Lidar Data Handler

The tools in this ArcMap extension are designed to help manipulate and display points and grids. Although designed with digital elevation models (DEMs) and lidar data in mind, many of the tools can also be used with other kinds of data. Data formats that can be imported or exported are FLT, TIFF, ASCII and SHP. The Spatial Analyst extension in ArcMap is required to run the Lidar Data Handler. This extension will not work in ArcGIS 10.

Activating the Lidar Data Handler in ArcMap

1. Unzip the downloaded file to a temporary location.
2. Run the setup program to register the extension and install the new functionality to ArcMap.
3. Start ArcMap.
4. From the **Tools** menu, select **Extensions**. In the Extensions window, activate the checkbox for the **LIDAR Data Handler** entry.
5. Close the Extensions window.
6. From the **View** menu, select the **LIDAR Data Handler** toolbar.
7. A new toolbar called **LIDAR Data Handler** will be available for the ArcMap project.

Tools available in Lidar Data Handler

- **Data Loader** allows users to rename and load data files downloaded from the Digital Coast into a map document within ArcMap.

- **Apply LYR File Symbology** applies the symbology stored within a layer file to data layers within the active data frame that are the same type.

- **Apply Symbology** applies the symbology from a selected layer file within the active data frame to other data layers within the data frame that are the same type.

- **Grid Profiler** creates profiles or transects across selected grid themes.

- **Grid Subtractor** subtracts one grid from another.

- **Cut/Fill Calculator** is disabled for ArcMap versions newer that 3.x because of invalid results returned from the "cut/fill" command in ArcGIS. It calculates volume and area gained and lost from a difference grid (such as one calculated by Grid Subtractor).

- **Grid Clipper** clips a grid by a selected polygon theme or graphic. This can be useful for calculating differences for a small section of a grid.

- **Graphic to Shape** converts a selected graphic (perhaps one used to clip a grid) to a polyline or polygon theme.