Export Data to Google Earth

You can import export layer data or entire maps to Google Earth by converting them into KMZ or .KML files. **.KML** is the file type used by Google Earth to display map information. When you use the Conversion tools to export a map or layer to .kml format, you are saving the chosen files into a file format readable by Google Earth.

Contents

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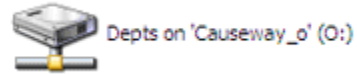Environmental Studies and Sustainability
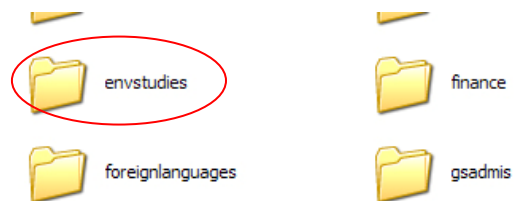x 3349
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Copy Data Files to the Desktop

To complete this tutorial, you will need to copy the **Geocoding** folder from the **O:\envstudies\GIS Tuorials** folder to the desktop of your computer. If you have done this already, skip to the next section, **Start a New Map Document.**

1. Go to the **Start** menu

2. Click **My Computer**

3. Double click on the **O:** Drive

4. Folders are listed alphabetically by department acronym. Double click on the **envstudies** folder.

5. Double click on the **GIS Tutorial** folder. Inside you will see the **NJ-MedIncome** folder.

6. Right click on the **NJ-MedIncome** folder, and choose the **Copy** option.

7. Close the **GIS Tutorial** window.

8. Right click anywhere in the blank, blue space on the **Desktop**. Choose the **Paste** option. You should now see the **NJ-MedIncome** folder on your **Desktop**.

Open the File to Export
1. Open **ArcMap.**
2. Choose the button for **An Existing Map:** and choose **Browse for Maps…**
3. Open the map of median income in New Jersey from **Desktop\NJ-MedIncome \NJ-MedIncome.mxd**
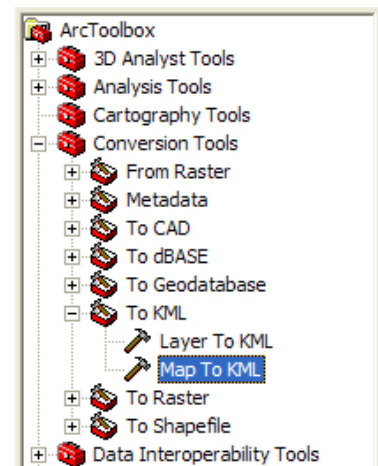
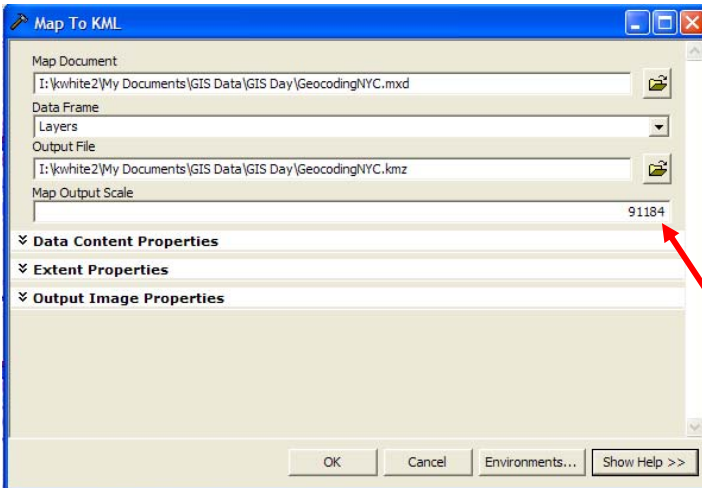## Repairing Data Sources for Copied or Moved Map Layer Files

When you move data for a **Map Project** by copying it or changing its location, the file paths that the map reads for the data become invalid. **ArcMap** indicates a broken data link with red exclamation marks next to **Map Layers** in the **Table of Contents**. File paths can be fixed by repairing the **Data Source** using the following steps.

1. Right click on the name of the **NJ Cities** layer. In the pop-up menu, choose **Data → Repair Data Source**. The **Data Source** dialog box will appear.

2. In the **Look In:** menu of the **Data Source** dialog box, navigate to **I:\YourUserName\Dekstop\NJ-MedIncome\UnitedStates**.

3. Inside the United States folder, highlight the **Cities.shp Map Layer**.

4. Click **Add**.

5. Repeat steps 2 - 4 for all of the files that need **Source** repair.
   a. **New Jersey Counties** source is **I:\YourUserName\Dekstop\NJ-MedIncome\UnitedStates\Counties.shp**
   b. **New Jersey Census Tracts** source is **I:\YourUserName\Dekstop\NJ-MedIncome\centrt2000\centrt2000.shp**

6. **Save** your **Map Project** to maintain the repaired **Data Sources**.
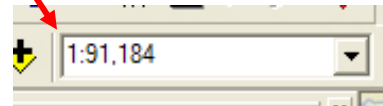
Convert the Map File using Conversion Tools

1. Click on the **ArcToolbox** icon.

2. Expand the **Conversion Tools** section of the **ArcToolbox** menu that appears.

3. Expand the **To KML** option to show the **Map to KML** function.
   a. **Map to KML** will export the entire map into .KML format.
   b. **Layer To KML** will export only chosen layers to .KML format.

4. Double click on **Map to KML**. In the dialog box that appears, fill in the fields:

   a. **Map Document:** use the browse button to find **C:\Documents and Settings\YourUserName\Desktop\NJ-MedIncome\NJ-MedIncome.mxd**.
   b. **Data Frame** should automatically set itself to **Layers.**

c. **Output File:** this is the name and place to which you will save your .KML file. Type in **C:\Documents and Settings\YourUserName\Desktop\GIS Day\NJ-MedIncome\NJ-MedIncome.kmz**

d. **Map Output Scale:** Look to the **Scale** list on the tools palette at the top of the window.

Copy the second number – it will be the larger of the two. Paste this number into **the Map Output Scale** field. Delete any periods or commas.

5. Click **OK**. The **Map to KML** progress indicator will appear in a new box. When the indicator says **Completed**, click the Close button.

6. Close **ArcMap**.

Open your .KMZ File in Google Earth

1. Open Google Earth.
2. Go to **File→Open→ C:\Documents and Settings\YourUserName\Desktop\NJ-MedIncome**
3. Click **NJ-MedIncome.kmz**
4. Click **Open.**
5. The map will be overlaid with your file and the globe will spin to center New York/New Jersey. Zoom in using the **Zoom slider** to magnify the map to the desired scale to see the median income information on the map. You can click on the points representing New Jersey Cities to activate a popup box that will display the city name.