


Choose WMS Layers for Use in Popular Viewers

TNTmap Builder is a FREE means of browsing and selecting Web Map Service (WMS) content to be viewed in the viewer of your choice (Google Maps, Google Earth, World Wind, TNTmap Open, or TNTmap Viewer). TNTmap Builder can be used on Windows or Macintosh computers. It can be run as a web application or downloaded and installed. In either case once acquired, TNTmap Builder can be used independently of any contact with MicroImages' web site or any other MicroImages professional product. Whether TNTmap Builder is installed or run as a web application, the Windows version comes in three forms: the standard form, which is illustrated below, the mini form, and the quadrant form. The different forms are discussed on the color plate entitled *TNTmap 2006:72: Three Forms to Fit User Style and Device*. These three forms are also available if TNTmap is run as a web application on a Macintosh. Additionally, there is a Macintosh Dashboard widget form that can be downloaded and installed and is described on the color plate entitled *TNTmap 2006:72: Widget Viewing of WMS Content for Macintosh*.

You can start TNTmap Builder, click on the desired layers (the layers from your last used WMS will be listed), and view them in Google Earth or another viewer by clicking on the desired viewer icon, which means you can be viewing a complex set of layers in Google Earth after just two clicks. To choose layers from another WMS, use the *Add other WMSs to the list* button or enter the URL. The global layers used for the Locator are the default for the overview panel in TNTmap Viewer. You can choose any WMS layers for this purpose. (The overview uses a box to indicate the area shown in the larger, main view canvas area in TNTmap Viewer and can be used for repositioning.)

Listing of layers will vary from one WMS site to another. Some sites have all available layers listed individually. MicroImages organizes their layers into atlases. If allowed by the TNTserver Administrator, you can expand an individual atlas and see the groups and layers it contains. All layers in an atlas can be selected for viewing by clicking on the atlas name. Individual layers can be selected for viewing by expanding its list (clicking on ) and clicking on their names in the expanded list. There may also be logical groups within an atlas, and all layers in a group can be selected for viewing by clicking on the group name.

Layers available from the selected WMS are shown on the Services panel. The initial default list is the full list from MicroImages' web site.

This button opens a panel so you can choose a server from this list of reliable servers identified by MicroImages. The layers advertised by the WMS of the selected server are added to those available on the Services tabbed panel. This panel remains open until you click on the x in the upper right.

Switch Locator zooming mode between selected/mouse defined and geographic name search.

Clicking on this icon pops in a panel that lets you specify how layers appear in the selected server list. You can turn legends on/off, choose whether layers selected for viewing remain identified by highlight, and turn on/off viewing abstracts if they are available.

Clicking on this icon opens the Modify Layer Properties window, which lets you specify the format for image retrieval, the format for Info requests, an Internet Explorer filter to use, and the percent opacity for layers from the selected server.

See the back of this page for information on buttons and fields across the top of the TNTmap Builder window.

Type location to zoom to in Locator View or select from list and click Go.

Clears all entries from the list.

Opens a window with the response to a GetCapabilities request returned from the selected server in XML.



Automatically launches TNTmap's version of the Google Maps API to overlay layers in the Main View panel. Order of overlay of GM map layer, satellite image layer, and WMS images can be specified.

Automatically launch Google Earth to use the layers in the Main View panel. GE then requests these layers as temporary Places directly from their WMSs.

Launch NASA World Wind to use the layers in the Main View panel. WW then requests and overlays these layers directly from their WMSs (Windows only).

Automatically launches TNTmap Open (TNTmap's version of the Open Layers API) and displays layers on the Layers panel.

Automatically opens a new TNTmap Viewer window to display layers in Main View panel.

The functions of these five buttons are described on the back of this page.

Opens TNTmap Save File window to save selected layers/ extents for future use in World Wind, Google Earth, Google Maps, TNTmap Open, TNTmap Viewer, or save as an OGC context document.

Refresh an already open TNTmap Viewer window using layers now in the Layers panel.

The buttons and fields across the top of the Builder window provide access to WMSs, local context files, and the settings for supported viewers. You can also assign a name to a URL you enter so it is saved and available for selection by name in this and future TNTmap Builder sessions from the Favorites panel either under *Saved Server URLs* or *Saved Context URLs*. The open feature for contexts and save feature for URLs are not available if running the web-application version.

Change Settings. Opens the Settings panel so you can so you can set parameters for use with Google Maps, Google Earth, World Wind, TNTmap Open, and TNTmap Viewer.

Open Local Context, Context List or Capabilities Document. Lets you browse to context or capabilities documents stored on your local drive or network (no URL) and adds the layers found to the Layers panel. Not available if running web-application version.

Enter the URL for a WMS, context file, or context collection you want to choose layers from.

Use capabilities from this URL. Gets the capabilities from the WMS at the URL to the left.



Clicking on the logo opens the home page for MicroImages web site in your browser.

Save to Favorites. This button opens a prompt window so you can provide a name to associate with the entered URL at the left, which can be for a WMS server, a context file, or a context collection. The name will then appear on your Favorites panel under either *Saved Server URLs* or *Saved Context URLs*, respectively. Not available if running web-application version.

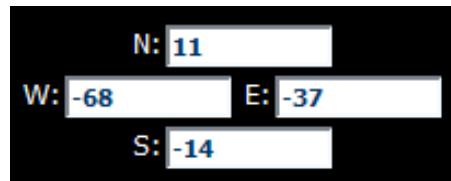
Icons Below Locator



Zoom Locator out.

Return Locator to global extents.

Zoom Locator in.



Shows/hides the Manual Extents tool that lets you enter coordinates to define the area shown initially in the viewer of your choice. The TNTmap Builder window is expanded as necessary to show the coordinate fields (above) and shrinks when they are hidden.

Click on this icon to draw out a box on the Locator image to define the area to be shown initially in the viewer of your choice. After the box is drawn, the cursor resumes its zoom in functions.

