

Making Images Manageable in AutoDesk Using ArcGIS

This document was created for users viewing imagery in ArcGIS and importing images into AutoDesk.

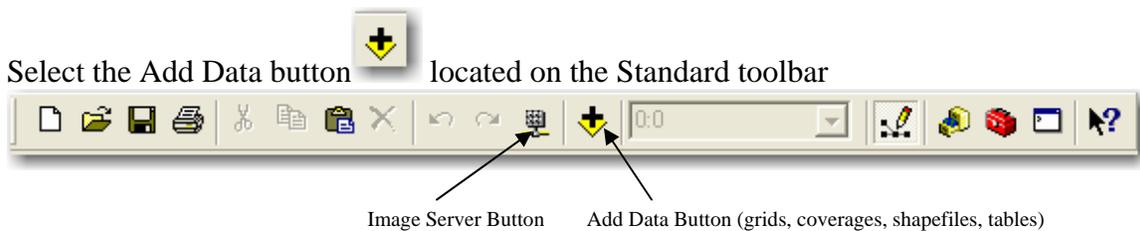
Abstract:

Working with county NAIPs or the State of Utah Ortho Imagery in AutoDesk is becoming more difficult for two reasons, resolution is getting better, and the images are not as compressed as they used to be. Fortunately, ArcGIS allows the area of interest to be clipped, which eliminates the need to regenerate the entire image. You can also save imagery as just a JPG or keep the original resolution of the data. Below, are procedures to clip and regenerate images of the Area of Interest using ArcGIS 9.1 ArcMap ArcInfo.

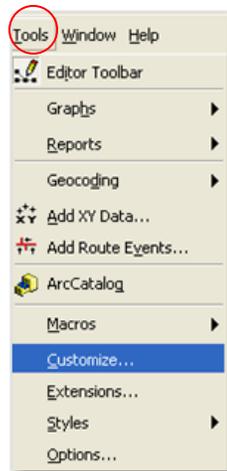
Image Server (option):

Located in Appendix A is a procedure to load image server. Rather than using NRCS server space, the Image Server allows users to connect to AGRC's server to load imagery.

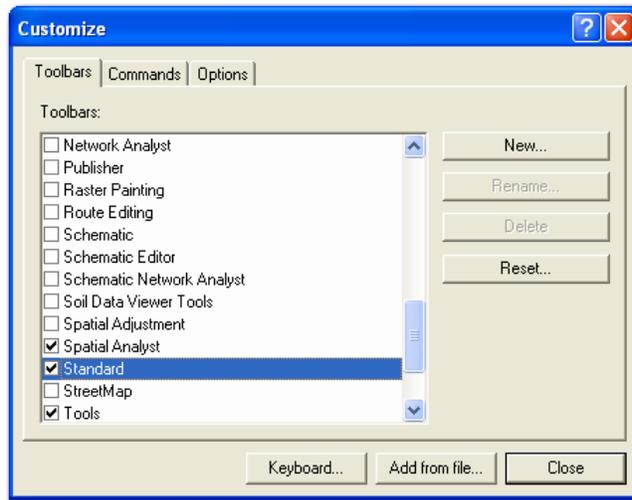
Adding Images and or Data (grids, coverages, shapefiles, tables)



If the Standard toolbar is not Viewable select >> Tools (menu)>>Customize.



While in “Customize” select the Toolbars tab and check Standard.



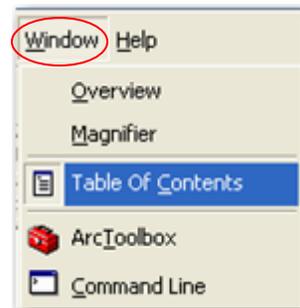
Another option is to right click or double left click the blank space where toolbars can be docked and select Standard.

After adding (jpg, tiff, sid) zoom into the areas of interest. The zoom  option is located on the Tools Toolbar (see above for procedure).

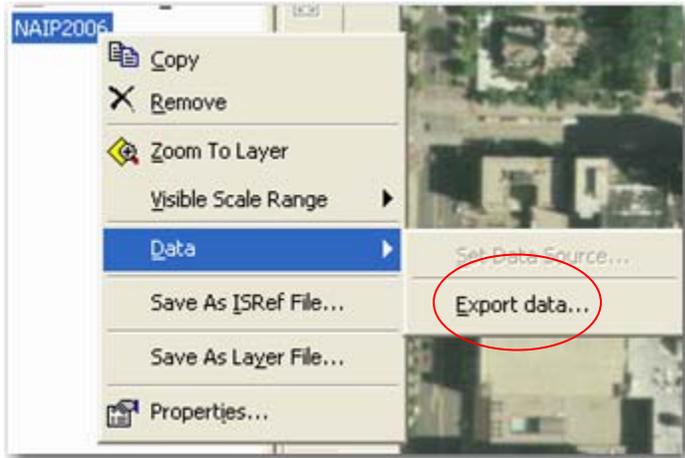


Table of Contents

Right click on the image layer in your Table of Contents. If no table of contents is available click the >>Window (menu)>>Table of Contents.



Select >>Data>>Export data after right clicking data.



