

The 3D MetroDEM™ of Manhattan is being provided courtesy of i-cubed and TGNNet, Inc. The sample data provided for Manhattan is only a small portion of the dataset available for the Island of Manhattan. For further information regarding this Manhattan MetroDEM™ or data for additional US and International Cities, please contact i-cubed at 1-800-4SATDAT or sales@i3.com.



Manhattan Data Layers

Raster Based Layers:

- Bald Earth DEM (with no building heights)
- Engineering DEM (building heights)

Vector Based Layers:

- Building Top Print and Footprint

Georeferencing:

Projection: UTM
Zone: 18
Datum: NAD83

Format:

Raster Based Layers - Grids


Vector Based Layers - ArcView Shapefiles

Basic Instructions for Loading Data into ArcView 3.2

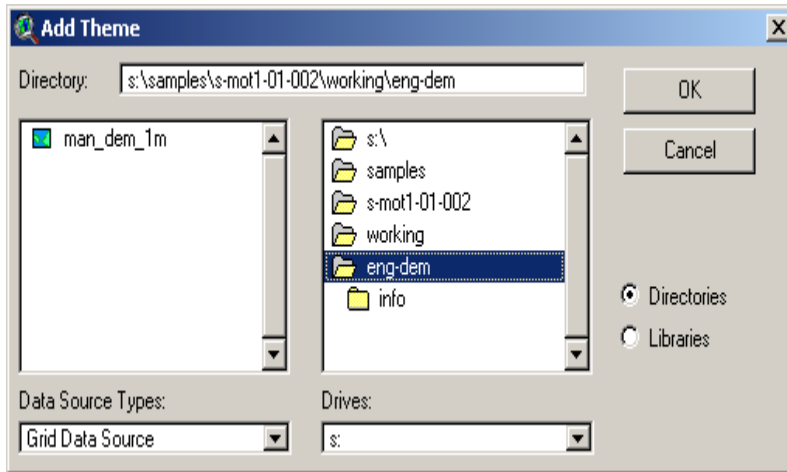
In the ArcView Window Double click on the Views Icon to create a new blank View



Click on the View window to make that view active. Load up a new theme by either

double clicking on the add theme button  or from the main menu select:
View → Add Theme

This launches the Add Theme Menu



In the Add Theme menu, browse your directory structure for the appropriate files.

Please notice the Data Source Type Option in the lower left hand corner.

Select 'Grid Data Source' to load raster based grid data.

Select 'Feature Data Source' to load vector based shapefiles.

Use the View → Add Theme menu to load up the following data layers:

Raster based Grid Data Sources: Bald Earth DEM
Engineering DEM

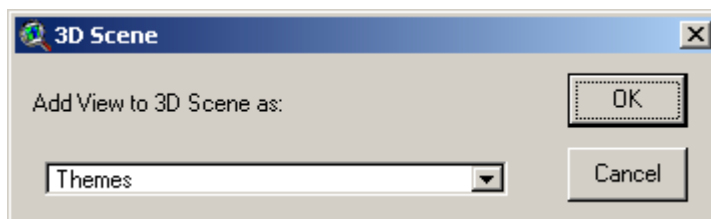
Vector based Feature Data Sources: Building Top Prints
Building Footprints

View Building Data in 3D

In order to view the Grid or Vector data in 3D you require the 3D Analyst extension. Turn on this extension by selecting from the main menu bar FILE → EXTENSIONS

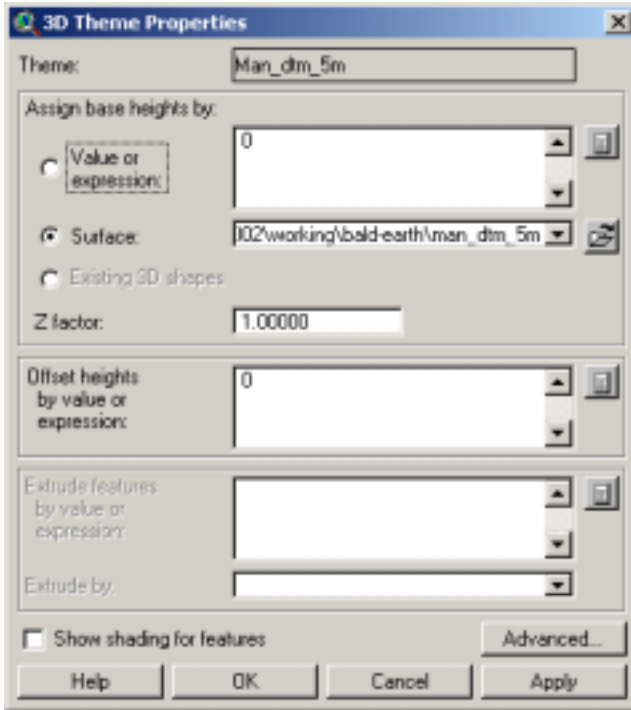
Scroll to find the '3D Analyst' Extension and make sure this box is checked.

- a. From the main menu select View → 3D scene



Select Themes and click OK

- b. In the View, select the Bald Earth DEM as the active theme by clicking on it:
- c. From the main menu select Theme → 3D Properties



- Select the 'Surface' option and make sure that the Bald Earth DEM is the selected surface

- Click 'Apply'

d. Return to the View, and Select one vector layer (at a time) – Theme Pull down – 3D Properties



- Select the Surface option and make sure the Bald Earth DEM is the selected surface

- Click the calculator icon to the right, select elevation

- Select 'using as absolute' for extrude by

- Click 'Apply'

Repeat this step for the other vector layer.

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- e. In the 3D Scene window, zoom and pan around to get different 3D Views of the building data.