

## Image Analysis for ArcGIS FAQs<sup>1</sup>



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### How Do I Define the Projection of an Image?

Use ArcCatalog or ArcToolbox to define the projection of an image that has been imported using the Generic Binary importer. Although you can use either ArcCatalog or ArcToolbox to perform this task, this document describes only how to use ArcCatalog to define the projection and coordinate system of an image.

### What You Will Need and Other Assumptions

- An ERDAS Imagine Image, imported using the Generic Binary importer, that is georectified but does not have a defined map projection and coordinate system
- Use caution when defining the projection and coordinate system info for your image (e.g., make sure you put the correct map parameter values in the correct places!!)

### Overview of Steps

1. Use the Raster Dataset Properties dialog in ArcCatalog to define the projection of your image (Spatial Reference).
2. Specify the required projection and coordinate system parameters using the Spatial Reference tab.
3. Apply the projection and coordinate system definition to your image.
4. Inspect the results.

### Step-by-Step Example

1. Start ArcCatalog from your Desktop, or on the Windows Taskbar click **Start | Programs | ArcGIS | ArcCatalog**.
2. Navigate to and select (**Left-click**) the image that requires a projection and coordinate system defined.
3. Make a **Single Right-click** on the image you have just selected and choose **Properties**.
4. Select the **Spatial Reference** tab in the **Raster Dataset Properties** dialog.
5. Click the **Edit** button just below the **Projection** field.
6. From the **Spatial Reference Properties** dialog, click the **Select** button.
7. Navigate to and select the appropriate projection and coordinate system. Click **Add**.
8. Ensure the image has the correct projection and coordinate system information by viewing the **Name** and **Details** in the **Spatial Reference Properties** dialog.

<sup>1</sup> Produced by the USDA Forest Service RSAC ( <http://fsweb.rsac.fs.fed.us> ). A Forest Service version of Image Analysis for ArcGIS was used to develop this reference document. No warranty is made as to completeness or accuracy.

9. Select **Apply**, and then **OK**.
10. Select **OK** to close the **Raster Dataset Properties** dialog.
11. Inspect the results.