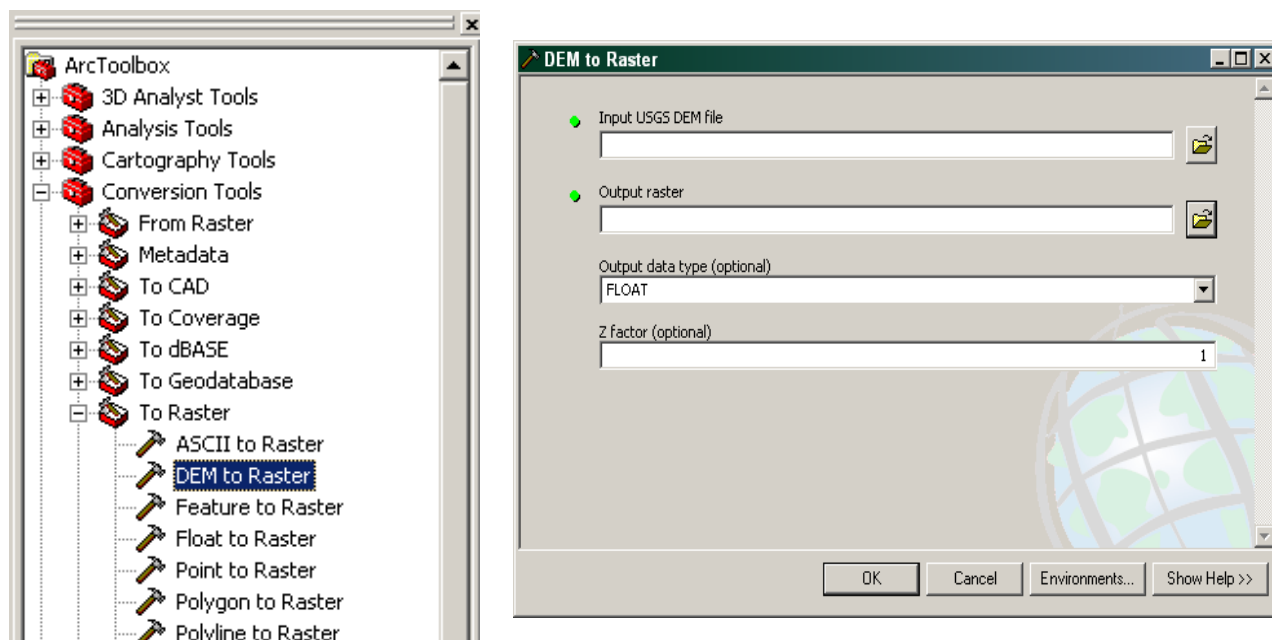




Importing Canadian Digital Elevation Data to ArcMap

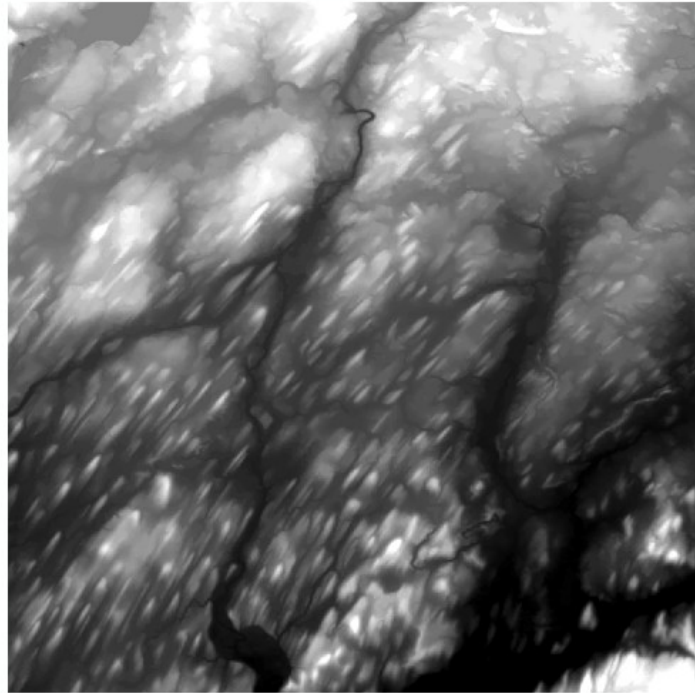
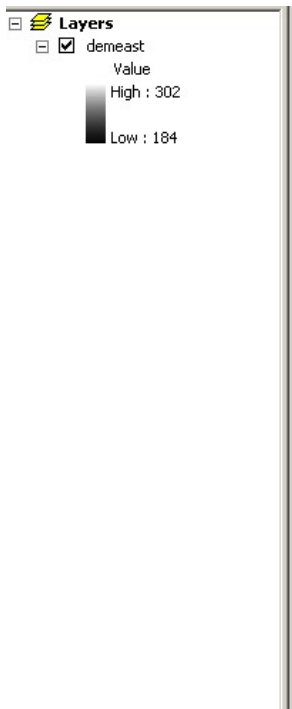
Import the DEM files into ArcMap

