

## Using AutoCAD Products To Access the NH GRANIT Web Map Services (WMS):

Map 3D 2009

Civil 3D 2009

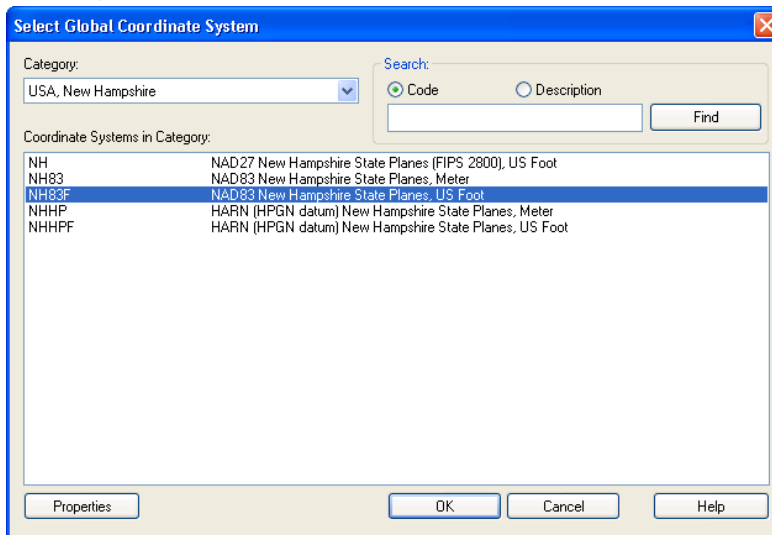
Land Desktop 2009

Open up an AutoCAD Map 3D 2009 (Map 3D), AutoCAD Civil 3D 2009 (Civil 3D), or AutoCAD Civil 3D Land Desktop Companion 2009 (Land Desktop) session. (Civil 3D and Land Desktop products both contain the AutoCAD Map 3D features.)

### Step 1. Set the drawing's coordinate system zone and units

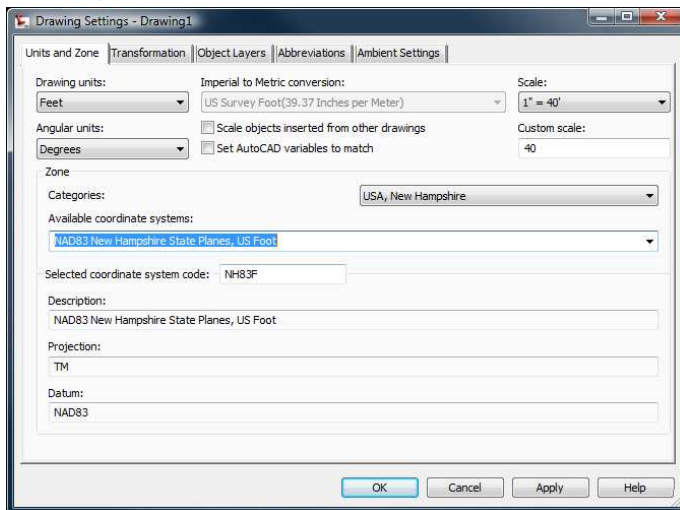
#### Map 3D:

- Select **Map→Tools→Assign Global Coordinate System** to display the *Assign Global Coordinate System* dialog.
- In the *Assign Global Coordinate System* dialog, click the *Select Coordinate System* button to display the *Select Global Coordinate System* dialog.
- In the *Select Global Coordinate System* dialog, select “USA, New Hampshire” from the *Category* drop-list.
- In the *Coordinate Systems in Category* list, select “NAD83 New Hampshire State Planes, US Foot”.



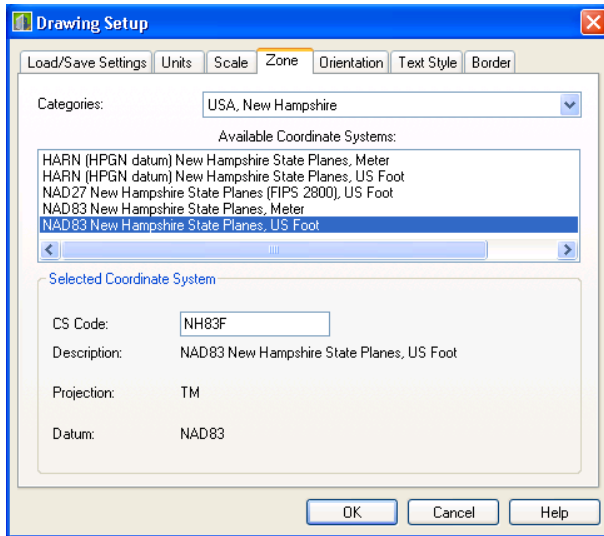
### Civil 3D:

- Perform the same steps as AutoCAD Map 3D or select the **Settings** tab of the *Toolspace* window.
- In the *Settings* tab, select the root <Drawing> node and *right-click*→*Edit Drawing Settings* to display the *Drawing Settings* dialog.
- In the *Drawing Settings* dialog, select the *Units and Zone* tab.
- In the *Zone* group box, select “USA, New Hampshire” from the *Categories* drop list.
- From the *Available coordinate systems* drop list, select “NAD83 New Hampshire State Planes, US Foot”.