For the image file (grids, coverages, shapefiles, tables) export, make sure to select “Data Frame” and “Data Frame (Current)”. Make sure to locate a folder where you want to store the data (**select folder – do not open folder**). Name the file in the “Name” field and click “Save.”

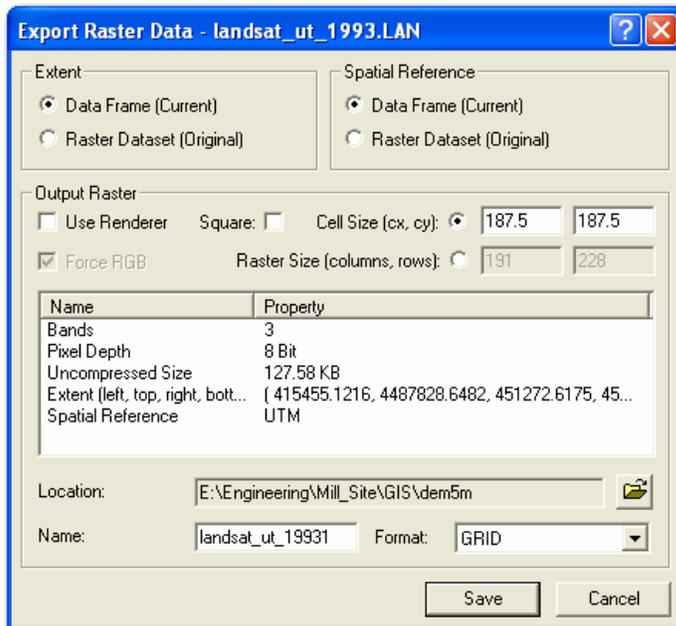


Image File Export Example (grids, coverages, shapefiles, tables)

If using Image Server - the export options will look like the image below. Make sure to select the “Current View Extent”. This is your area of interest. You have multiple format options. Locate and save the file accordingly.

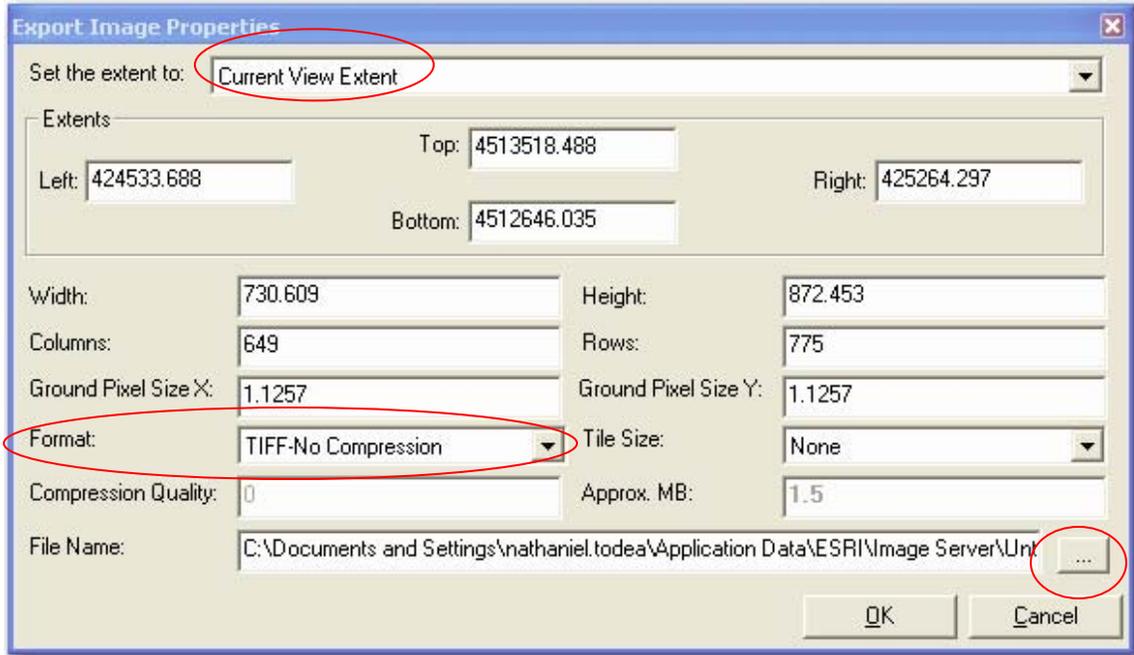
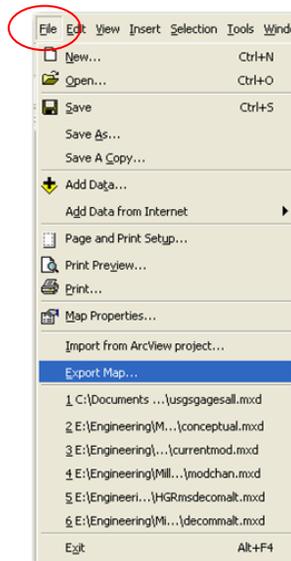