To do this, you should have a file downloaded from the GeoBase site in *.dem format. In ArcMap, open ArcToolbox and click on *Conversion Tools > To Raster*. Double-click the tool *DEM to Raster* to open its dialog.



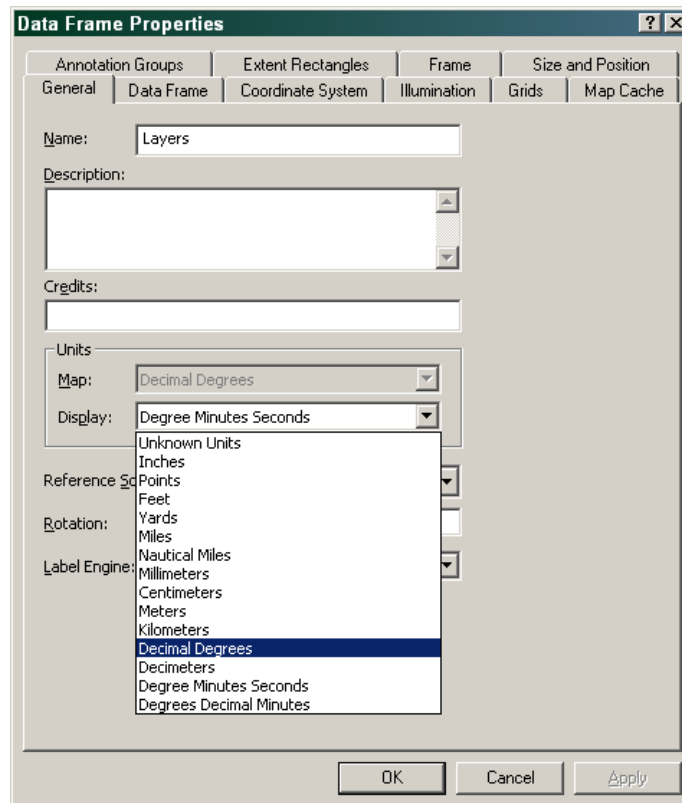
The dialog requests an input USGS DEM file, which is also the format used for Canadian Digital Elevation Data. Browse to the location of your DEM files and select an input. Choose your output location and enter a name for the converted file; remember that ArcGIS will not accept names with spaces or special characters, and try to keep the paths to your data as brief as possible. Note that using the path 'My Documents' will violate the no spaces rule.

The output data type may be left as float or integer, and the Z-factor may be left as 1. Once the inputs have been established to your satisfaction, click *OK* to process the data. The tool will complete and the DEM will display on your screen.

