

Demonstration Video

Didger 4 – Part 3

Projection and Datum Conversion

PART 3

1. Introduction
 2. Importing Data in One Projection
 3. Converting Data to Another Projection
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1. Welcome to Golden Software's demonstration video for Didger 4 – Part 3. In this demonstration I'll be covering the topic of importing data with a projection and converting the projection.
2. I'll first import some data in the original projection.
 - a. I'll go to **File | Import**, select an AutoCAD DXF file that I know is in UTM Zone 13N NAD27, and click *Open*.
 - b. In the **DXF Import Options** dialog box, I accept the defaults and just click *OK*.
 - c. In the **Define Import Options** dialog box, I'll be sure to choose *Projected Coordinates* and then I'll define the projection of the file as *UTM, Zone 13N*, with the *NAD 1927* datum. I'll make sure the *Input Data Units* are specified correctly and click *OK*.
 - d. Now I will import some data points in latitude/longitude coordinates. I go back to **File | Import**, select the data file, and click *Open*.
 - e. I'll make sure the *X* and *Y Coordinate* fields are specified correctly and click *Import*.
 - f. In the **Define Import Options** dialog, I select *Projected Coordinates*, and then I'll specify the current projection of the data file, which is *Unprojected Lat/Long*, with a datum of *North American Datum 1927*. Again, I'll be sure the *Input Data Units* are set to the correct units and I'll click *OK*. And the data points are now imported on top of my original vector file.
3. Now I have both the DXF file and the data points imported, and the projection is UTM. Now let's say I want to change the projection from UTM to Albers Equal Area Conic.
 - a. I'll go to **View | Change Projection**. In the **Change Projection** dialog box, I'll specify the *Category*, *System* and *Datum* that I want to change the project to. I will change the *Category* to *World/Continental Projections*, the *System* to *Albers Equal Area Conic*, and I'll also change the datum from *NAD27* to *NAD83*.
 - b. Because I'm changing the datum, it is also very important to then check the *Apply Datum Conversion* check box.
 - c. You can click the *Projection Settings* button and change any of the settings to be specific for your area. In this case, I'll change the *Latitude Origin* from 0° to 38° and the *Longitude Origin* from -105° to -118° .

- d. When you're done setting the projection parameters, click *OK* and the projection will be converted.

- e. This concludes my demonstration of converting the projection and datum of a Digger project.