. When more space is available, the installation may be re-started.

MKS Installation Problems

False Error Message

During the installation of the MKS software, an icon may appear on the Task Bar and all installation activity stops. Click on the icon and the message reports an installation error. Click “OK” in this box. Another box appears saying that MKS has suffered a Fatal Error upon installation. Normally this message is not correct and MKS has installed properly. EarthVision will continue automatically to install. Continue the installation process and verify that EarthVision is working.

General Error Messages

For most other MKS errors where MKS is not successfully installed, do the following:

- Use the Add/Remove Programs function to remove any MKS or NuTCRACKER application.
- Remove the “DataFocus” key from the registry:
 1. Open regedt32:
Start -> Run -> regedt32
 2. Go to:
HKEY_LOCAL_MACHINE\SOFTWARE\

Select the DataFocus key.

Delete the DataFocus key by:
Edit -> Delete

NOTE: Of course caution should be exercised here. We are trying to get rid of all the DataFocus entries but nothing else.

- In extreme cases, it may even be necessary to remove the NUTROOT directory manually (usually C:\NUTROOT) after MKS 7.x has been uninstalled.
- Reboot and try to re-install EarthVision.

File Sharing Problems

One class of MKS installation errors simply reports a Fatal Installation Error but does not install the MKS software. This can be due to the fact that MKS requires that the “File and Printer Sharing” service be turned on. To check this, please do the following:

Start -> Settings -> Control Panel -> Network & Dial-up Connections -> Local Area Connection

On the General tab, select Properties and look for the setting of:

File and Printer Sharing for Microsoft Networks

This service should be checked. If it is not, check it and reboot.

Administrator Privileges

Windows allows other users to have some or all privileges normally reserved for *administrator*. Unfortunately, these accounts often do not have full administrator privileges and this can provoke an error in the MKS installation.

This type of failure to install MKS usually only provides a SEVERE error message stating that the installation could not be completed.. If this occurs, you should re-do the installation as the actual “administrator” account.

Uninstallation Problems

From time to time, the removing of EarthVision from a computer can encounter problems. Typically, the software is removed but it still exists on the Add/Remove Programs menu and new software will not install, complaining that the previous version is still installed. When this occurs, two things are required:

- A. Delete the “Dynamic Graphics\” folder (often in C:\Program Files\Dynamic Graphics\).
- B. Remove a key from the registry. Here are instructions for this removal:

Start up the registry editor: Start -> Run -> regedit

Navigate to:

HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Microsoft\Windows\CurrentVersion\Uninstal
1

From the table below, note the GUID of the previous version. In *regedit*, find and select the key with that GUID. Delete the key: *Edit* and *Delete*.

Product	Version	Bit	GUID
EarthVision	8.0	32/64-bit	{1B0999A5-F741-47E7-98BD-B245B5762D22}
EarthVision	8.1	32/64-bit	{F4848228-0B28-4594-A63D-B9F6C3D54347}
EarthVision	8.2	32-bit	{31B44257-DF75-4DBA-A616-53203C5299F0}
EarthVision	8.2	64-bit	{807575B6-268F-4C5D-B543-7825E6389FDF}
EarthVision	9	32-bit	{C16F6ED0-0827-4354-83EC-263B510E9894}
EarthVision	9	64-bit	{FC7F9E98-E6FC-4406-BF53-A47A551E0296}