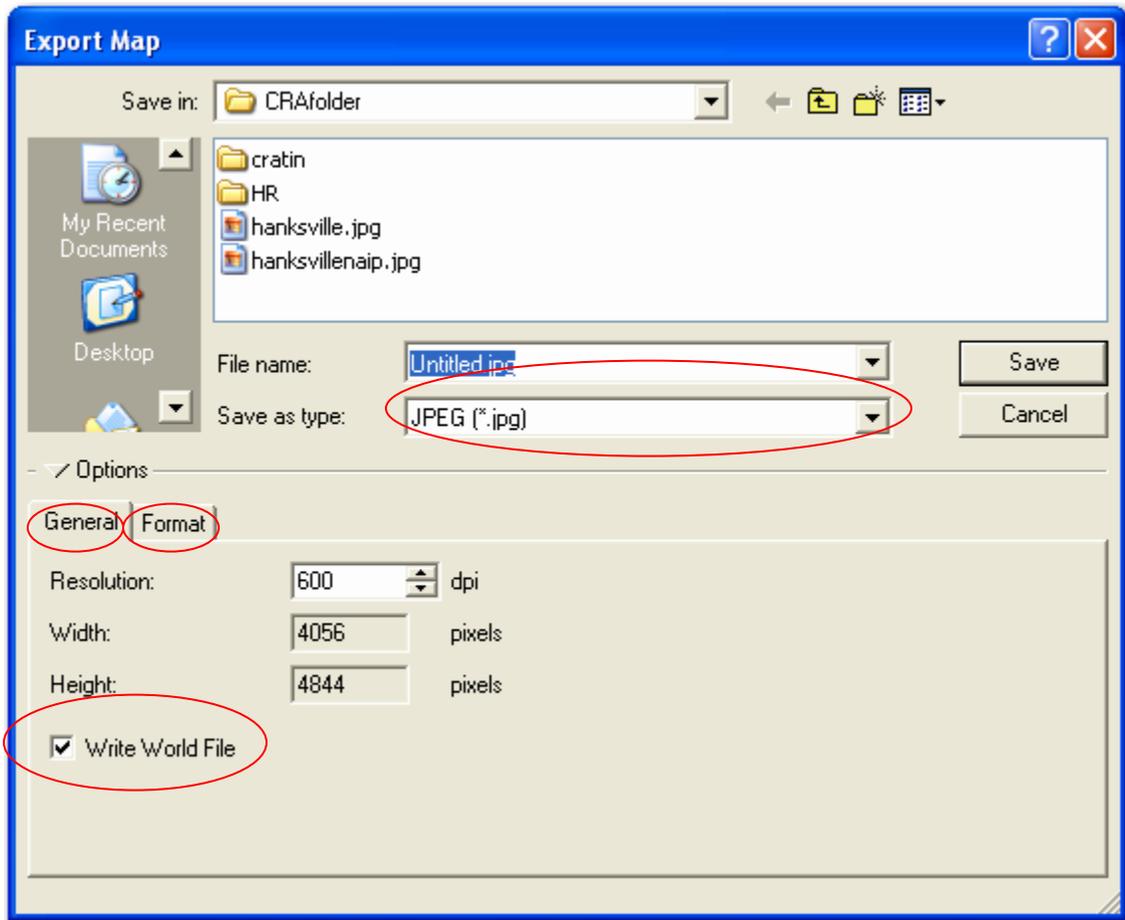
Image Server Example

To export a map or jpg with an associate world file

Click >>File >>Export Map. Make sure that you are in Data View option  versus Layout View . This option is located in the bottom left corner of the window where the image is located.



With the Export Map option selected you will notice you are able to name and save a file type. I suggest selecting the JPEG (*.jpg) in “Save as Type”. You will notice if you select the expand “Options” a “General” and “Format” tab have more options. To have a georeferenced file you will need to select the Write World File. ****Note:** Any layers that are checked on in the Table of Contents and visible in the data view, will also be included in the image.



Appendix-- ArcGIS Image Server Client

A copy of Image Server Client is on the State Office GIS server at the following location:

\\utsaltlak2s110\data\ImageServer_Client. Copy the folder to your computer's C drive. After it has been copied follow the instructions in the ImageServer_Client folder called "IS_Client_Install.doc."

Admin privileges are required to install the software. Image server will work with ArcGIS 9.1 and 9.2 but **(not 8.3)**.

AGRC has the following available images:

- Statewide 2006 1 meter NAIP
- Statewide 2004 1 meter NAIP
- Statewide 24k DOQ - ortho imagery
- UAO 2003 - High res imagery for Wasatch Front
- Statewide 24k DRG (Topos)
- Statewide 100K DRG
- Statewide 250K DRG
- Statewide 500K DRG
- 2006 1 foot for Heber area - This is an example of the 1 foot imagery we will be getting for various parts of the state
- 2006 Color-Infrared

For faster imagery redraw follow these steps:

1. Add Imagery to project
2. Right click the image layer in the Table of Contents
3. Click on "Properties" >> service properties tab >> then click on the drop down arrow for compression method and choose JPEG - adjust the compression quality, try 60%

**Note - When you are ready to print you may want to change back to uncompressed. Also, from the layer properties you can adjust the transparency, contrast and brightness.