### Land Desktop:

- Perform the same steps as AutoCAD Map 3D or select **Projects**→**Edit Drawing Setup** to display the *Drawing Setup* dialog.
- In the *Drawing Setup* dialog, select the *Zone* tab.
- In the *Zone* tab, select “USA, New Hampshire” from the *Categories* drop list.
- In the *Available Coordinate Systems* list, select “NAD83 New Hampshire State Planes, US Foot”.



## Step 2. Connect to the GRANIT Web Map Service (WMS)

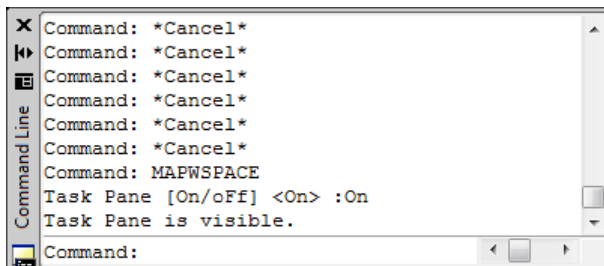
- Go to the GRANIT website: <http://www.granit.unh.edu/>
- Select “Online Maps & Services” from the Data navigation bar.
- Select “Web Map Service (WMS)”.
- Highlight the URL that you wish to use. For example,

### **2005 1-Foot Color Aerial Photos for Southeast New Hampshire**

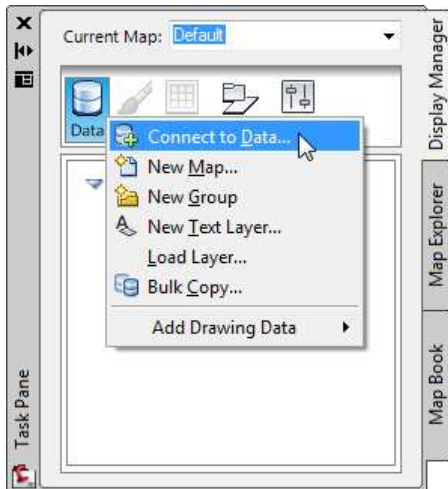
URL: [http://geoservenh.sr.unh.edu/ArcGIS/services/2005\\_DOT\\_SENH\\_1FT\\_RGB/MapServer/WMSServer](http://geoservenh.sr.unh.edu/ArcGIS/services/2005_DOT_SENH_1FT_RGB/MapServer/WMSServer)

### **Map 3D/Civil 3D/Land Desktop:**

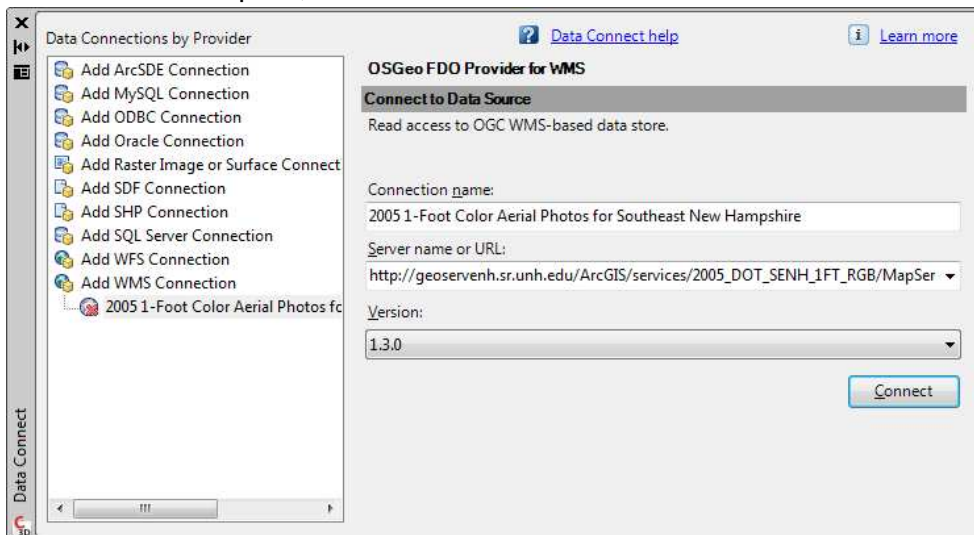
- If the AutoCAD Map 3D *Task Pane* window is not visible, type “MAPWSPACE” at the AutoCAD Command Line.