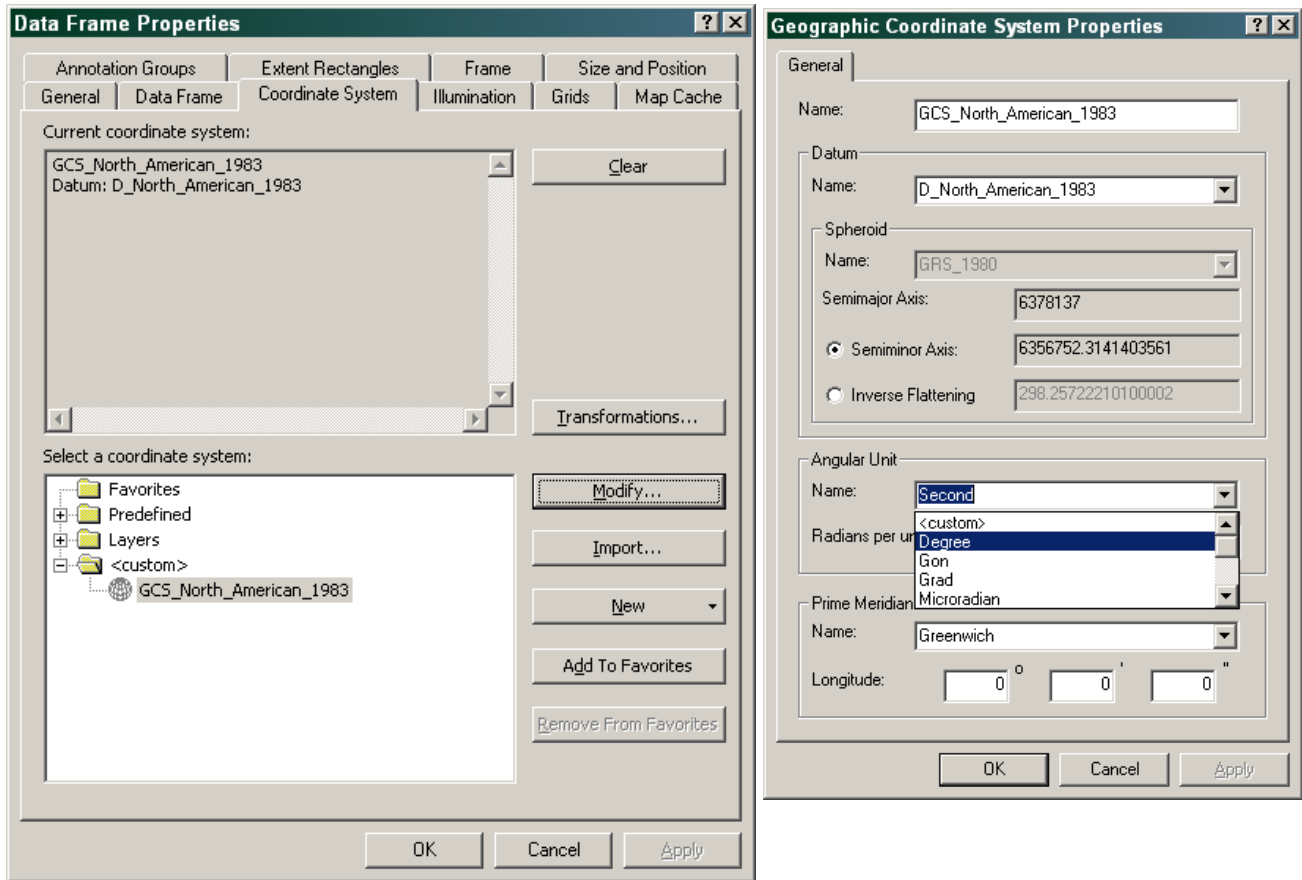


Correct the map coordinate system

The data will be displayed in unknown units; to change this, click *View > Data Frame Properties*. Under the *General* tab, use the dropdown list to change the *Display* text box to read *Decimal Degrees*.



Next, click on the *Coordinate System* tab. The current coordinate system is labelled GCS_North_American_1983. This means that the map is not projected, but in a geographic coordinate system. The data has been recognized as being NAD83. These are both correct. Press the Modify button so we can change the angular units to degrees.



Click the OK button. The DEM will likely disappear from view. To restore it, simply right-click on the layer name and choose *Zoom to Layer*.