- In the *Task Pane* window, select the *Display Manager* tab.
- In the *Display Manager* tab, select **Data button** → **Connect to Data** to display the *Data Connect* window.

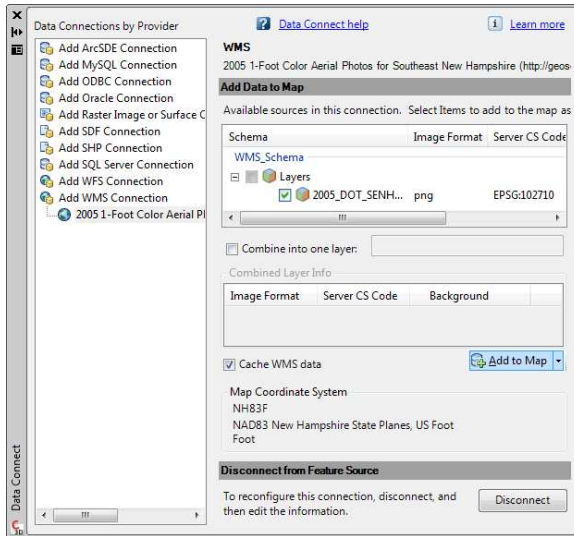


- In the *Data Connect* window, select “Add WMS Connection” from the *Data Connections by Provider* list.
- In the *Connection name* field, enter the name of the connection, such as “2005 1-Foot Color Aerial Photos for Southeast New Hampshire”, or accept the default “WMS\_1”.
- In the *Server name or URL* field, copy-paste the appropriate URL from the GRANIT Web Map Service (WMS) web page.
- In the *Version* drop list, select 1.3.0.

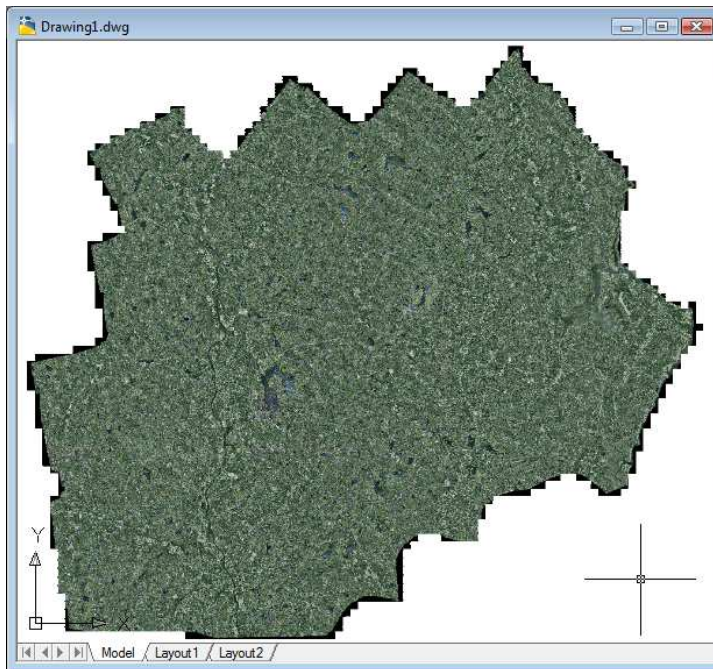


- Select the *Connect* button to make the WMS connection.  
**NOTE:** A *User Name & Password* dialog box is displayed. Select the *Login* button to proceed, as no user name or password is required.
- The *Add Data to Map* category is displayed in the *Data Connect* window when the connection is made. In the *Available sources in this connection...* list view, expand the *WMS\_Schema/Layers* node (expanded by default), then select the layer name to add to the drawing.  
**NOTE:** If you don't see the *WMS\_Schema* data, you need to expand the height of the *Data Connect* window.

- Select the *Add to Map* button to place the imagery in the Map 3D/Civil 3D/Land Desktop drawing session.



- The imagery will appear in your drawing as shown below:



We thank Robert Moynihan, LLS, Thompson School of Applied Sciences, University of New Hampshire, and Robert B. Todd, Jr., LLS, AEC Solutions Division, Autodesk, Inc., for their generous assistance in developing these instructions.